

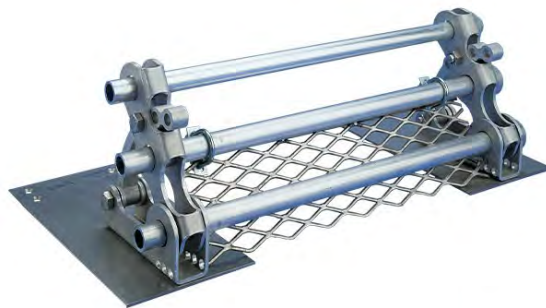
PP225 Pipe-Style Snow Guard Submittal Document Set

ROOF TYPES

- New / Existing Composition (Asphalt) Shingle
- New / Existing Slate
- New / Existing Synthetic Slate
- New / Existing Cedar Shingle

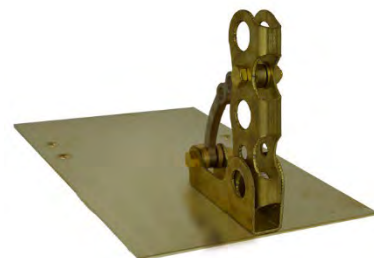
AVAILABLE MATERIALS

- Aluminum with Stainless Steel Base Plate (Aluminum accessories)
- Stainless Steel with Stainless Steel Base Plate (Aluminum or Stainless Steel accessories)
- Brass with Stainless Steel Base Plate (Brass accessories)
- Brass with Brass Base Plate (Brass accessories)



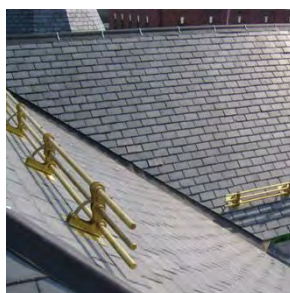
AVAILABLE FINISHES

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



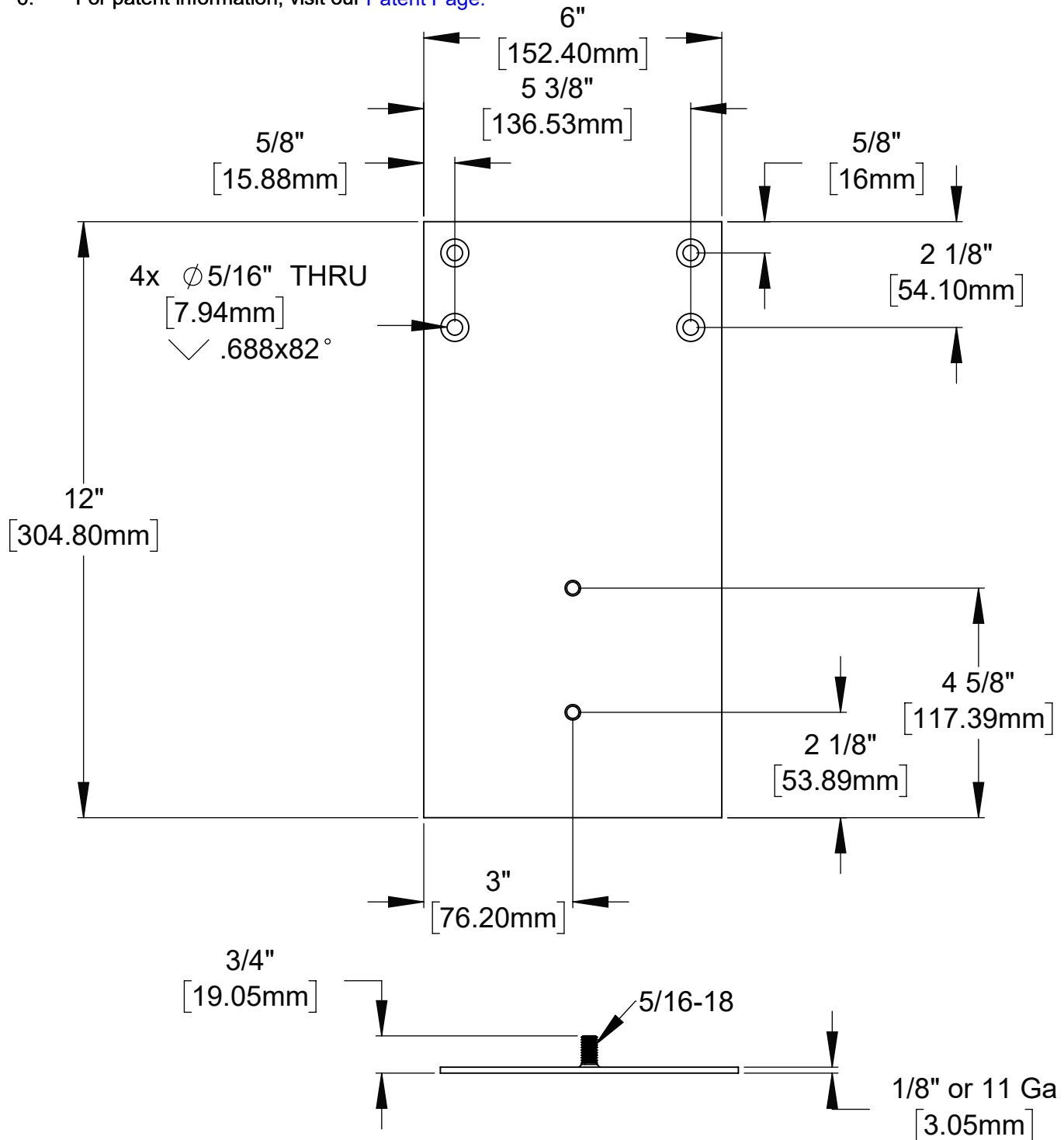
FEATURES/ADVANTAGES

- Height Adjustable - 39° of height adjustability for a customized setting on varying roof pitches
- Bracket is available in Aluminum, Brass or Stainless Steel
- Base Plate is available in Aluminum, Brass or Stainless Steel
- Bracket measures a substantial 6" L x 1 ½" W x 8 13/16" H (when extended to tallest, most upright position)
- Base plate available in multiple sizes
- Accepts 1" OD Pipe (Tubing)
- 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 6X12-200

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](#).



