ALPINE❖SNOWGUARDS®

SnowMax - Membrane Fence-Style Snow Guard
Submittal Document Set

ROOF TYPES
- New / Existing Membrane (EPDM, TPO, PVC)

AVAILABLE MATERIALS
- Aluminum 6000 Series and Stainless Steel Base Plate (AL) (SS)

AVAILABLE FINISHES
- Mill Finish (Standard)
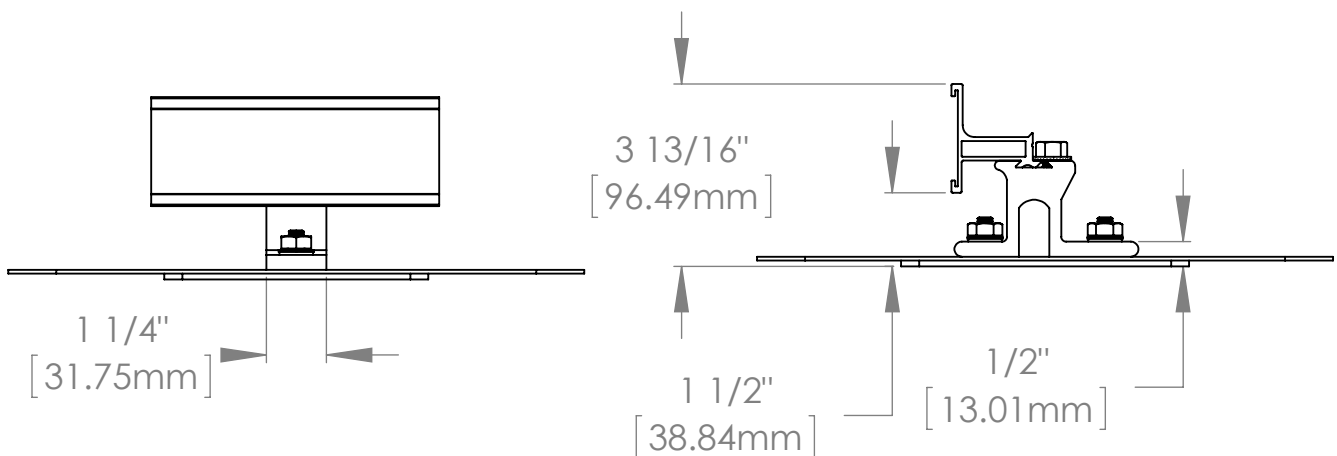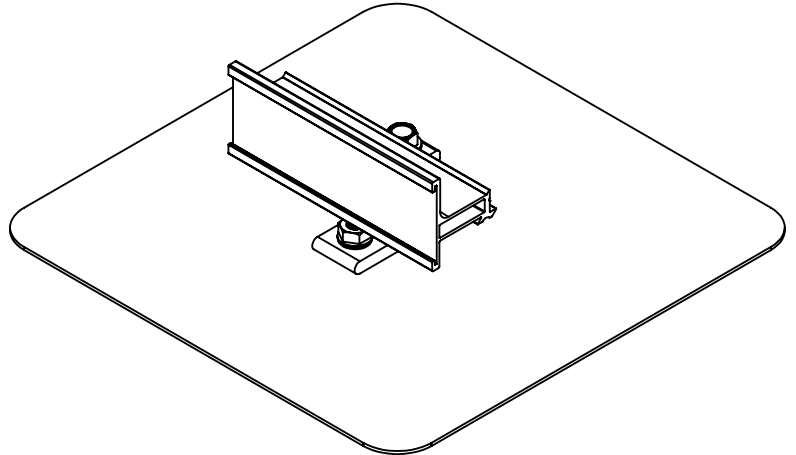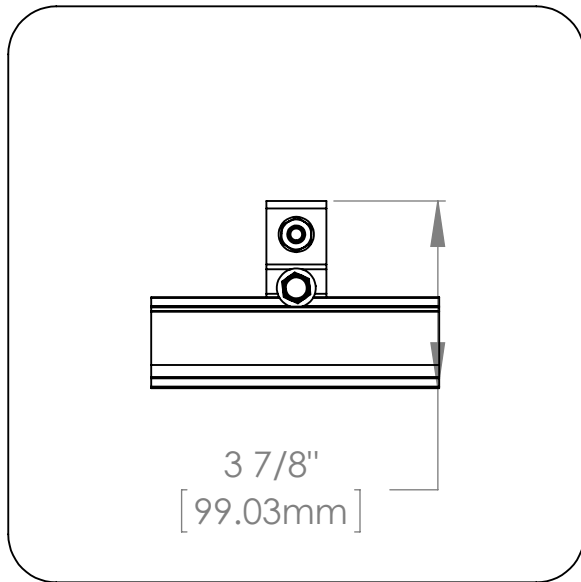- Optional Color Insert Strip: Pre-Painted Kynar® Stock Colors

FEATURES/ADVANTAGES
- Includes 6"L x 5.5"W base plate
- Base plate can be flashed with compatible target patch (optional)
- Increased bracket spacing (up to 48" on center)
- Bracket employs compression-fit technology

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Cut Sheet - SNOWMAX-MEMBRANE-1.5

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.

