

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

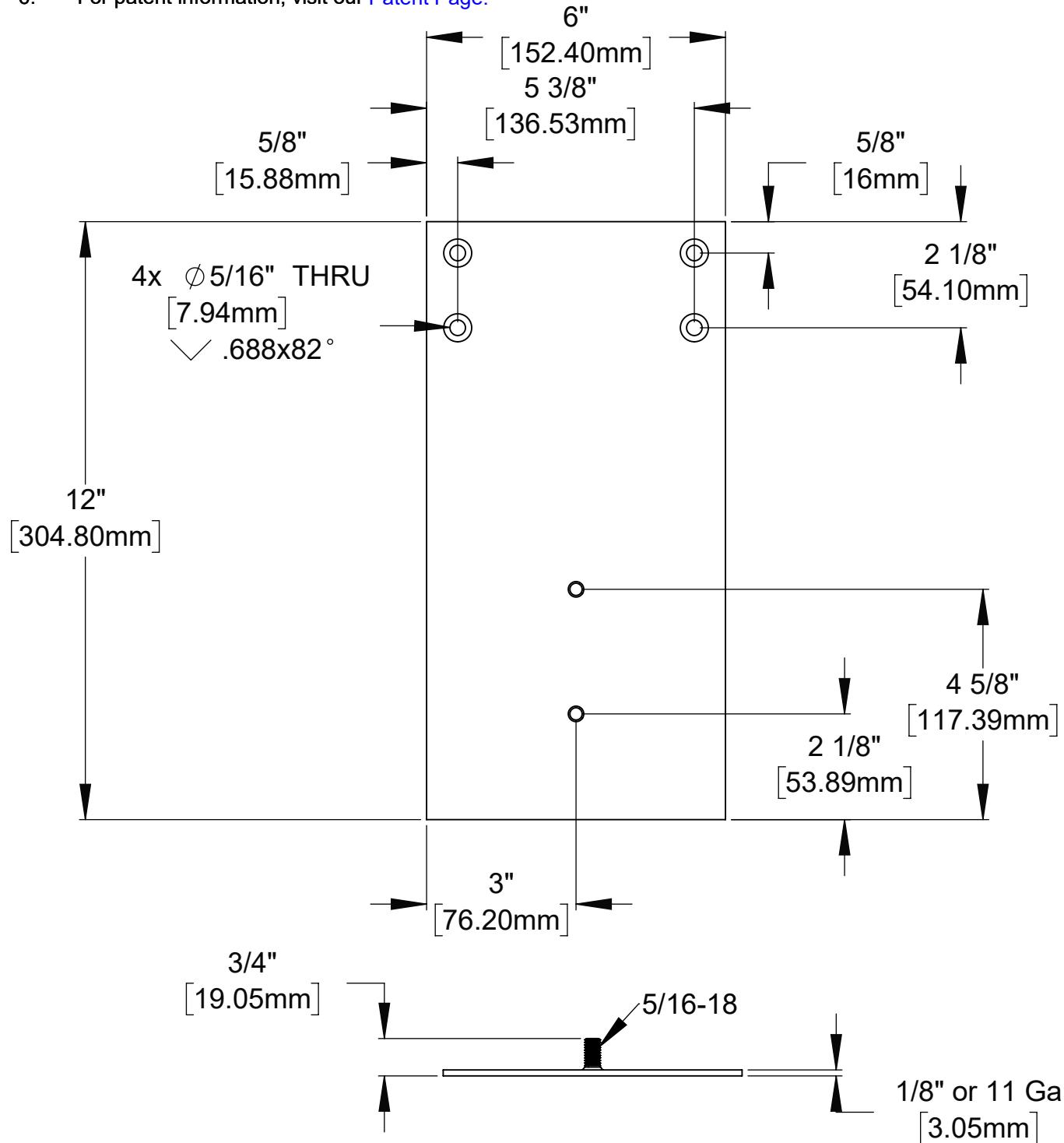
FEATURES/ADVANTAGES

- 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 $\pm 1/16"$



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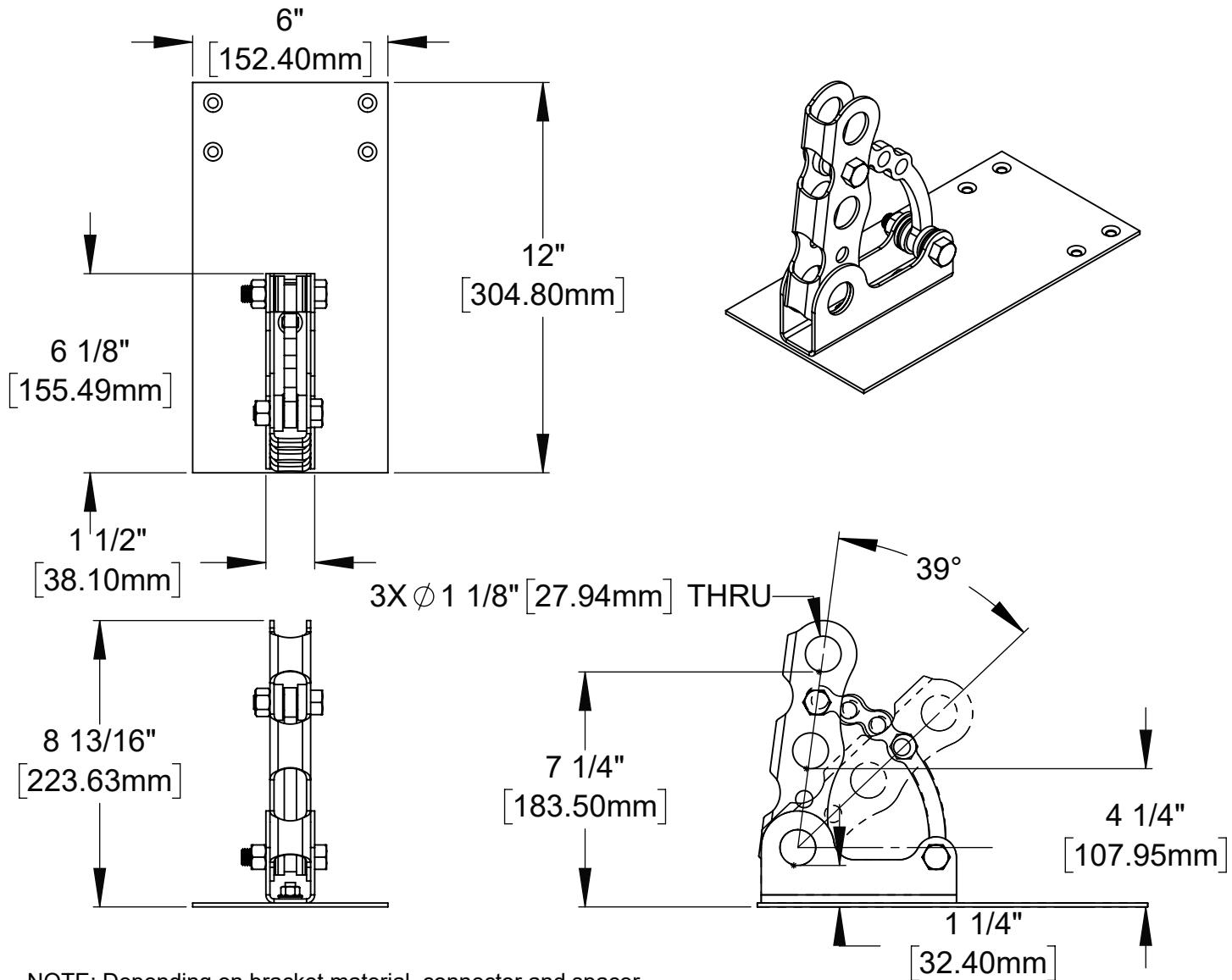
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12/27/2022