Note: Tolerance +/- 1/16"



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Scale: 1:3

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Cut Sheet - PP225 6X12 (ALL METALS)

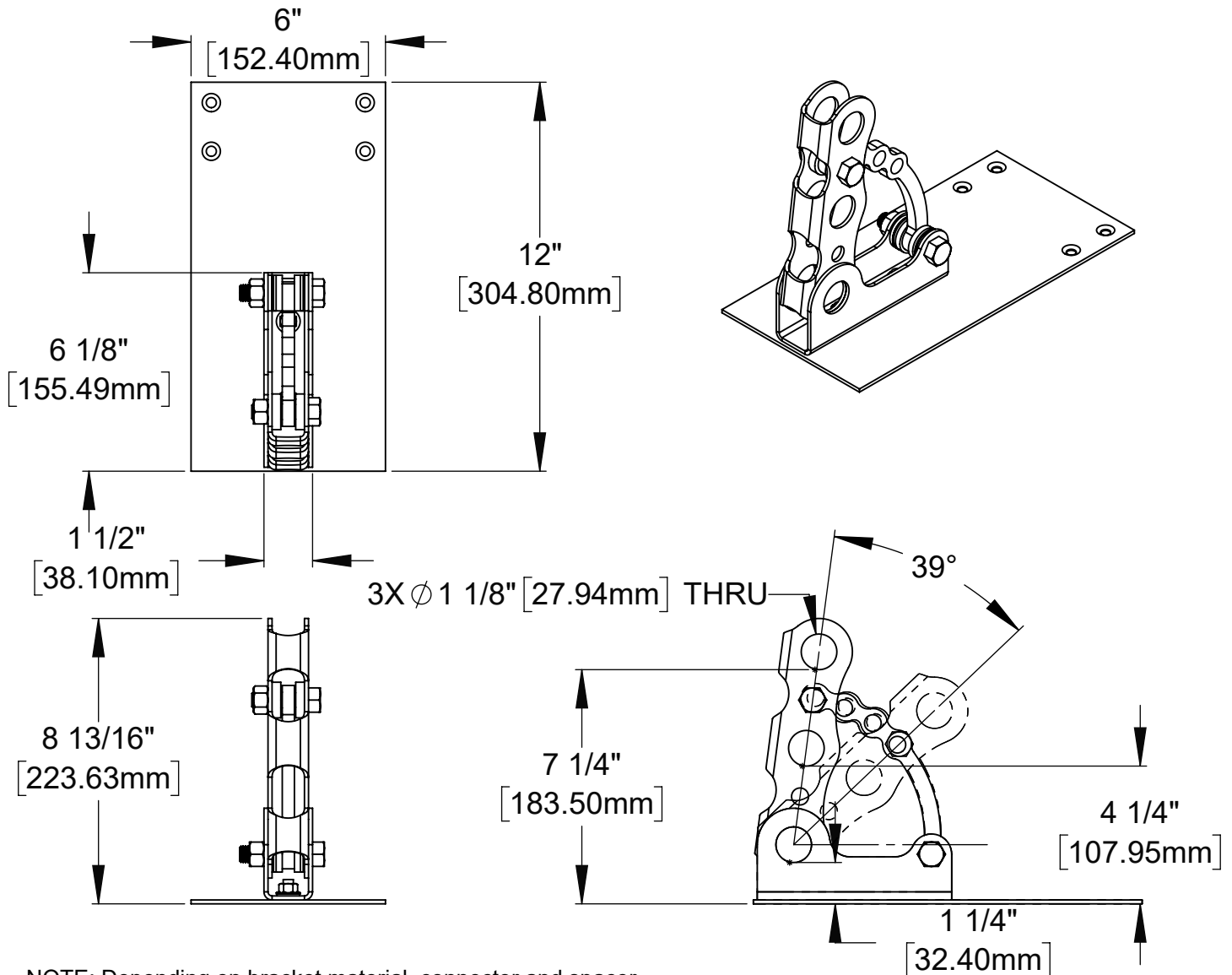
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3. Contact manufacturer for detailed layout.
4. Do not scale drawings.
5. Subject to change without notice.
6. For patent information, visit our [Patent Page](#).

Available Materials

- | | |
|---|---|
| <input type="checkbox"/> Aluminum Bracket,
Stainless Steel Base | <input type="checkbox"/> Brass Bracket,
Brass Base |
| <input type="checkbox"/> Stainless Steel Bracket,
Stainless Steel Base | <input type="checkbox"/> Brass Bracket,
Stainless Steel Base |

Available Finishes

- | |
|---|
| <input type="checkbox"/> Mill Finish |
| <input type="checkbox"/> Powder Coated
(Ral Tiger Drylac Powder
Coating Color Code:_____) |



NOTE: Depending on bracket material, connector and spacer components may differ. See specific bracket assembly sheet.



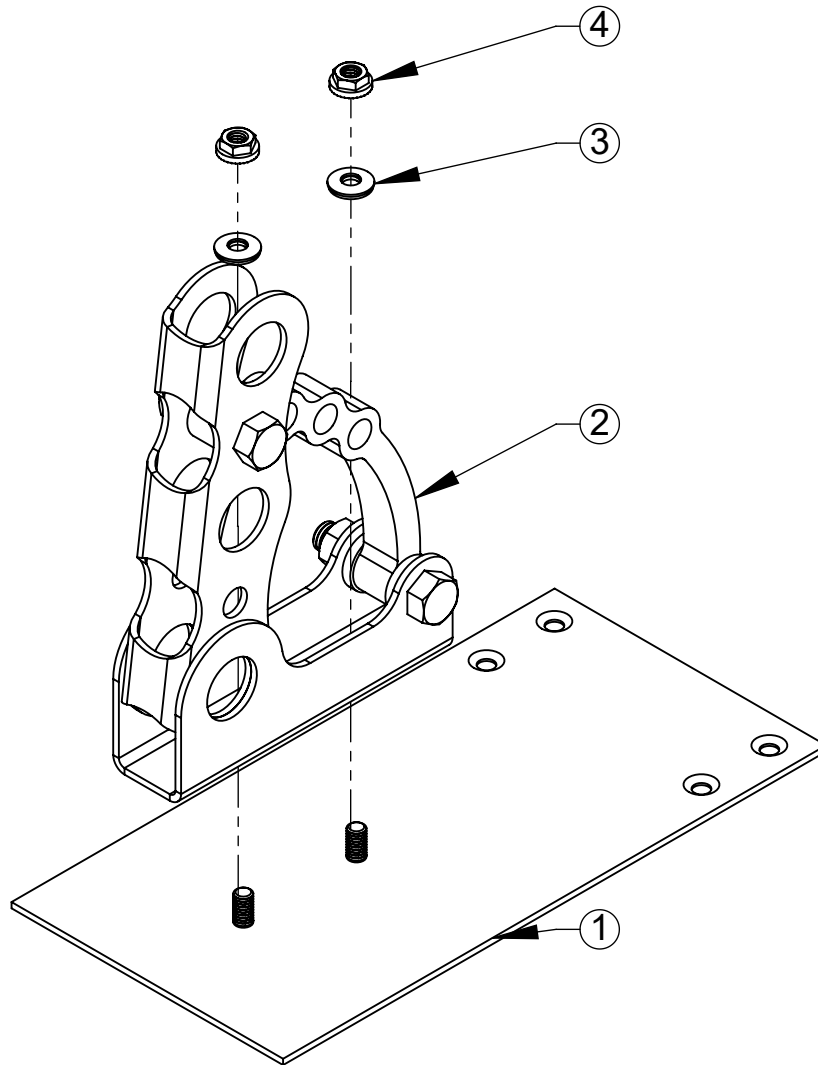
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Scale: 1:5

1/10/2023

Assembly Sheet - PP225 6X12

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](#).



