

PP115R Pipe-Style Snow Guard Submittal Document Set

ROOF TYPES

- Existing Membrane (EPDM, TPO, PVC)

AVAILABLE MATERIALS

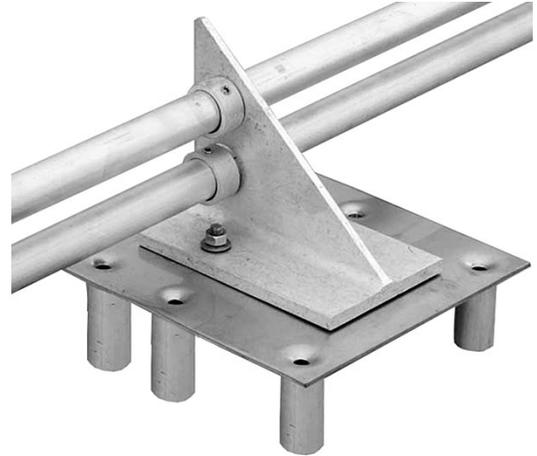
- Aluminum with Stainless Steel Base Plate

AVAILABLE FINISHES

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

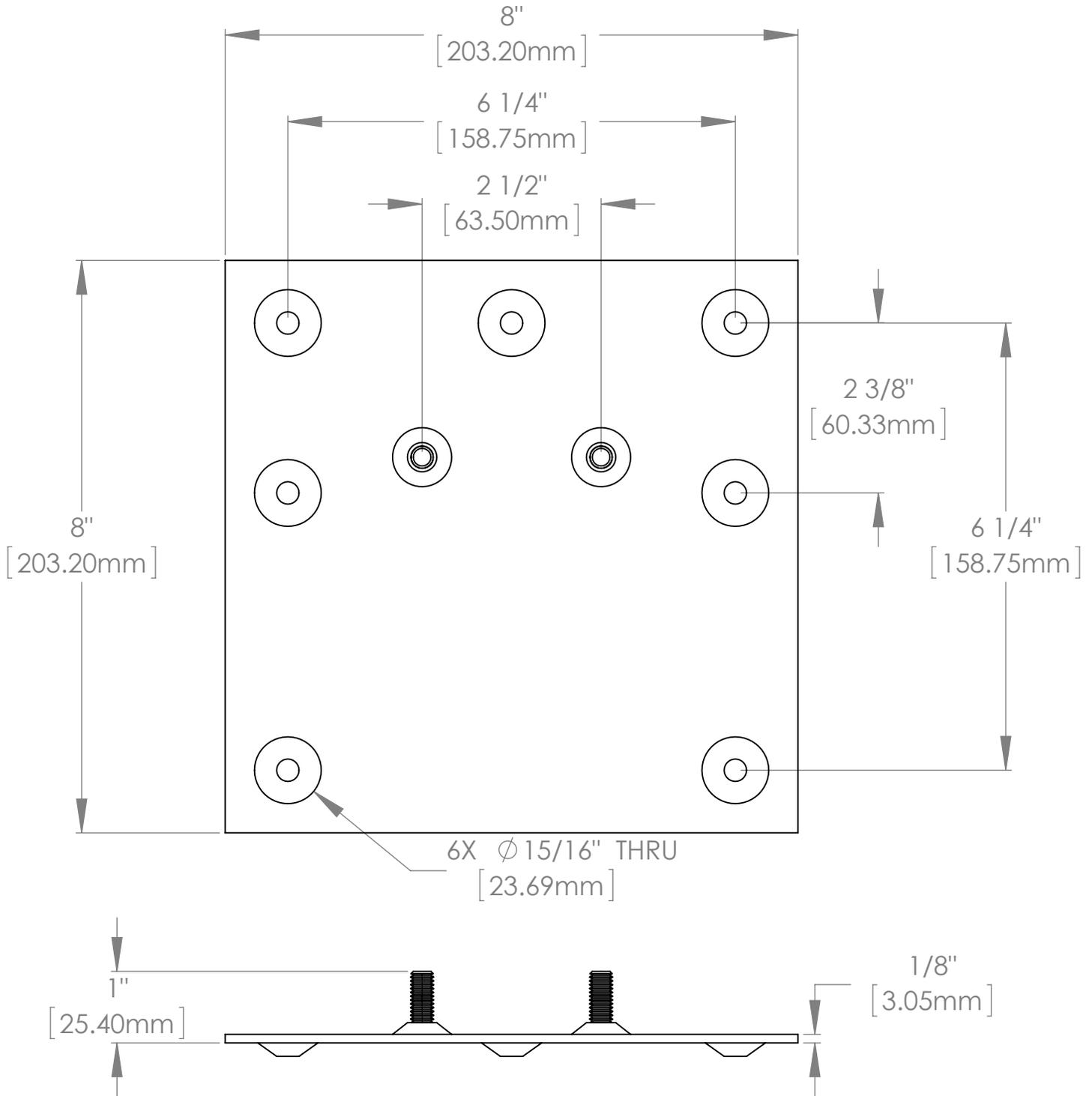
FEATURES/ADVANTAGES

- Designed to be fastened to wood or metal decking with insulation
- Aluminum Bracket measures 6" L x 4" W x 5 1/8" H
- Stainless Steel Base Plate measures 8" L x 8" W
- 6 Metal Ferrules are designed to fit into insulation
- Base Plate can be flashed with compatible target patch (optional)
- 3 configurations include 2-Pipe, 3-Pipe, 2 Hi-Pipe (Hi-Hole)
- All configurations accept 1" OD Pipe (Tubing)
- All configurations are compatible with the use of Ice Flags
- Internal and External Couplings, End Collars and End Caps are available for this system
- Compression seal creates a watertight barrier



Cut Sheet - BASE SS 8X8-100R (PP115R BASE PLATE)

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.