Cut Sheet - PP225 6X12 (ALL METALS)

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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Available Materials		Available Finishes
<input type="checkbox"/> Aluminum Bracket, Stainless Steel Base	<input type="checkbox"/> Brass Bracket, Brass Base	<input type="checkbox"/> Mill Finish
<input type="checkbox"/> Stainless Steel Bracket, Stainless Steel Base	<input type="checkbox"/> Brass Bracket, Stainless Steel Base	<input type="checkbox"/> Powder Coated (Ral Tiger Drylac Powder Coating Color Code: _____)



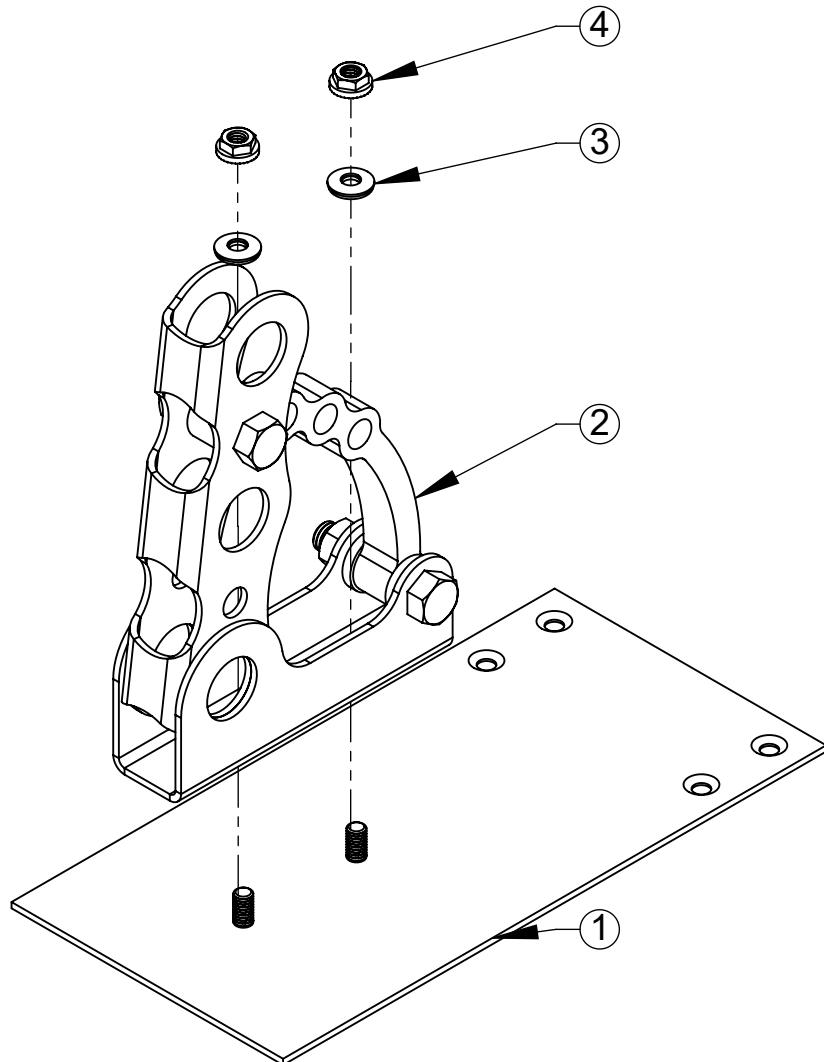
NOTE: Depending on bracket material, connector and spacer components may differ. See specific bracket assembly sheet.