ITEM NO.	PART CODE	DESCRIPTION	QTY
1	BASE 6X12-200	6X12-200 BASE PLATE	1
2	PP225-UPKIT	225 3PP BRACKET ONLY	1
3	W-NEO SS-.313	SS NEO WASHER .313 ID (INCLUDED W/ UPKIT)	2
4	N-FL SS-.313-18	SS FLANGE NUT .313-18 (INCLUDED W/ UPKIT)	2



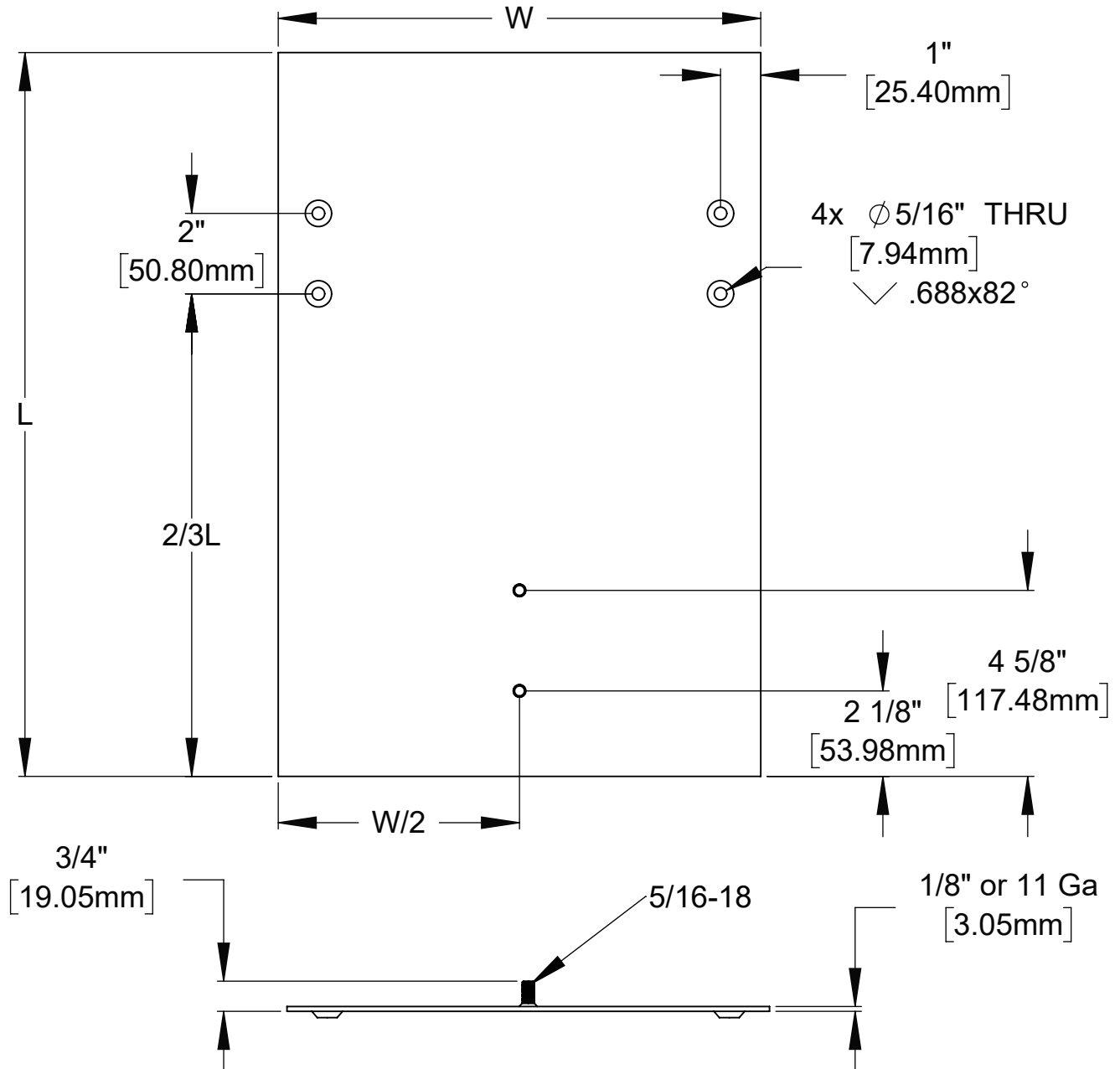
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Scale: 1:3

12/27/2022

Cut Sheet - BASE 8x12 OR LARGER-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](#).



Note: Specify Length (L) and Width (W)

Note: Tolerance $\pm 1/16"$



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Scale: 1:4

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Cut Sheet - PP225 (8"X12" Base or Larger) (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.
4. Do not scale drawings.
5. Subject to change without notice.
6. For patent information, visit our [Patent Page](#).

Available Materials

- | | |
|---|---|
| <input type="checkbox"/> Aluminum Bracket,
Stainless Steel Base | <input type="checkbox"/> Brass Bracket,
Brass Base |
| <input type="checkbox"/> Stainless Steel Bracket,
Stainless Steel Base | <input type="checkbox"/> Brass Bracket,
Stainless Steel Base |