289 Harrel Street
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Phone: 1.888.766.4273
Fax: 1.888.766.9994
Email: Info@alpinesnowguards.com

Scale: 1:2

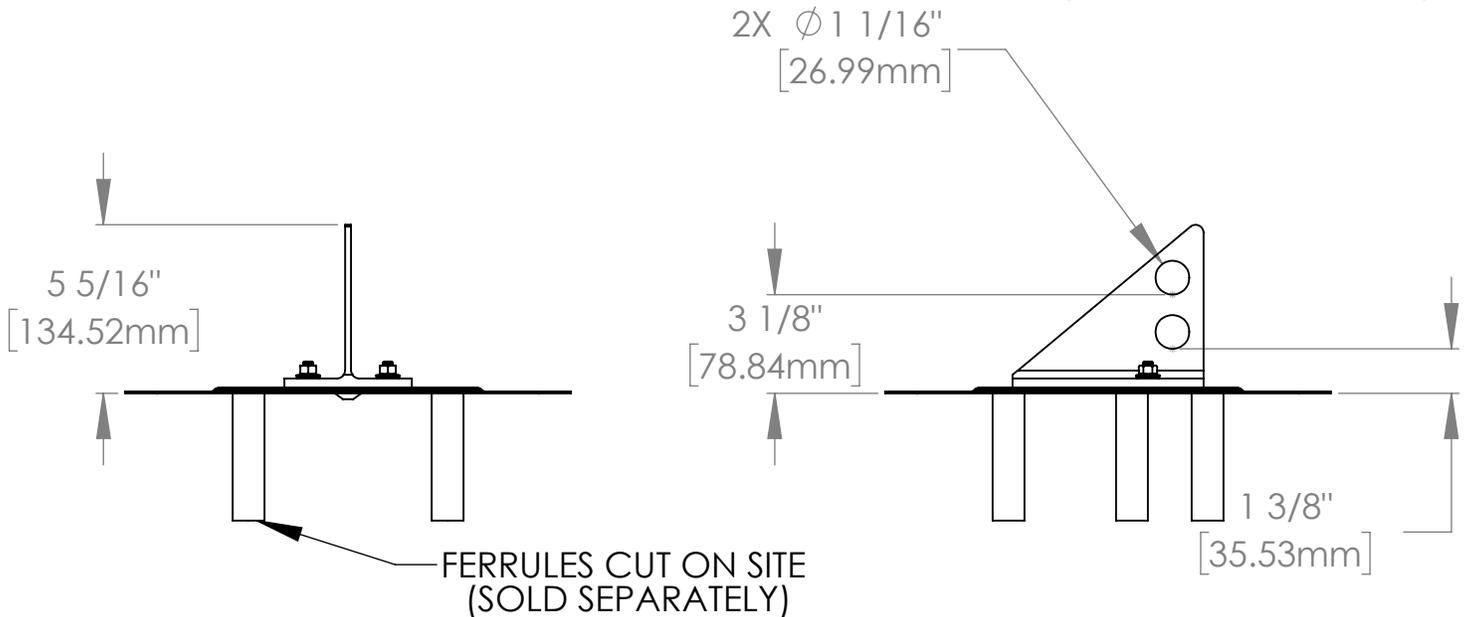
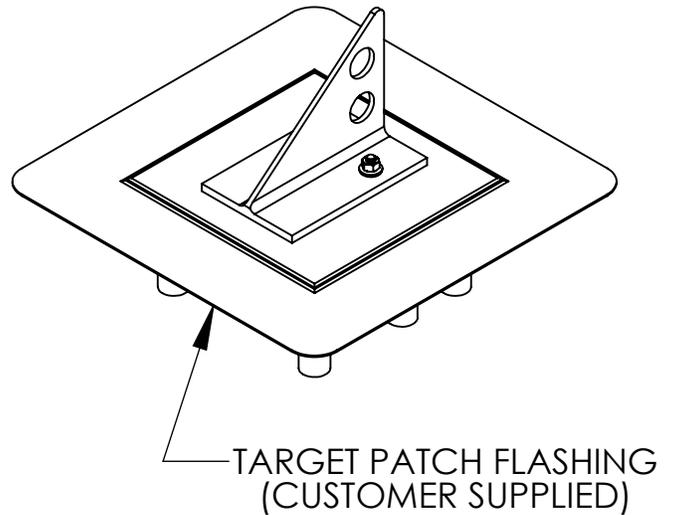
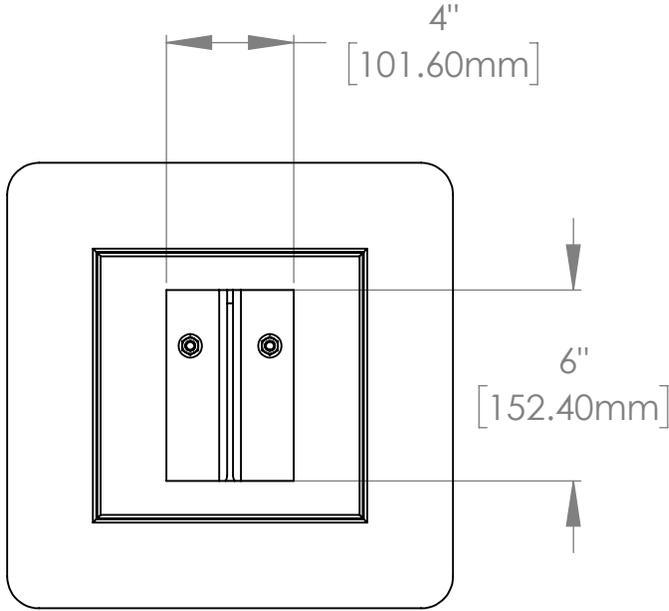
3/2/2018