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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



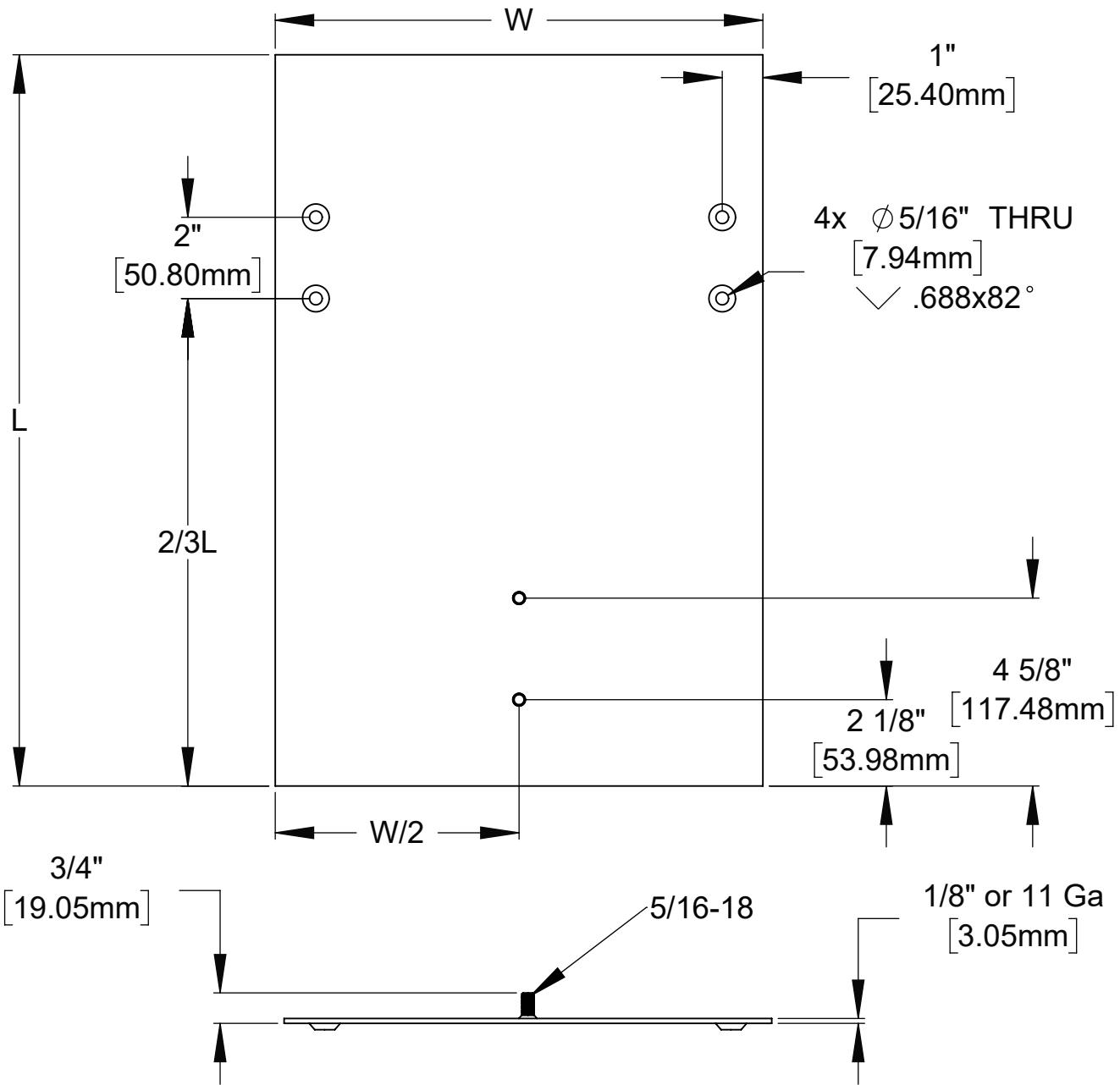
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Scale: 1:3

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

Note: Tolerance +/- 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](#).