3 7/8"
[99.03mm]

3 13/16"
[96.49mm]

1 1/4"
[31.75mm]

1 1/2"
[38.84mm]

1/2"
[13.01mm]

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| Scale: 1:4 | 2/8/2021 |

Cut Sheet - SNOWMAX-LITE-BAR

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.
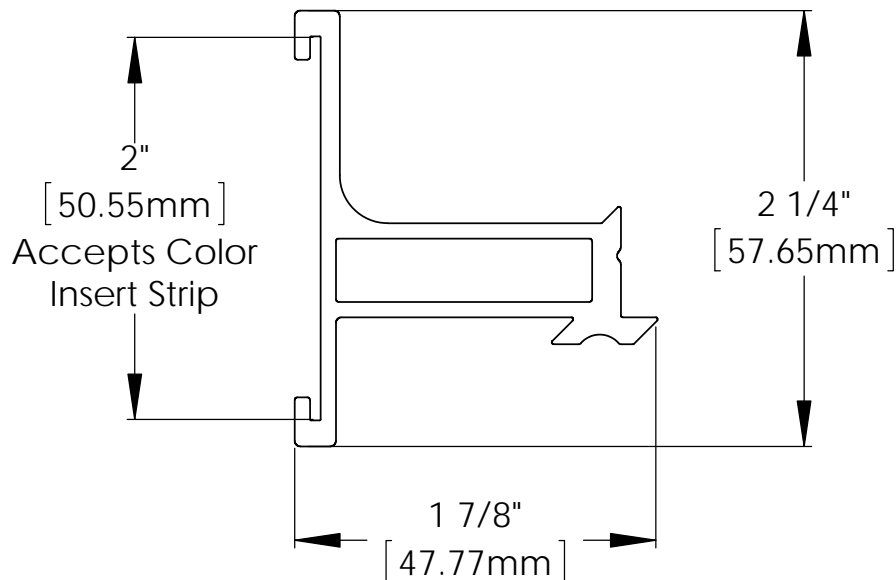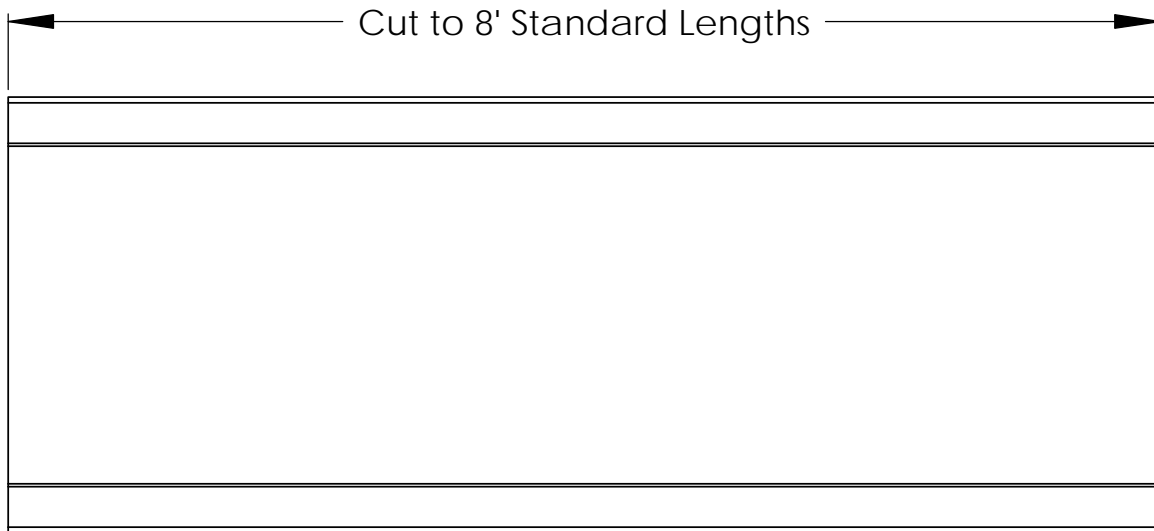6. For patent information, visit our Patent Page.

Cut to 8' Standard Lengths

2"
[50.55mm]
Accepts Color
Insert Strip

2 1/4"
[57.65mm]

1 7/8"
[47.77mm]

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| Scale: 1:1 | 8/26/2019 |

Cut Sheet - SNOWMAX-IF

1. Installation to be completed in accordance with manufacturer's written specifications and installation instructions.
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3. Contact manufacturer for detailed layout.
4. Do not scale drawings.
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6. For patent information, visit our Patent Page.