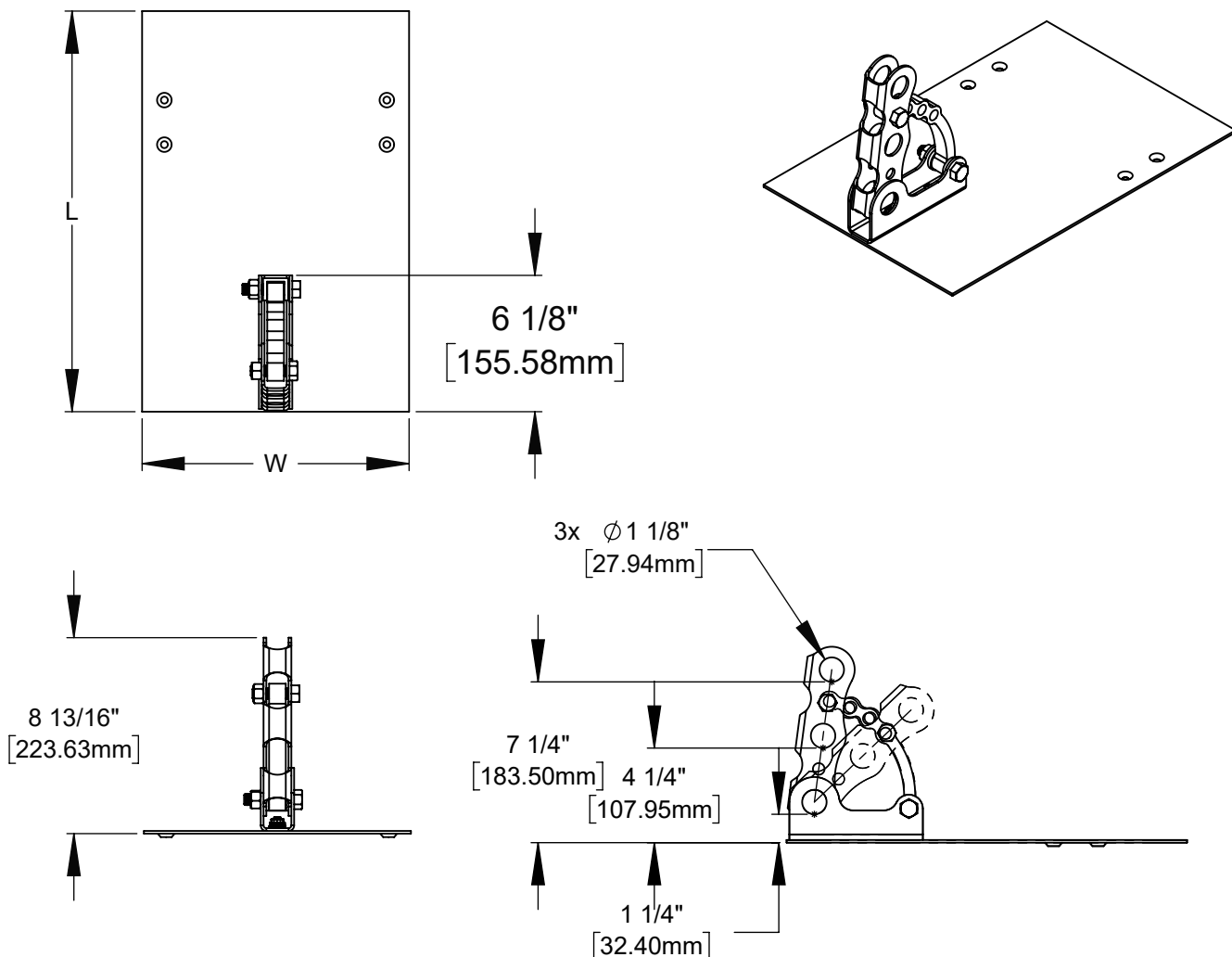
Available Finishes

- ☐ Mill Finish (Standard)
- ☐ Powder Coating
(RAL Tiger Drylac Powder
Coating Color Code: _____)

Base Plate Size

L= _____

W= _____



NOTE: Depending on bracket material,
connector and spacer components may differ.
See specific bracket assembly sheet.

Specify L and W to match slate size



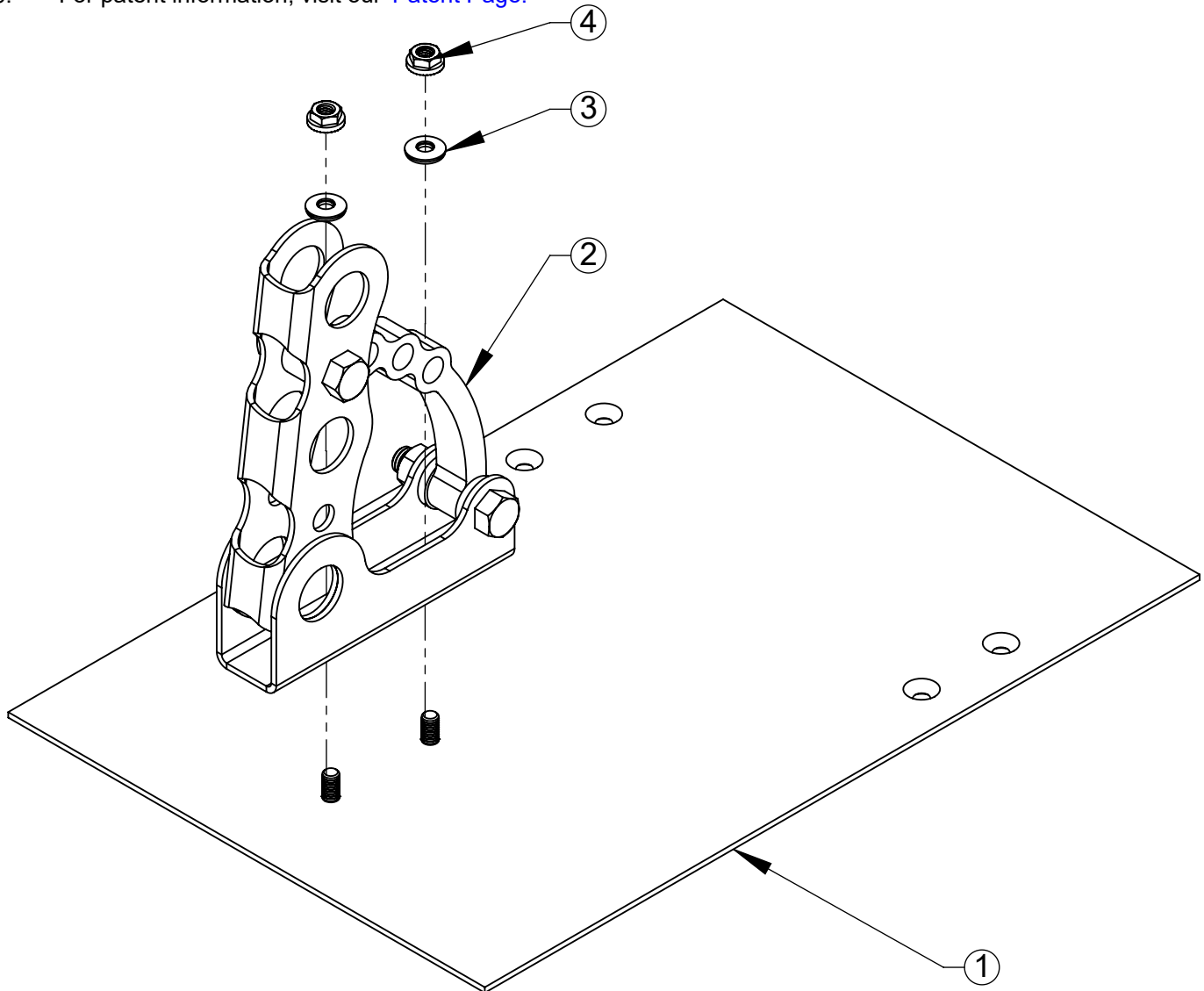
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Email: Info@alpinesnowguards.com

Scale: 1:8

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Assembly Sheet - PP225 8X12 OR LARGER

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](#).