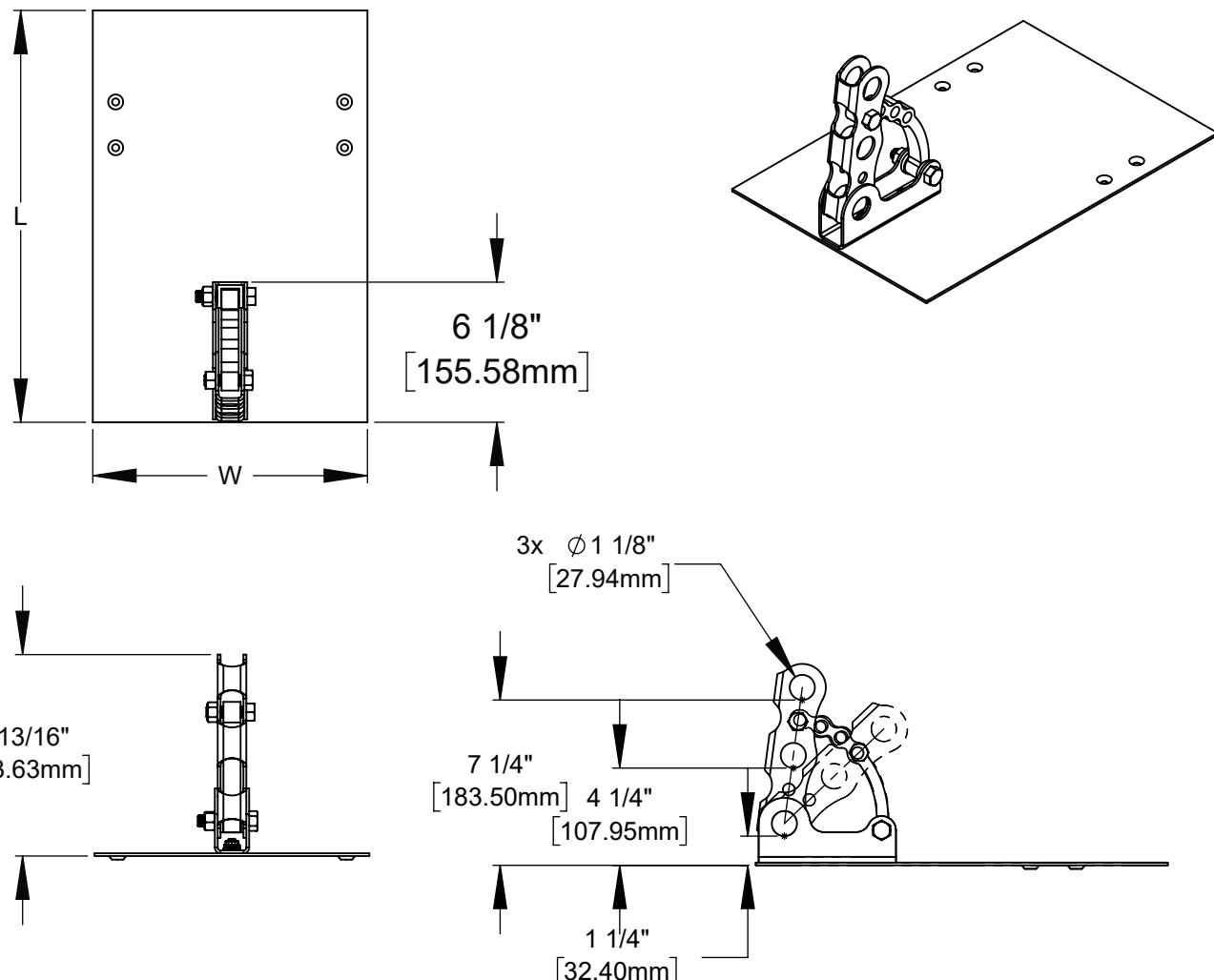
Available Materials

<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

<input type="checkbox"/> Mill Finish (Standard)	L= _____
<input type="checkbox"/> Powder Coating (RAL Tiger Drylac Powder Coating Color Code: _____)	W= _____

Base Plate Size



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

Specify L and W to match slate size



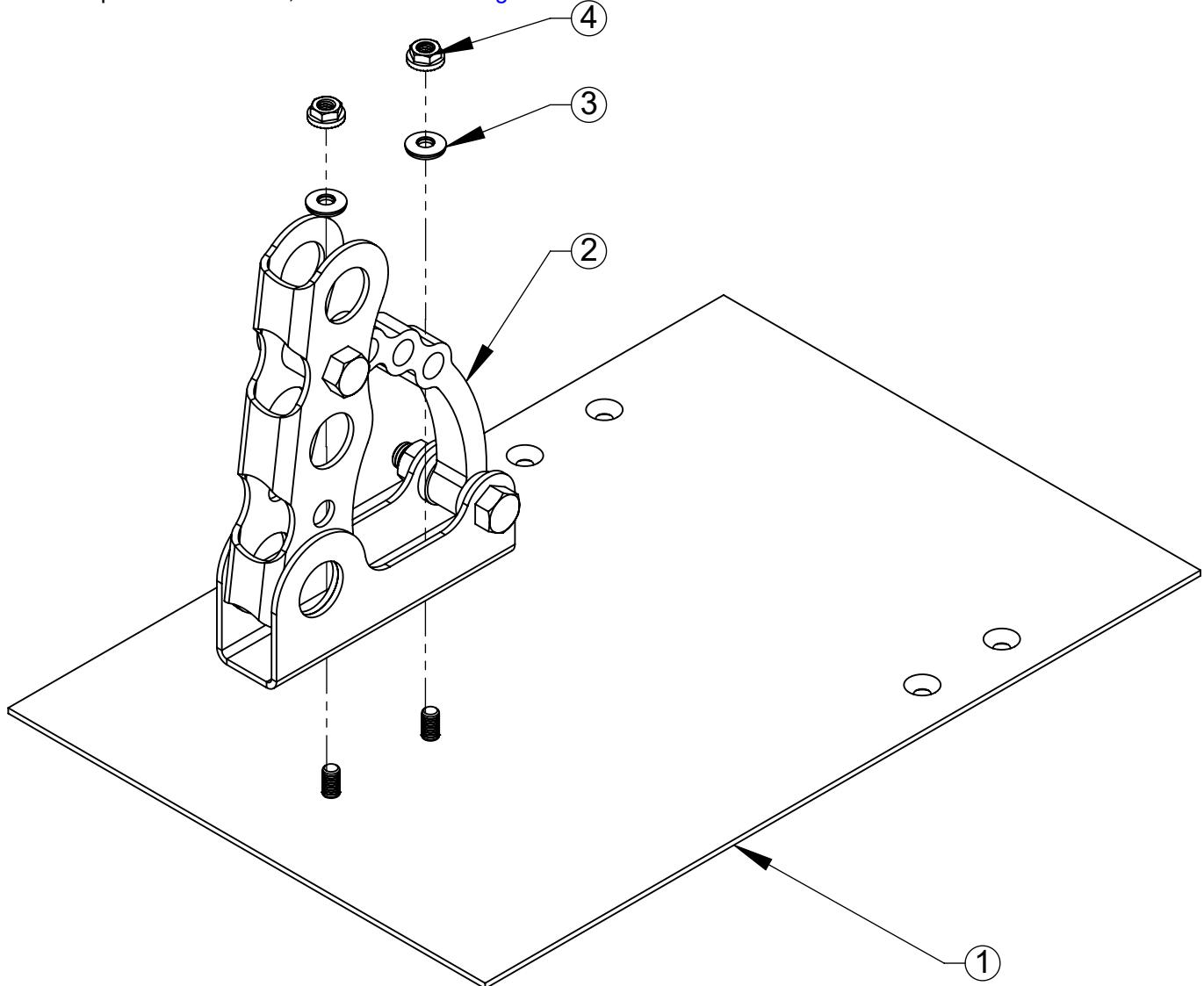
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Scale: 1:8