Cut Sheet - PP115R-H2-ALSS

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.

Available Finishes

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



NOTE: CONTACT ALPINE SNOWGUARDS
FOR FERRULES GREATER THAN 6"



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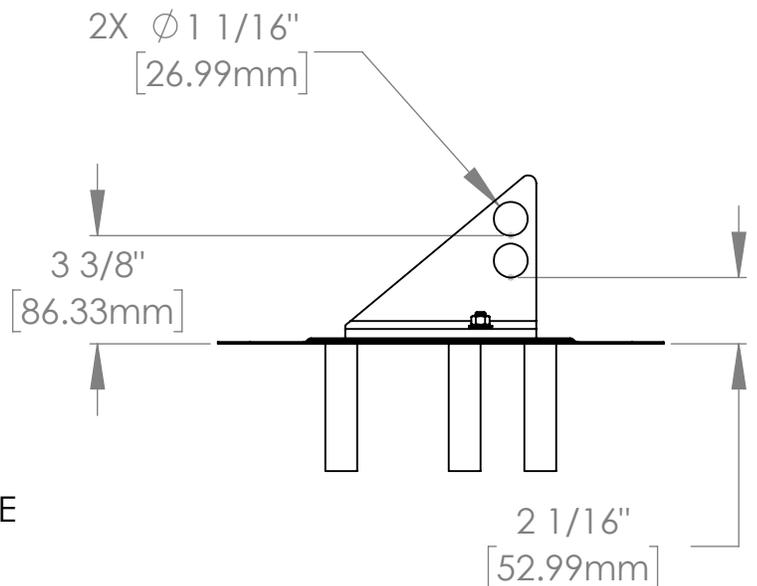
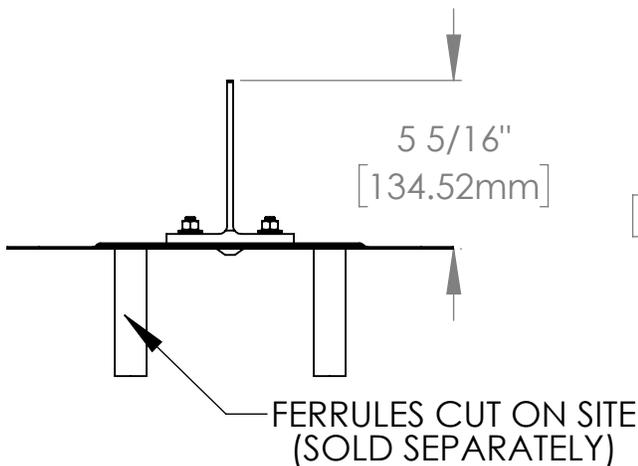
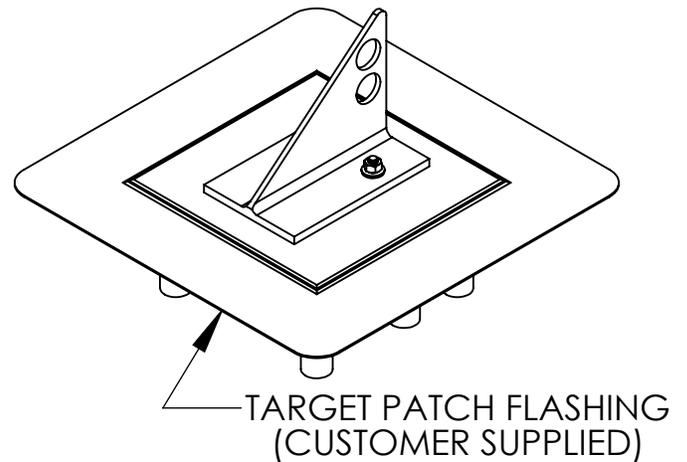
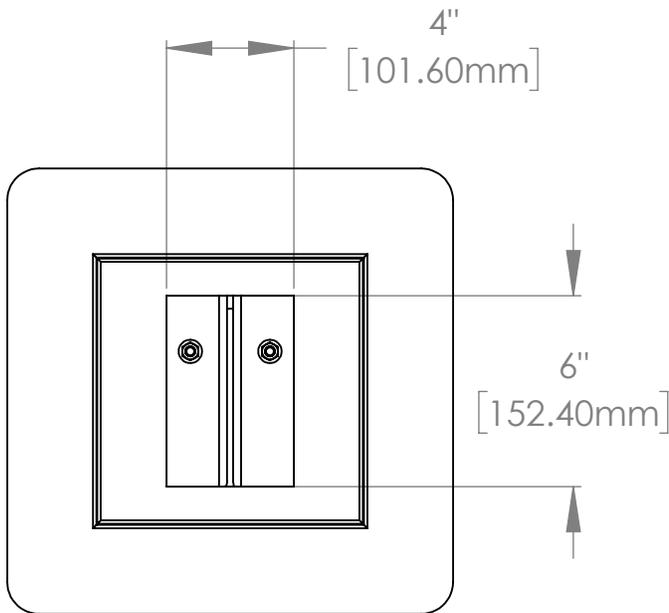
4/22/2021

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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.