ITEM NO.	PART CODE	DESCRIPTION	QTY
1	BASE-200	200 BASE PLATE	1
2	PP225-UPKIT	225 3PP BRACKET ONLY	1
3	W-NEO SS-.313	SS NEO WASHER .313 ID (INCLUDED W/ UPKIT)	2
4	N-FL SS-.313-18	SS FLANGE NUT .313-18 (INCLUDED W/ UPKIT)	2



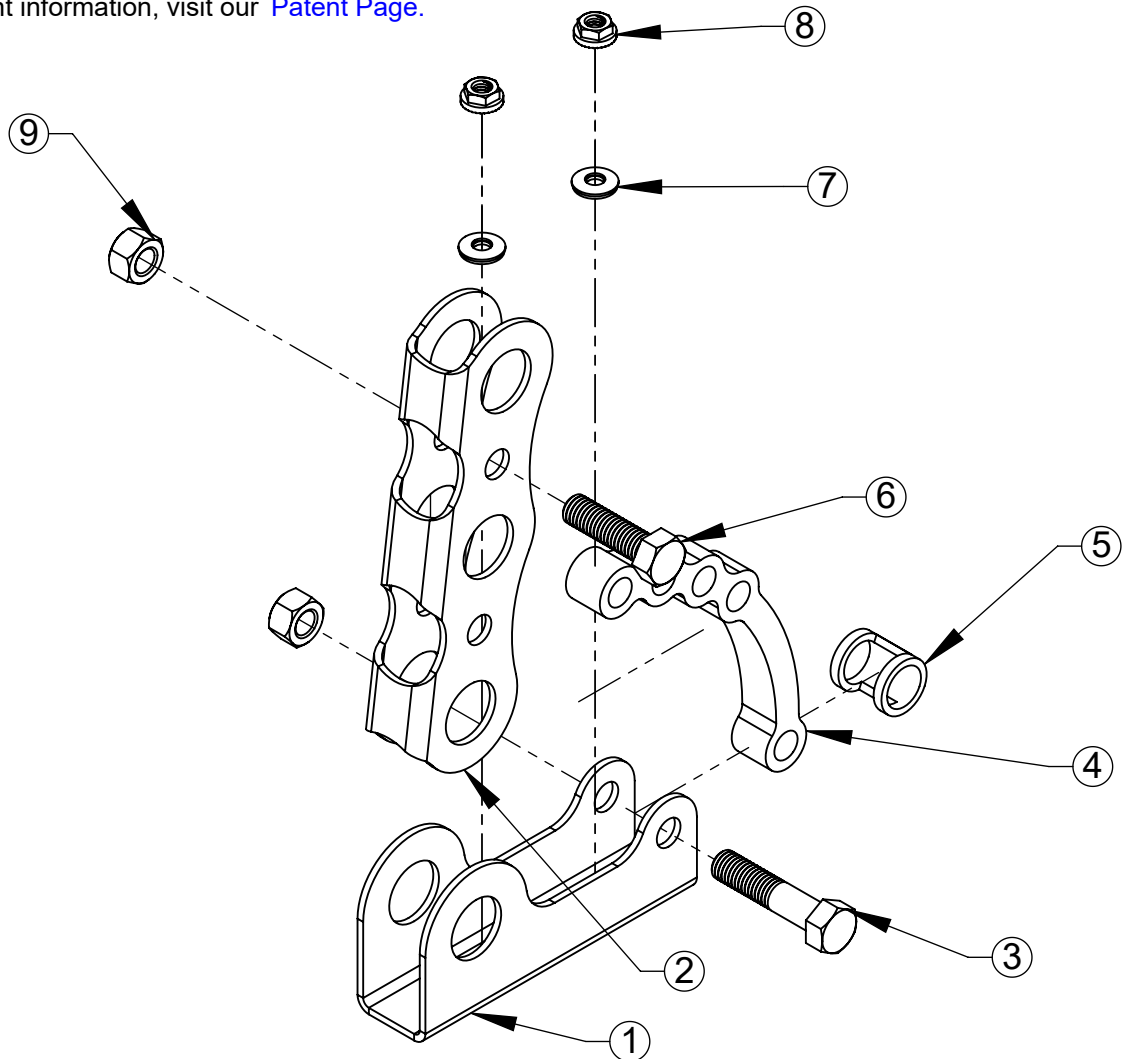
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Scale: 1:3

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Assembly Sheet - PP225-AL-UPKIT

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](#).



ITEM NO.	PART CODE	DESCRIPTION	QTY
1	BASE-PP225-AL	BASE FOR 225 AL UPKIT	1
2	UPRT-PP225-AL	AL 225 UPRIGHT FOR UPKIT	1
3	B-HX SS-.5-13X2.25	SS HEX BOLT .5-13X2.25	1
4	PP225 CONNECT AL	PP225 AL-CONNECTOR	1
5	UNIV SPACER AL-.78	SPACER 1.125 WIDE / .78 GAP-AL	1
6	B-HX SS-.5-13X1.75	SS HEX BOLT .5-13X1.75	1
7	W-NEO SS-.313	SS NEO WASHER .313 ID (INCLUDED IN POLY KIT GF NEO)	2
8	N-FL SS-.313-18	SS FLANGE NUT .313-18	2
9	N-HX SS -.5-13	SS HEX NUT .5-13	2