1/10/2023

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



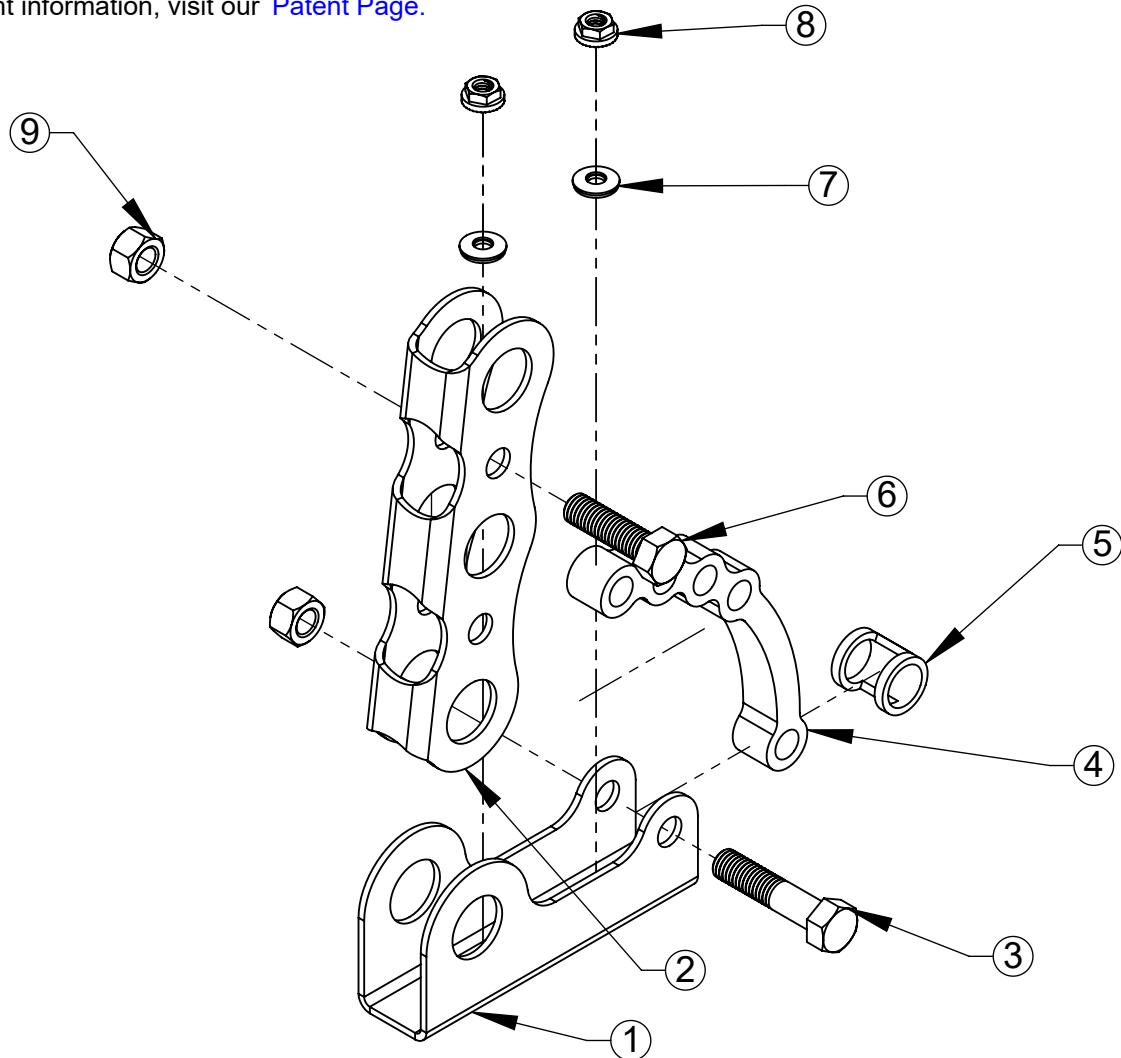
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Scale: 1:3

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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](#).



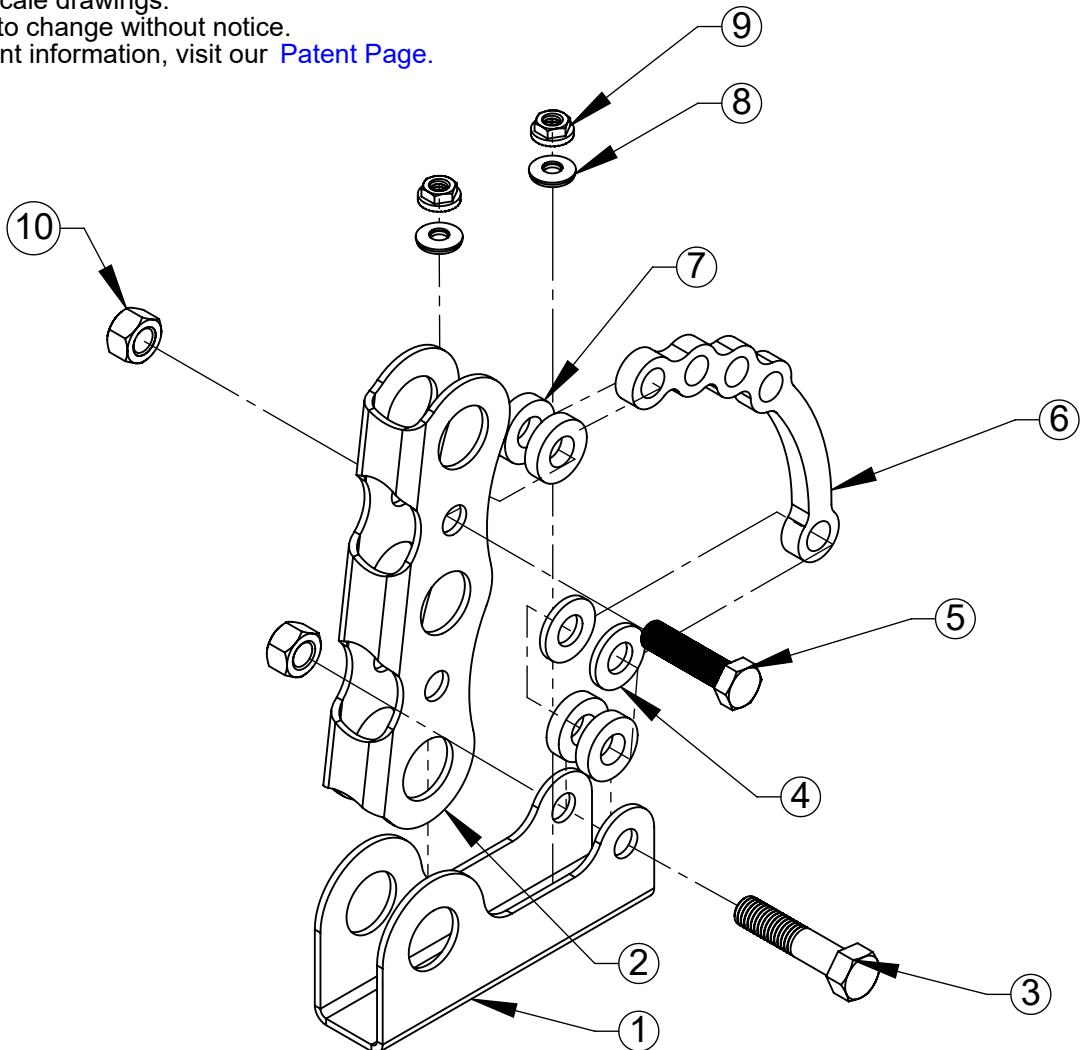
ITEM NO.	PART CODE	DESCRIPTION	QTY
1	BASE-PP225-AL	BASE FOR 225 AL UPKIT	1
2	UPRT-PP225-AL	AL 225 UPRIGHT FOR UPKIT	1
3	B-HX SS-.5-13X2.25	SS HEX BOLT .5-13X2.25	1
4	PP225 CONNECT AL	PP225 AL-CONNECTOR	1
5	UNIV SPACER AL-.78	SPACER 1.125 WIDE / .78 GAP-AL	1
6	B-HX SS-.5-13X1.75	SS HEX BOLT .5-13X1.75	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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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