Available Finishes

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



NOTE: CONTACT ALPINE SNOWGUARDS FOR FERRULE LENGTHS GREATER THAN 6"



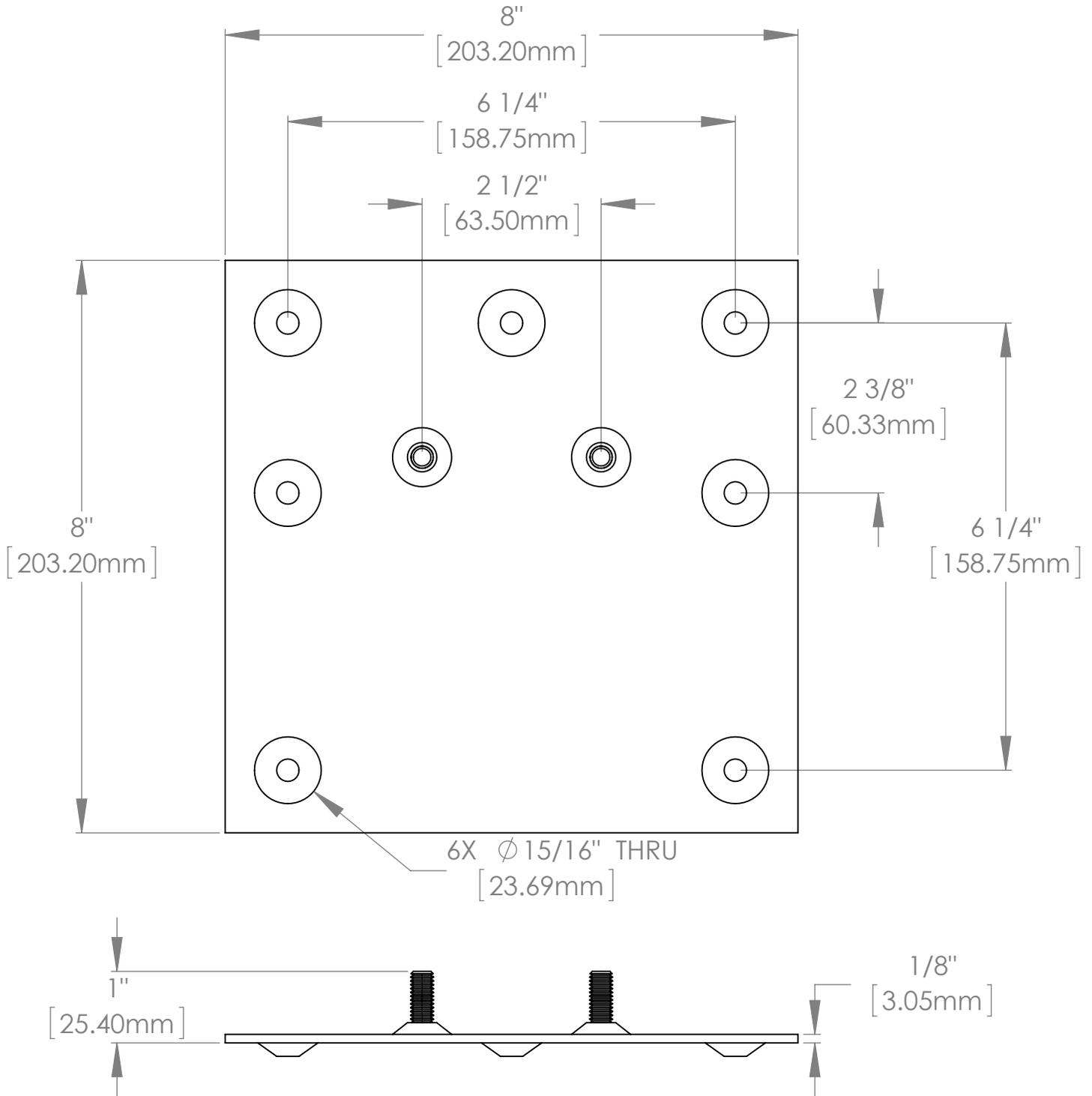
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4/22/2021

Cut Sheet - BASE SS 8X8-100R (PP115R BASE PLATE)