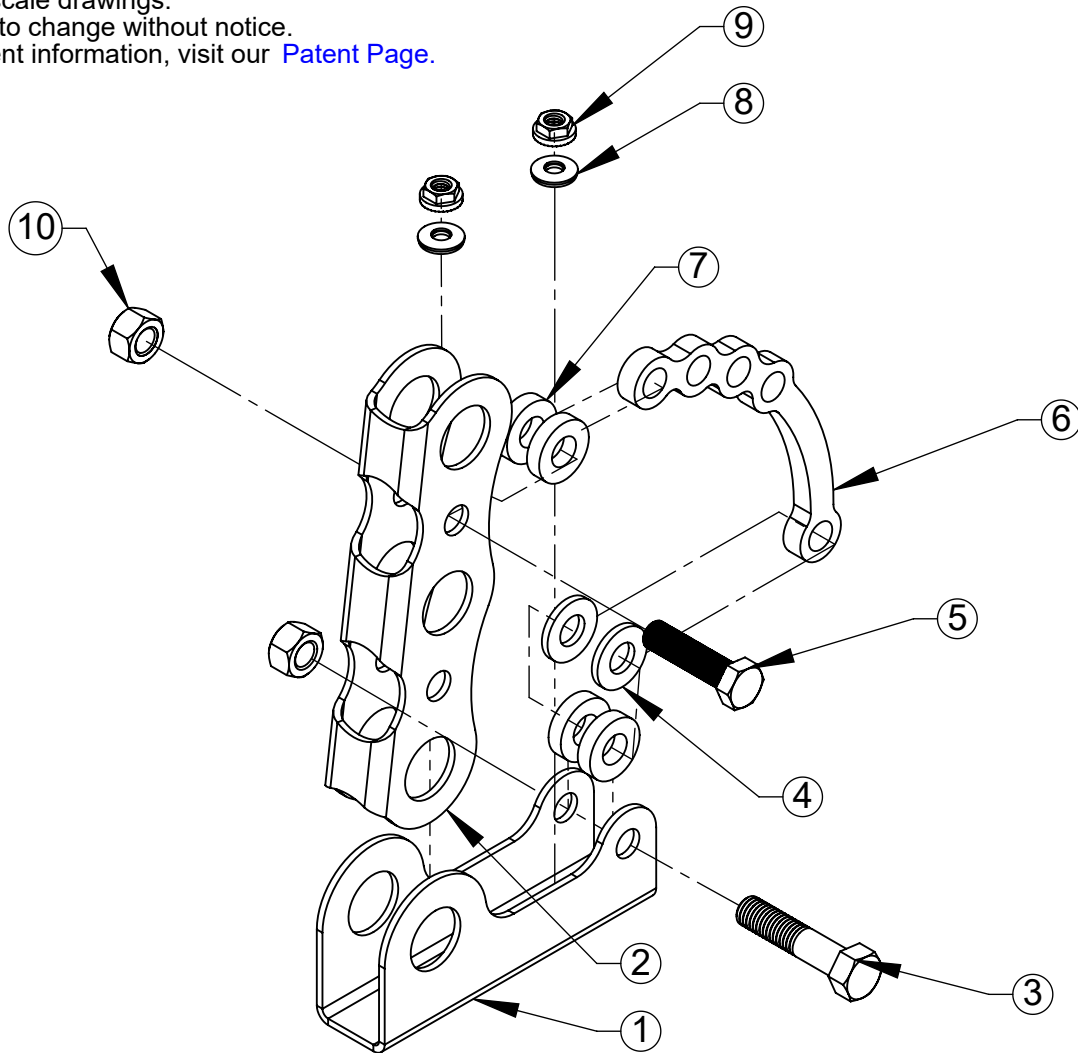
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Scale: 1:3

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Assembly Sheet - PP225-BR-UPKIT

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](#).



ITEM NO.	PART CODE	DESCRIPTION	QTY
1	BASE-PP225-BR	BASE FOR 225 BR UPKIT	1
2	UPRT-PP225-BR	BR 225 UPRIGHT FOR UPKIT	1
3	B-HX BR-.5-13X2.25	BR HEX BOLT .5-13X2.25	1
4	SPACER BR .125IN	BR 1/8" SPACER	2
5	B-HX BR-.5-13X1.75	BR HEX BOLT .5-13X1.75	1
6	PP225 CONNECT BR	PP225 CONNECTOR CAST BR	1
7	SPACER BR .25IN	BR 1/4" SPACER	4
8	W-NEO SS-.313	SS NEO WASHER .313 ID (INCLUDED IN POLY KIT GF NEO)	2
9	N-FL SS-.313-18	SS FLANGE NUT .313-18	2
10	N-HX BR-.5-13	BR HEX NUT .5-13	2



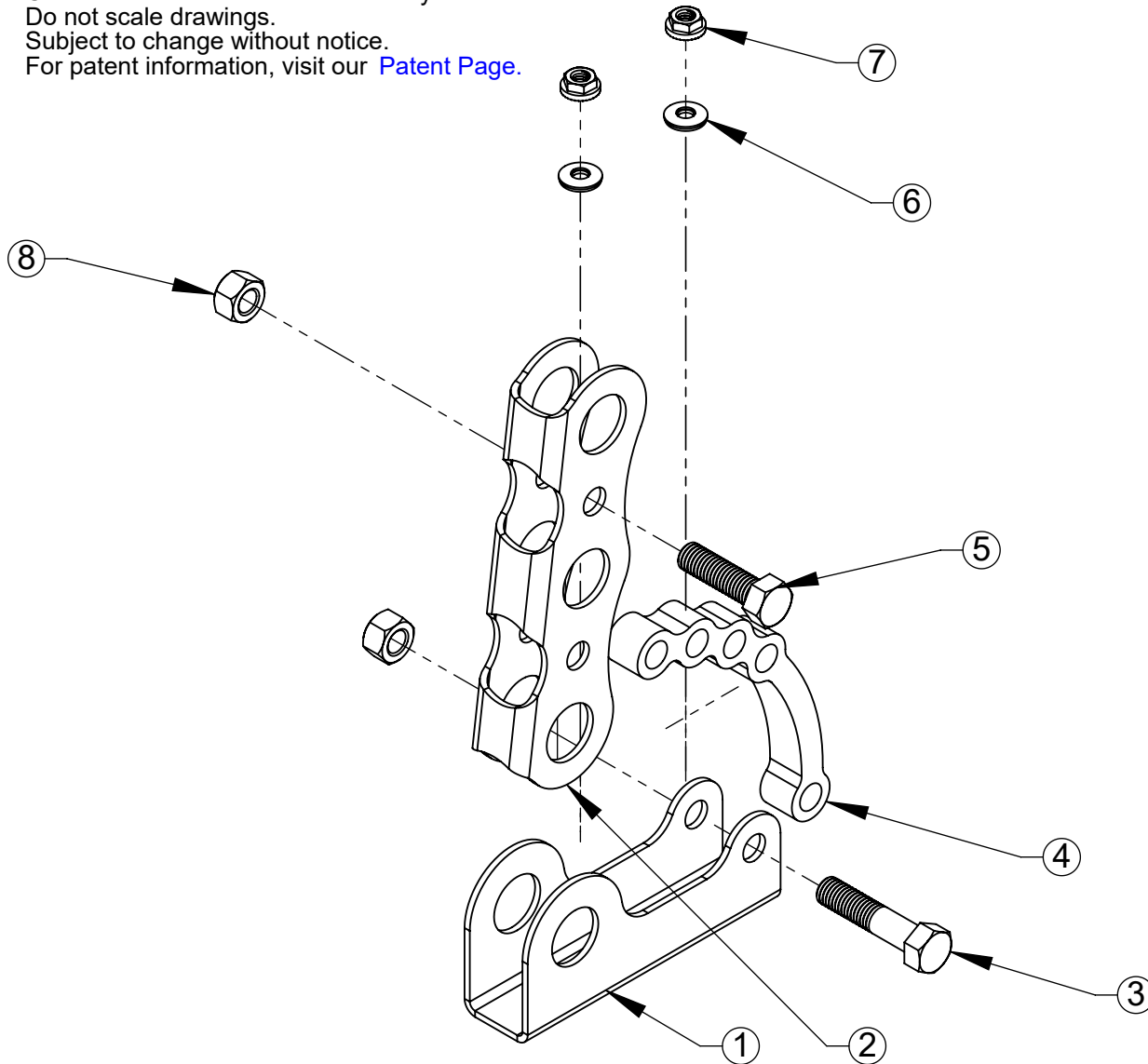
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Scale: 1:3