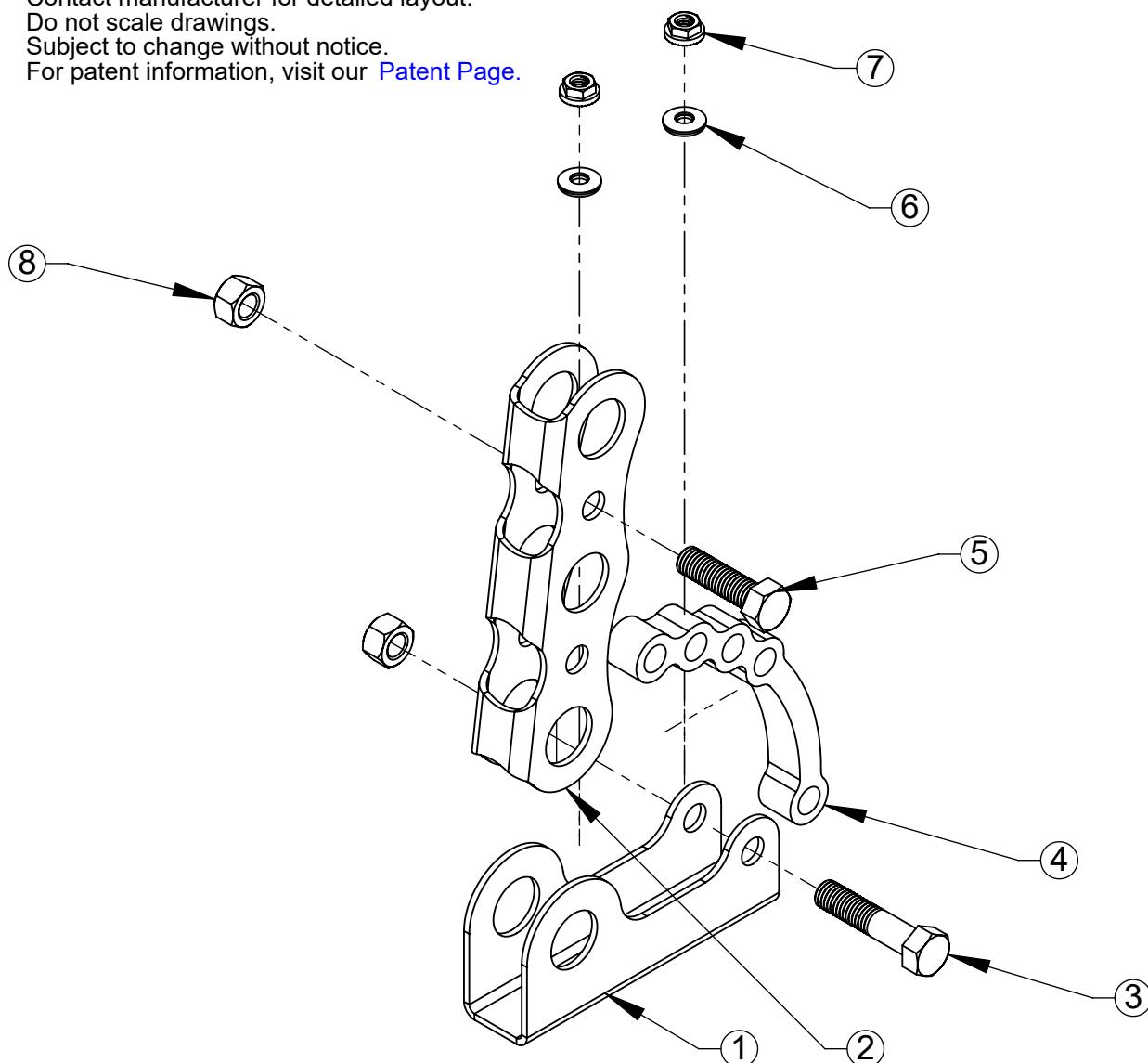
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Scale: 1:3

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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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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.

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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



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.