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3. Contact manufacturer for detailed layout.
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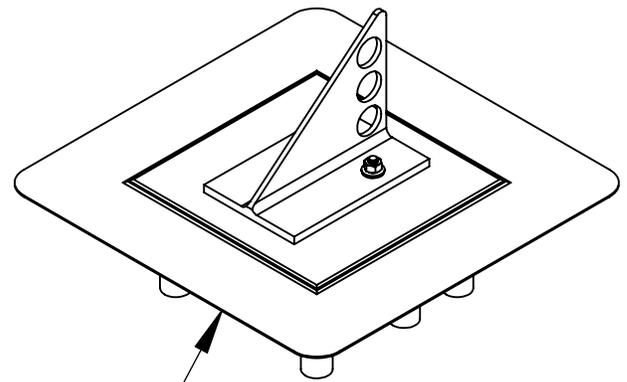
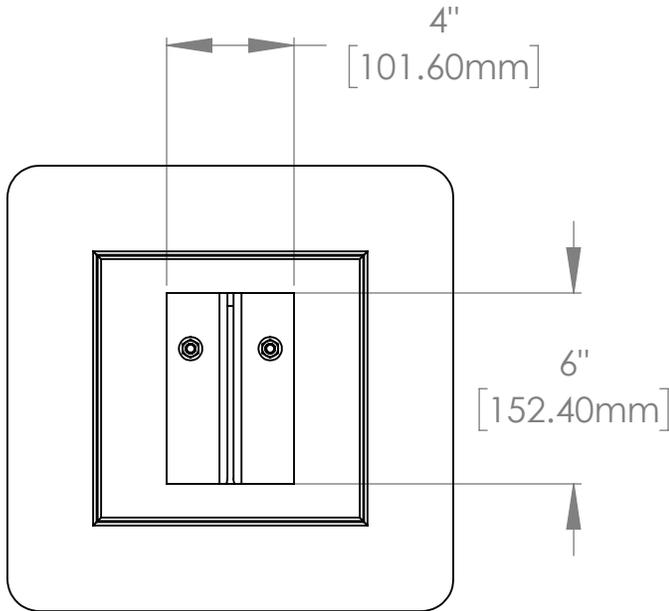
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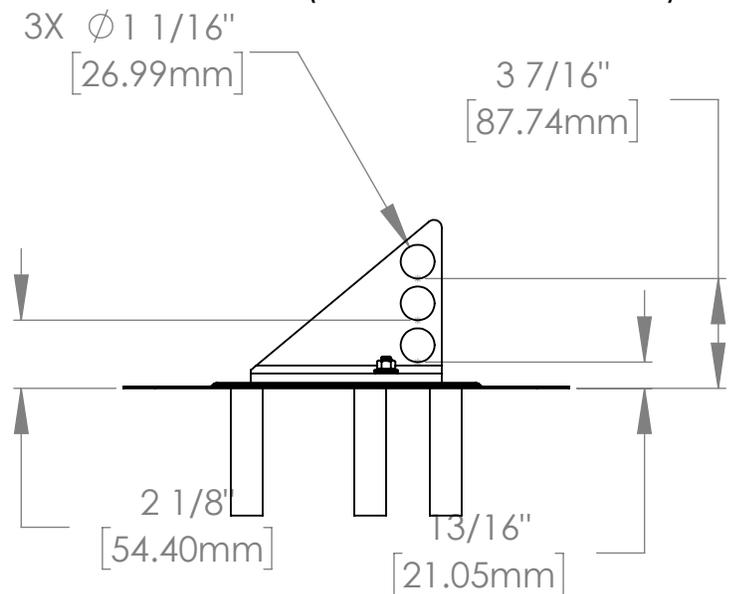
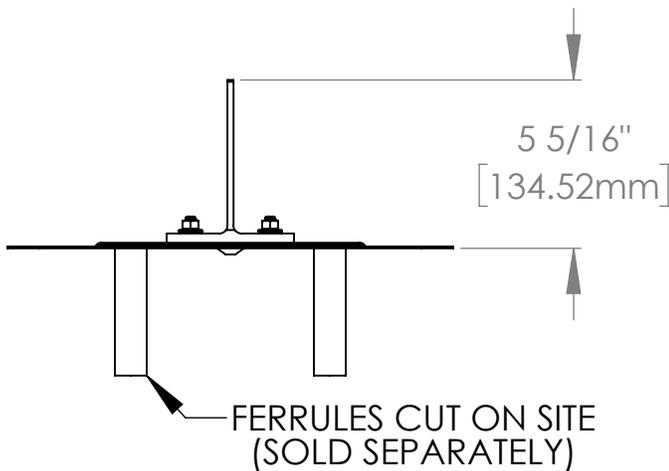
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Available Finishes

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



TARGET PATCH FLASHING
(CUSTOMER SUPPLIED)



NOTE: CONTACT ALPINE SNOWGUARDS
FOR FERRULE LENGTHS GREATER THAN 6"



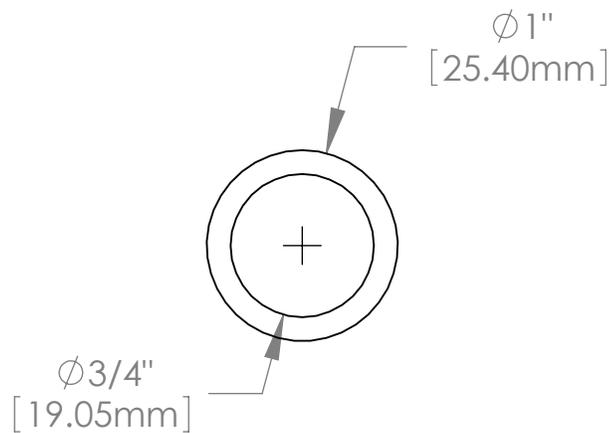
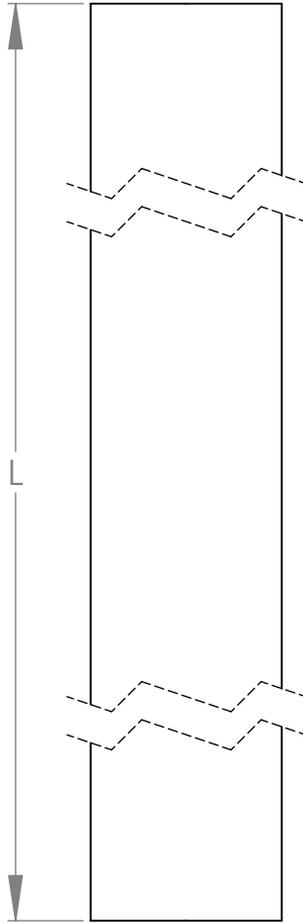
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4/22/2021

Cut Sheet - Ferrule

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](#).