12/27/2022

Assembly Sheet - PP225-SS-UPKIT

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](#).



ITEM NO.	PART CODE	DESCRIPTION	QTY
1	BASE-PP225-SS	BASE FOR 225 SS UPKIT	1
2	UPRT-PP225-SS	SS 225 UPRIGHT FOR UPKIT	1
3	B-HX SS-.5-13X2.25	SS HEX BOLT .5-13X2.25	1
4	PP225 CONNECT SS	PP225 CONNECTOR CAST SS	1
5	B-HX SS-.5-13X1.75	SS HEX BOLT .5-13X1.75	1
6	W-NEO SS-.313	SS NEO WASHER .313 ID (INCLUDED IN POLY KIT GF NEO)	2
7	N-FL SS-.313-18	SS FLANGE NUT .313-18	2
8	N-HX SS-.5-13	SS HEX NUT .5-13	2



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Scale: 1:3

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PP225 (All Metals and Applications) Specification Sheet Snow Guards

PART 1 – GENERAL

1.1 SUMMARY

A. WORK INCLUDES

1. PP225 Snow guard that attaches directly to roof deck.
2. Coordinate with installation of the roof to assure proper placement of snow guards.
3. Provide appropriate snow guard and fasteners for roof system

B. RELATED SECTIONS

1. Division 1: General Requirements
2. Division 7: Thermal and Moisture Protection
 - a. Section 07600: Flashing and Sheet Metal MasterFormat 2016 07 60 00
 - b. Section 07310: Shingles MasterFormat 2016 07 31 00
 - c. Section 07320: Roofing Tiles MasterFormat 2016 07 32 00
 - d. Section 07720: Snow Guards MasterFormat 2016 07 72 00

1.2 SYSTEM DESCRIPTION

A. COMPONENTS

Base: A base plate with two 5/16"-18 x 3/4" flat head bolts welded into countersinks.

1. BASE SS 6X12-200 or BASE SS 8X12 OR LARGER

Bracket: An adjustable three pipe bracket assembly with two through holes in its base to accept 5/16" base plate studs. Bracket assembly components vary by bracket material – see assembly drawings for full component list.

1. PP225-AL-UPKIT (aluminum) or PP225-BR-UPKIT (brass) or PP225-SS-UPKIT (stainless steel)
2. W-NEO SS-.313, stainless steel and EPDM bonded washer
3. N-FL SS-.313-18, stainless steel flange nut

Fasteners: not included, to be compatible with chosen roof application and meet specified pull-out values as shown in load test data

1. To be of metal compatible with snow guards.
2. Fasteners should be selected for compatibility with roof deck.
3. Fastener strength should exceed or be equal to that of snow guard system

B. ACCESSORIES

1. PP75, tubing
2. Couplings
 - a. PP84, external
 - b. PP86, internal
3. PP65, end collars
4. PP56, end caps
5. PP95, ice flags, optional
6. PP98, ice screen, optional



PP225 (All Metals and Applications) Specification Sheet Snow Guards

C. DESIGN REQUIREMENTS

1. Spacing to be recommended by manufacturer or building engineer.
2. Install a minimum of 4 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.

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. BASE 6x2-200 or BASE 8x12 OR LARGER

1. Stainless Steel- 11 Gauge 304 Stainless Steel with two 5/16" 304 Stainless Steel bolts welded into countersinks.
2. Brass- 1/8" 260 Brass with two 5/16" 304 Stainless Steel Bolts welded into countersinks.

B. PP225-AL-UPKIT

1. 5000 Series Aluminum

C. PP225-BR-UPKIT

1. 260 Brass

D. PP225-SS-UPKIT

1. 304 Stainless Steel

E. W-NEO SS-.313

1. Stainless Steel and EPDM

F. N-FL SS-.313-18

1. Stainless Steel

2.3 ACCESSORY MATERIALS

A. PP75, tubing (choose one)

1. 6000 Series Aluminum
2. 304 Stainless Steel
3. 272 Brass

B. Couplings (choose one)

1. PP84, external
 - a. 6000 Series Aluminum



PP225 (All Metals and Applications) Specification Sheet Snow Guards

- 2. PP86, internal
 - a. 6000 Series Aluminum
 - b. 304 Stainless Steel
 - c. 300 Brass
- C. PP56, end caps (choose one)
 - 1. 304 Stainless Steel
 - 2. Brass Plated Stainless Steel
- D. PP65, end collars (choose one)
 - 1. 6000 Series Aluminum
 - 2. 304 Stainless Steel
 - 3. C230 Brass
- E. PP95, ice flags, optional (choose one)
 - 1. 6000 Series Aluminum 3" wide x length (as needed)
 - 2. 304 Stainless Steel
 - 3. 260 Brass
- F. PP98, ice screen (choose one)
 - 1. 304 Stainless Steel
 - 2. 260 Brass
- 2.4 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 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 for installation and layout.