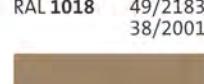
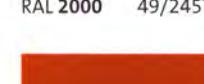
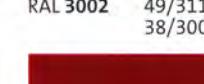
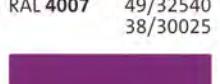
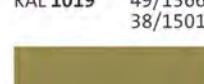
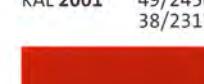
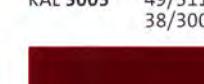
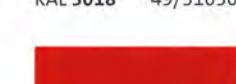
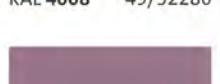
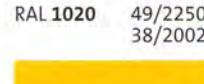
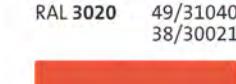
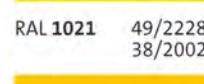
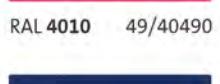
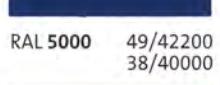
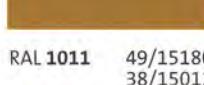
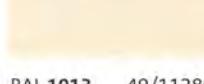
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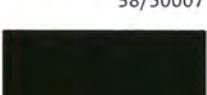
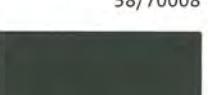
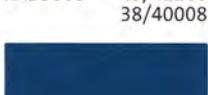
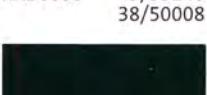
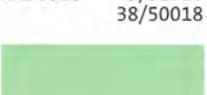
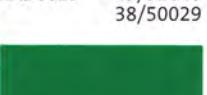
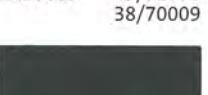
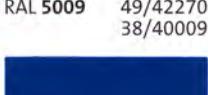
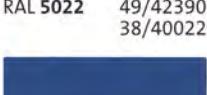
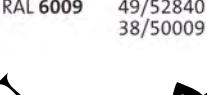
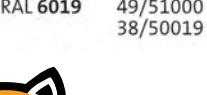
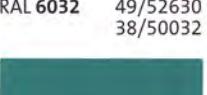
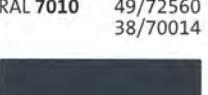
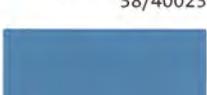
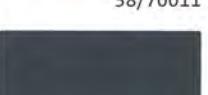
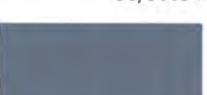
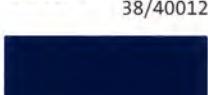
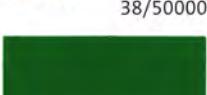
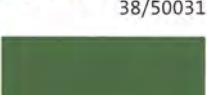
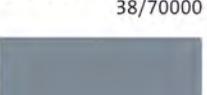
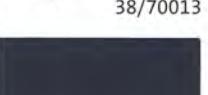
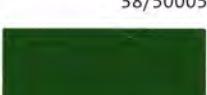
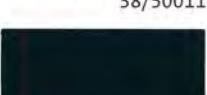
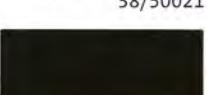
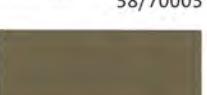
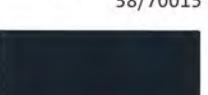
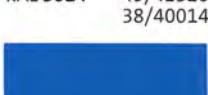
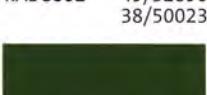
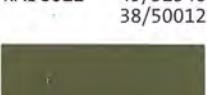
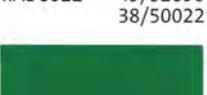
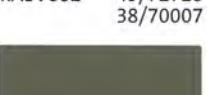
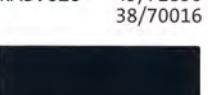
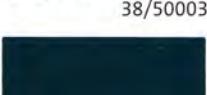
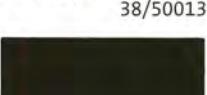
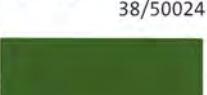
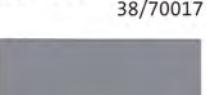
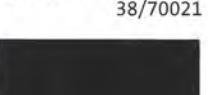
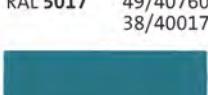
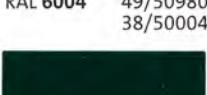
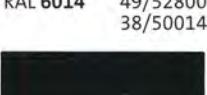
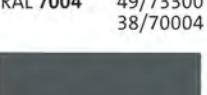
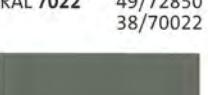
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Chemistry

Color Group
(starting with)

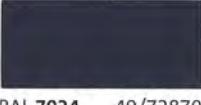
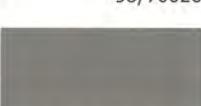
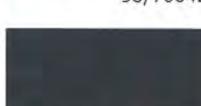
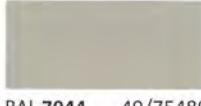
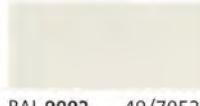
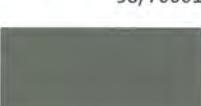
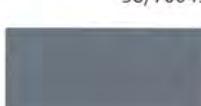
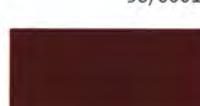
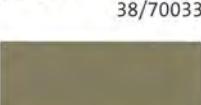
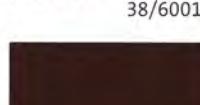
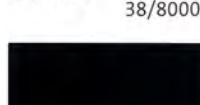
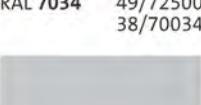
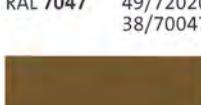
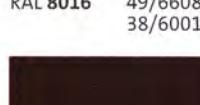
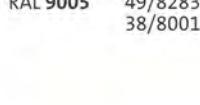
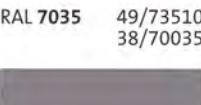
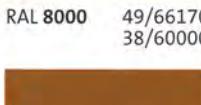
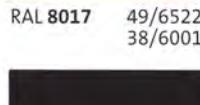
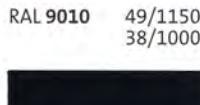
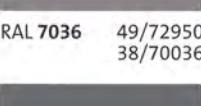
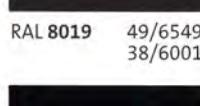
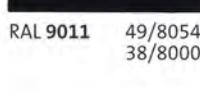
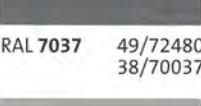
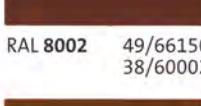
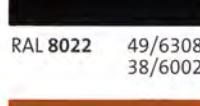
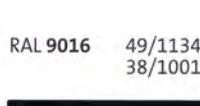
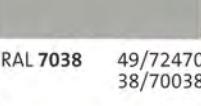
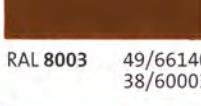
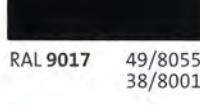
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16 Acrylic Hybrid	2 Yellow / Orange
28 Super Durable Polyester TGIC (for approved applicators only)	3 Red
39 Polyester TGIC	4 Blue
44 Polyurethane	5 Green
49 Polyester TGIC	6 Brown
59 Polyester TGIC-Free	7 Grey
69 Epoxy	8 Black
75 Fluoropolymer (for approved applicators only)	9 Metallic
89 Polyester/Epoxy Hybrid, Low/Fast Cure	