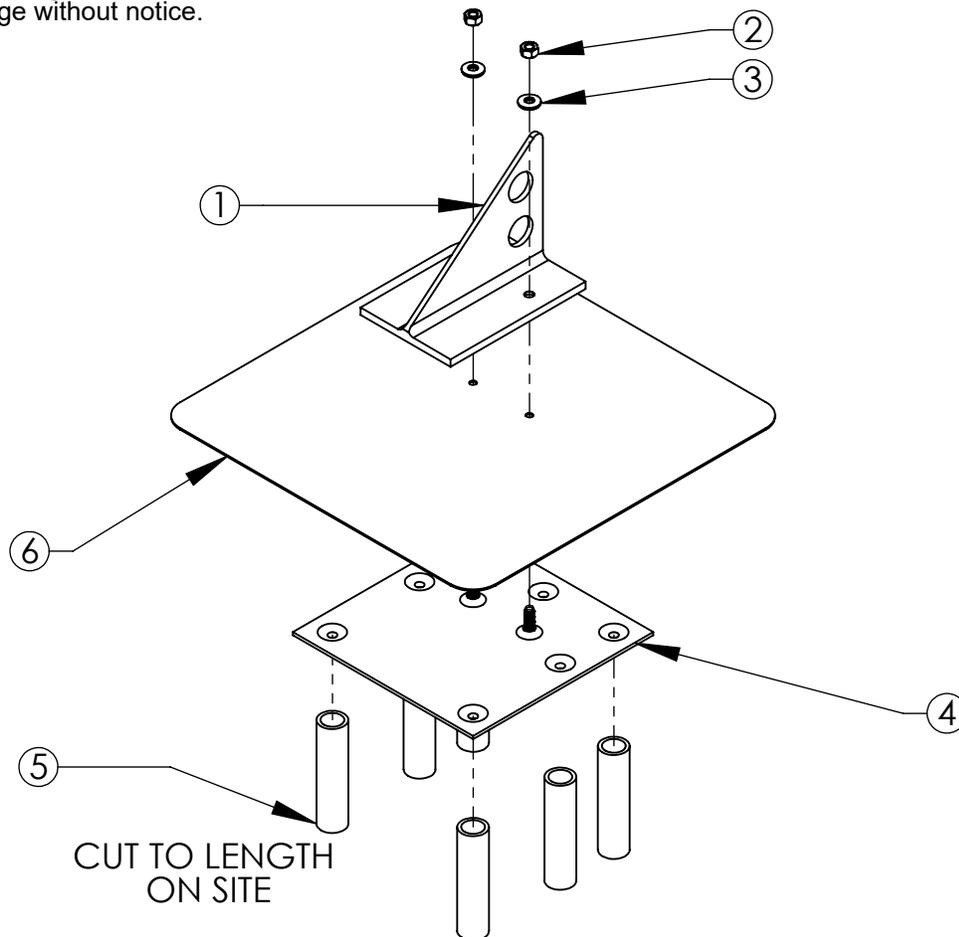
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Scale: 1:1

4/21/2021

Assembly Sheet - PP115R (ALL CONFIGURATIONS)

1. Installation to be completed in accordance with manufacturer's written specifications and installation instructions.
2. See spec sheet or contact manufacturer for detailed material, finishes, and configuration options.
3. Contact manufacturer for detailed layout.
4. Do not scale drawings.
5. Subject to change without notice.



CONTACT ALPINE SNOWGUARDS FOR FERRULE LENGTHS GREATER THAN 6"

ITEM NO.	PART CODE	DESCRIPTION	QTY
1	KIT-145 BRACKET (2-PIPE SHOWN)	KIT-145 BRACKET (2-PIPE, 3-PIPE, OR HI-HOLE OPTIONS)	1
2	N-HX SS-.3125-18	NUT SS HEX FINISHED .3125-18 (INCLUDED IN POLY KIT 145)	2
3	W-NEO SS-.313	SS NEO WASHER .313 ID (INCLUDED IN POLY KIT 145)	2
4	BASE SS 8X8-100R	SS 8X8-100R BASE PLATE	1
5	FERRULE	FERRULE FOR 115R-1" OD-AL (SOLD SEPARATELY)	6
6	TARGET PATCH FLASHING	TARGET PATCH FLASHING (CUSTOMER SUPPLIED)	1



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4/22/2021

PP115R Specification Sheet Snow Guards

PART 1 – GENERAL

1.1 SUMMARY

A. WORK INCLUDES

1. PP115R snow guards that attach directly to roof deck.
2. Coordinate with installation of roof to assure proper placement of snow guards.
3. Provide appropriate snow guards and fasteners for the roof system.