Document Version 05.23.2023
07 72 53 Snow Guards



PP225 Snow Guard Installation Instructions

ROOF TYPES

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

Base Plate Installation - Composition Shingle

1. Place base plate on top of shingle and align downslope edge of base plate with downslope edge of shingle.
2. Fasten base plate to roof deck using a minimum of 4 fasteners.
3. Strip in top portion of base plate (which will be concealed below next course of shingles) using a material such as ice and water shield.
4. Continue installing shingles around and over base plate.

Base Plate Installation - Slate, Synthetic Slate or Cedar

1. Install base plate so that it replaces a slate, synthetic slate or cedar shingle.
2. Fasten base plate to roof deck using a minimum of 4 fasteners.
3. Continue installing shingles around and over base plate.

Bracket Installation

Aluminum Bracket (reference Assembly Sheet – PP225-AL-UPKIT)

1. Empty contents of bag onto work surface.
2. Build the bracket following the assembly drawing PP225-AL-UPKIT.
3. Apply thread lock to all bolts before tightening nuts to 45 inch-pounds.
4. Open assembly to expose holes in Base for 225 AL Upkit. Place bracket over threaded studs on previously installed baseplate.
5. Place one SS Neo Washer over each stud and press them down against bracket.
6. Tighten SS Flange Nut over each stud and tighten to 15 inch-pounds.
7. Install Pipes, Couplings, End Caps and End Collars (refer to Pipe-Style Installation Instructions). Ice Flags are optional.

Brass Bracket (reference Assembly Sheet – PP225-BR-UPKIT)

1. Empty contents of bag onto work surface.
2. Build the bracket following the assembly drawing PP225-BR-UPKIT.
3. Apply thread lock to all bolts before tightening nuts to 45 inch-pounds.
4. Open assembly to expose holes in Base for 225 BR Upkit. Place bracket over threaded studs on previously installed baseplate.
5. Place one SS Neo Washer over each stud and press them down against bracket.
6. Tighten SS Flange Nut over each stud and tighten to 15 inch-pounds.
7. Install Pipes, Couplings, End Caps and End Collars (refer to Pipe-Style Installation Instructions). Ice Flags are optional.



PP225 Snow Guard Installation Instructions

Stainless Steel Bracket (reference Assembly Sheet – PP225-SS-UPKIT)

1. Empty contents of bag onto work surface.
2. Build the bracket following the assembly drawing PP225-SS-UPKIT.
3. Apply thread lock to all bolts before tightening nuts to 45 inch-pounds.
4. Open assembly to expose holes in Base for 225 SS Upkit. Place bracket over threaded studs on previously installed baseplate.
5. Place one SS Neo Washer over each stud and press them down against bracket.
6. Tighten SS Flange Nut over each stud and tighten to 15 inch-pounds.
7. Install Pipes, Couplings, End Caps and End Collars (refer to Pipe-Style Installation Instructions). Ice Flags are optional.

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 05.23.2023
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



Chemistry






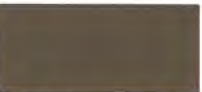


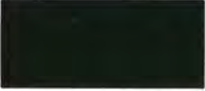





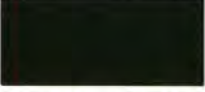


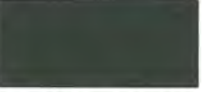





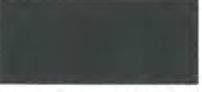




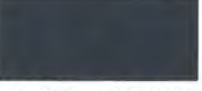



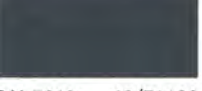

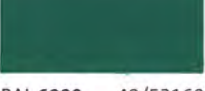
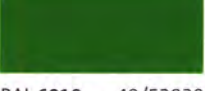
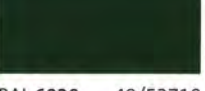
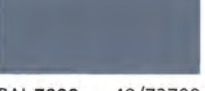
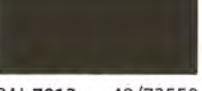
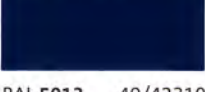
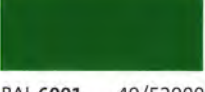
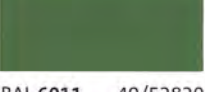
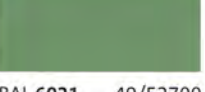
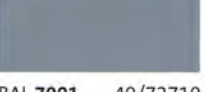
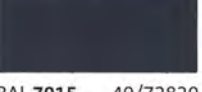
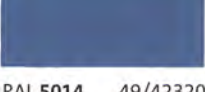
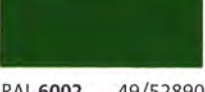
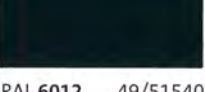
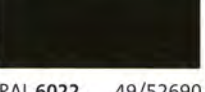
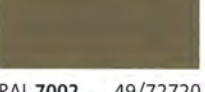
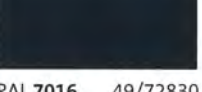
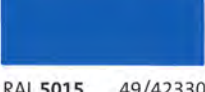
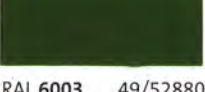
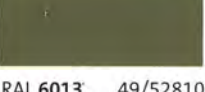
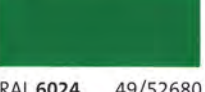
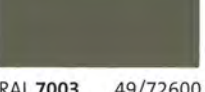
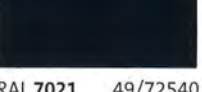

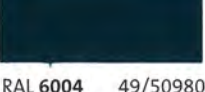
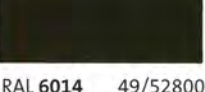
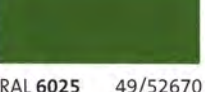
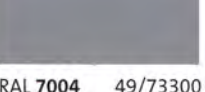
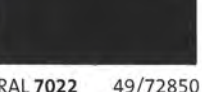


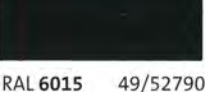

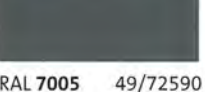
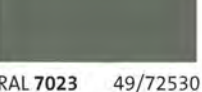
09 Polyester/Epoxy Hybrid
16 Acrylic Hybrid
28 Super Durable Polyester
TGIC (for approved applicators only)
39 Polyester TGIC
44 Polyurethane
49 Polyester TGIC
59 Polyester TGIC-Free
69 Epoxy
75 Fluoropolymer
(for approved applicators only)
89 Polyester/Epoxy Hybrid,
Low/Fast Cure



Color Group (starting with)

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

					
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
					
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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
					
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exterior

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