					
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RAL 1002 49/22590 38/20002	RAL 1017 49/22510 38/20017	RAL 1037 49/20096	RAL 3001 49/31120 38/30001	RAL 3016 49/31980 38/30016	RAL 4006 49/32090
					
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RAL 5007 49/42250 38/40007	RAL 5020 49/44270 38/40018	RAL 6007 49/52860 38/50007	RAL 6017 49/52780 38/50017	RAL 6028 49/52650 38/50028	RAL 7008 49/72570 38/70008
					
RAL 5008 49/42260 38/40008	RAL 5021 49/41190 38/40021	RAL 6008 49/53240 38/50008	RAL 6018 49/52720 38/50018	RAL 6029 49/52640 38/50029	RAL 7009 49/72770 38/70009
					
RAL 5009 49/42270 38/40009	RAL 5022 49/42390 38/40022	RAL 6009 49/52840 38/50009	RAL 6019 49/51000 38/50019	RAL 6032 49/52630 38/50032	RAL 7010 49/72560 38/70014
					
RAL 5010 49/42280 38/40016	RAL 5023 49/44650 38/40023	RAL 6009 49/52840 38/50009	RAL 6019 49/51000 38/50019	RAL 6033 49/55010 38/50033	RAL 7011 49/72790 38/70011
					
RAL 5011 49/43180 38/40011	RAL 5024 49/44660 38/40024	RAL 6010 49/52830 38/50031	RAL 6020 49/52710 38/50020	RAL 6034 49/55020 38/50034	RAL 7012 49/71180 38/70012
					
RAL 5012 49/43170 38/40012	RAL 6000 49/53160 38/50000	RAL 6010 49/52830 38/50031	RAL 6020 49/52710 38/50020	RAL 7000 49/72700 38/70000	RAL 7013 49/72550 38/70013
					
RAL 5013 49/42310 38/40013	RAL 6001 49/52900 38/50005	RAL 6011 49/52820 38/50011	RAL 6021 49/52700 38/50021	RAL 7001 49/72710 38/70003	RAL 7015 49/72820 38/70015
					
RAL 5014 49/42320 38/40014	RAL 6002 49/52890 38/50023	RAL 6012 49/51540 38/50012	RAL 6022 49/52690 38/50022	RAL 7002 49/72720 38/70007	RAL 7016 49/72830 38/70016
					
RAL 5015 49/42330 38/40015	RAL 6003 49/52880 38/50003	RAL 6013 49/52810 38/50013	RAL 6024 49/52680 38/50024	RAL 7003 49/72600 38/70017	RAL 7021 49/72540 38/70021
					
RAL 5017 49/40760 38/40017	RAL 6004 49/50980 38/50004	RAL 6014 49/52800 38/50014	RAL 6025 49/52670 38/50025	RAL 7004 49/73300 38/70004	RAL 7022 49/72850 38/70022
					
RAL 5018 49/41140 38/40020	RAL 6005 49/50670 38/50002	RAL 6015 49/52790 38/50015	RAL 6026 49/52660 38/50026	RAL 7005 49/72590 38/70005	RAL 7023 49/72530 38/70023



exterior

	RAL 7024 49/72870 38/70024		RAL 7040 49/75470 38/70046		RAL 8007 49/66120 38/60007		RAL 8025 49/66050 38/60025
	RAL 7026 49/72880 38/70026		RAL 7042 49/73250 38/70042		RAL 8008 49/66110 38/60008		RAL 8028 49/66500 38/60028
	RAL 7030 49/72890 38/70027		RAL 7043 49/72460 38/70043		RAL 8011 49/66100 38/60011		RAL 9001 49/10016 38/10001
	RAL 7031 49/72520 38/70031		RAL 7044 49/75480 38/70044		RAL 8012 49/66090 38/60012		RAL 9002 49/70520 38/10002
	RAL 7032 49/72910 38/70001		RAL 7045 49/77890 38/70045		RAL 8014 49/65230 38/60010		RAL 9003 49/11400 38/10003
	RAL 7033 49/72510 38/70033		RAL 7046 49/72010 38/70002		RAL 8015 49/63040 38/60015		RAL 9004 49/81950 38/80004
	RAL 7034 49/72500 38/70034		RAL 7047 49/72020 38/70047		RAL 8016 49/66080 38/60016		RAL 9005 49/82830 38/80010
	RAL 7035 49/73510 38/70035		RAL 8000 49/66170 38/60000		RAL 8017 49/65220 38/60017		RAL 9010 49/11500 38/10004
	RAL 7036 49/72950 38/70036		RAL 8001 49/66160 38/60005		RAL 8019 49/65490 38/60019		RAL 9011 49/80540 38/80001
	RAL 7037 49/72480 38/70037		RAL 8002 49/66150 38/60002		RAL 8022 49/63080 38/60022		RAL 9016 49/11340 38/10010
	RAL 7038 49/72470 38/70038		RAL 8003 49/66140 38/60003		RAL 8023 49/66070 38/60023		RAL 9017 49/80550 38/80017
	RAL 7039 49/71020 38/70039		RAL 8004 49/66130 38/60004		RAL 8024 49/66060 38/60024		RAL 9018 49/72490 38/10018

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