B. RELATED SECTIONS

- | | |
|---|----------------------------|
| 1. Section 076000: Flashing and Sheet Metal | MasterFormat 2016 07 60 00 |
| 2. Section 075000: Membrane Roofing | MasterFormat 2016 07 50 00 |
| 3. Section 077253: Snow Guards | MasterFormat 2016 07 72 53 |

1.2 SYSTEM DESCRIPTION

A. COMPONENTS

1. Bracket: KIT-145 BRACKET - A mill finish aluminum bracket with 2 fastener holes to accept the 5/16" base plate studs and holes in flag to accept pipe (2-pipe, 3-pipe, or 2 hi-hole).
2. N-HX SS-.3125-18
3. W-NEO SS-.313
4. BASE SS 8X8-100R - An 8" x 8" stainless steel base plate with two 5/16"-18x3/4" stainless steel flathead bolts welded into place.
5. FERRULE - An aluminum tube designed to fit into insulation to be fastened to wood or metal decking. Ferrules are sold separately, as needed.
6. TARGET PATCH FLASHING - A customer-supplied target patch flashing of appropriate size, material and method of installation to meet roof manufacturer's requirement for proper flashing.
7. PP56, end caps - a stainless steel cap that is inserted into the end of the run of pipe, creating a barrier against moisture, debris and insects.
8. PP65, end collars - an aluminum collar that is used to keep the pipe in appropriate position within bracket.
9. PP75, pipe – an aluminum pipe that is inserted into holes in bracket. PP95 ice flags are optional.
10. Coupling: PP86 (Internal) or PP84 (external) - an aluminum coupling that is used to couple runs of pipe together.
11. PP95, ice flags (optional) - an aluminum accessory installed on fence-style snow guards that provides additional surface area/snow management properties to help keep snow and ice from sliding underneath the pipe.
12. Fasteners: Fasteners are not included.
 - 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.

PP115R Specification Sheet Snow Guards

B. DESIGN REQUIREMENTS

1. Spacing to be recommended by manufacturer or building engineer.
2. Install a minimum of 6 fasteners per snow guard base plate.
3. It is important to design new structures or assess existing structures to make sure that 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. Snow Guard Bracket - 6000 Series Aluminum.

B. Base Plate – 11-gauge 304 stainless steel with two 5/16” 304 stainless steel machine screws welded into countersinks.

C. Pipe (choose one)

1. Aluminum – 6000 Series, 1” outside diameter and .120” wall thickness, extruded.
2. Stainless Steel – 304 alloy, same dimensions as aluminum, welded.

D. 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 Internal and concealed coupling 3” long.

E. End Caps - 304 Stainless Steel

F. End Collars (choose one)

1. 6000 Series Aluminum

2. 304 Stainless Steel

G. Ferrules – 6000 Series Aluminum 1” O.D, .120” wall thickness x 24” long.

Cut to length on site.



PP115R Specification Sheet Snow Guards

H. Ice Flags (optional - choose one)

1. 6000 Series Aluminum 3" wide x length (as needed).
2. 304 Stainless Steel

I. Fasteners (can be purchased from others) to be compatible with chosen roof application and meet specified pull-out values as shown in load test data.

2.3 FINISH (choose one)

- A. Mill Finish – standard
- B. Powder Coated – available at additional cost

PART 3 – EXECUTION

3.1 EXAMINATION

A. Substrate

1. Inspect structure on which snow guard system is to be installed and verify it will withstand any additional loading 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



PP115R Snow Guard Installation Instructions

ROOF TYPES

- Existing Membrane (EPDM, TPO, PVC)

Base Plate Installation

Base Plate is flat stainless-steel component with two threaded studs.

1. Place base plate on top of finished membrane roof and mark locations of six fastener holes.

Note: *Threaded studs on base plate are not centered. Align base plate so studs are on upslope end of base plate.*

2. Remove base plate and at six marked locations, bore one-inch holes through the finished membrane and through insulation until substructure is reached.
3. Measure depth of each hole and cut ferrules to rest on substructure to be flush with finished roof surface when inserted into holes. Drop ferrules into place. Ferrules resting on substructure will prevent insulation from compressing when base plate is tightened into place.

Note: *Contact Alpine SnowGuards for ferrule lengths greater than 6".*

Optional: apply appropriate amount of low expansion spray foam insulation inside six ferrules. This is to prevent condensation on underside of metal decking.

4. Place base plate on top of finished membrane roof so four fastener holes line up with centers of six ferrules. Holes in base plate will lock into ferrules when ferrules are positioned properly.
5. Fasten base plate to substructure using fasteners that are appropriate for decking type and insulation thickness, making certain base plate cannot shift.
6. Consult with an engineer, with Alpine SnowGuards or with a fastener company to determine proper fasteners for attaching base plate to substructure.

Membrane Flashing of Base Plate

1. Use an acceptable piece and size of flashing material to cover base plate in a method accepted by membrane manufacturer. This is commonly referred to as "Flashing Patch" or "Target Patch". The size must be a minimum of 12" x 12", however, each membrane manufacturer has specific requirements that must be met.
2. In the flashing material, cut two holes small enough to fit tightly over 2 threaded studs of base plate.
3. Before installing flashing material, apply a generous amount of an acceptable sealer around 2 threaded studs.
4. Apply flashing material over base plate and seal perimeter of flashing to deck sheet.
5. Threaded studs are now only part of base plate exposed.

PP115R Snow Guard Installation Instructions

Note: Due to sealer applied around studs, there may be bleed out at this opening. When the bracket is installed and tightened, this bleed out will assist in creating a watertight compression fitting.

Snow Guard Bracket Installation

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

fig. 1.



SNOW GUARD LAYOUT FOR PIPE-STYLE BRACKETS

- Contact Alpine SnowGuards for detailed layout information.
- To allow for thermal expansion, do not install runs of snow retention pipe or bar in excess of 100 feet long without a break.
- First row of snow guards are installed above outermost wall or support of the building.



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

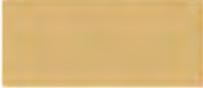
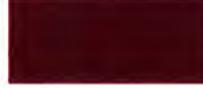
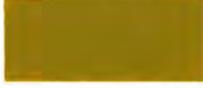
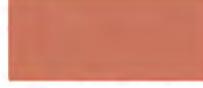
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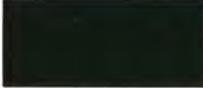
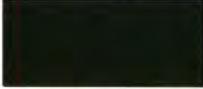
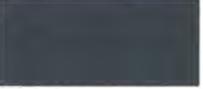
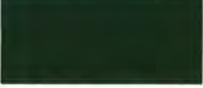
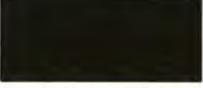
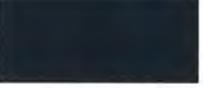
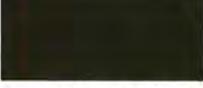
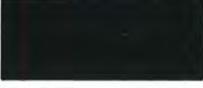
Chemistry

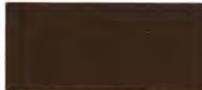
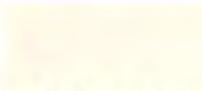
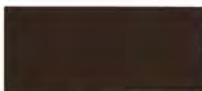
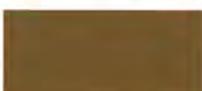
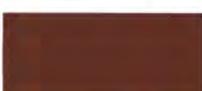
09 Polyester/Epoxy Hybrid
16 Acrylic Hybrid
28 Super Durable Polyester
TGIC (for approved
applicators only)
39 Polyester TGIC
44 Polyurethane
49 Polyester TGIC
59 Polyester TGIC-Free
69 Epoxy
75 Fluoropolymer
(for approved
applicators only)
89 Polyester/Epoxy Hybrid,
Low/Fast Cure

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
					
RAL 1002 49/22590 38/20002	RAL 1017 49/22510 38/20017	RAL 1037 49/20096	RAL 3001 49/31120 38/30001	RAL 3016 49/31980 38/30016	RAL 4006 49/32090
					
RAL 1003 49/22580	RAL 1018 49/21830 38/20018	RAL 2000 49/24570	RAL 3002 49/31110 38/30002	RAL 3017 49/31060	RAL 4007 49/32540 38/30025
					
RAL 1004 49/22570 38/20004	RAL 1019 49/13660 38/15019	RAL 2001 49/24560 38/23170	RAL 3003 49/31100 38/30003	RAL 3018 49/31050	RAL 4008 49/32280
					
RAL 1005 49/22560 38/20005	RAL 1020 49/22500 38/20020	RAL 2002 49/24550 38/25002	RAL 3004 49/33900 38/30004	RAL 3020 49/31040 38/30021	RAL 4009 49/34740
					
RAL 1006 49/22550 38/20006	RAL 1021 49/22280 38/20021	RAL 2003 49/24540	RAL 3005 49/31900 38/30005	RAL 3022 49/33700	RAL 4010 49/40490
					
RAL 1007 49/22540	RAL 1023 49/22490 38/20023	RAL 2004 49/24530	RAL 3007 49/31910 38/30007	RAL 3027 49/33660	RAL 5000 49/42200 38/40000
					
RAL 1011 49/15180 38/15011	RAL 1024 49/22480 38/20024	RAL 2008 49/24340	RAL 3009 49/31920 38/30009	RAL 3031 49/34730 38/30031	RAL 5001 49/42210 38/40001
					
RAL 1012 49/22530 38/20012	RAL 1027 49/22470 38/20027	RAL 2009 49/24360	RAL 3011 49/31090 38/30011	RAL 4001 49/43160	RAL 5002 49/42220 38/40002
					
RAL 1013 49/11280 38/10013	RAL 1028 49/22460	RAL 2010 49/24520 38/25001	RAL 3012 49/31940 38/30012	RAL 4002 49/31030 38/30008	RAL 5003 49/42230 38/40003
					
RAL 1014 49/15170 38/15014	RAL 1032 49/22450 38/20032	RAL 2011 49/24580	RAL 3013 49/31950 38/30013	RAL 4003 49/32270	RAL 5004 49/42240 38/40004

					
RAL 5005 49/43190 38/40010	RAL 5019 49/42360 38/40019	RAL 6006 49/52870 38/50006	RAL 6016 49/51020 38/50016	RAL 6027 49/50990 38/50027	RAL 7006 49/72580 38/70006
					
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
					
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RAL 7030 49/72890 38/70027	RAL 7043 49/72460 38/70043	RAL 8011 49/66100 38/60011	RAL 9001 49/10016 38/10001
			
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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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