3"
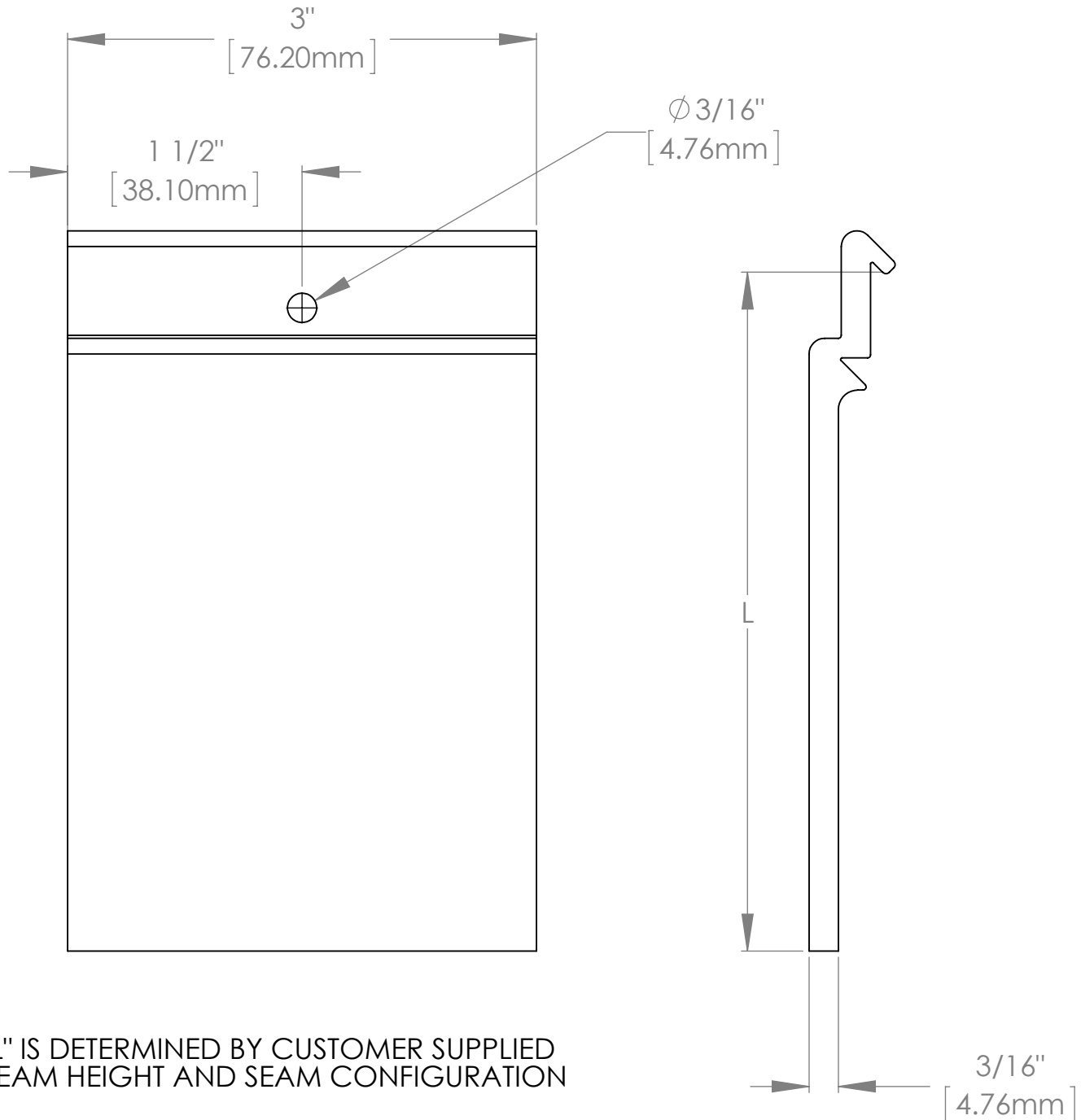[76.20mm]

1 1/2"
[38.10mm]

⌀ 3/16"
[4.76mm]

L

"L" IS DETERMINED BY CUSTOMER SUPPLIED
SEAM HEIGHT AND SEAM CONFIGURATION

3/16"
[4.76mm]

Scale: 1:1	6/12/2019

Assembly Sheet - SNOWMAX-MEMBRANE-1.5

1. Installation to be completed in accordance with manufacturer's written specifications and installation instructions.
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3. Contact manufacturer for detailed layout.
4. Do not scale drawings.
5. Subject to change without notice.
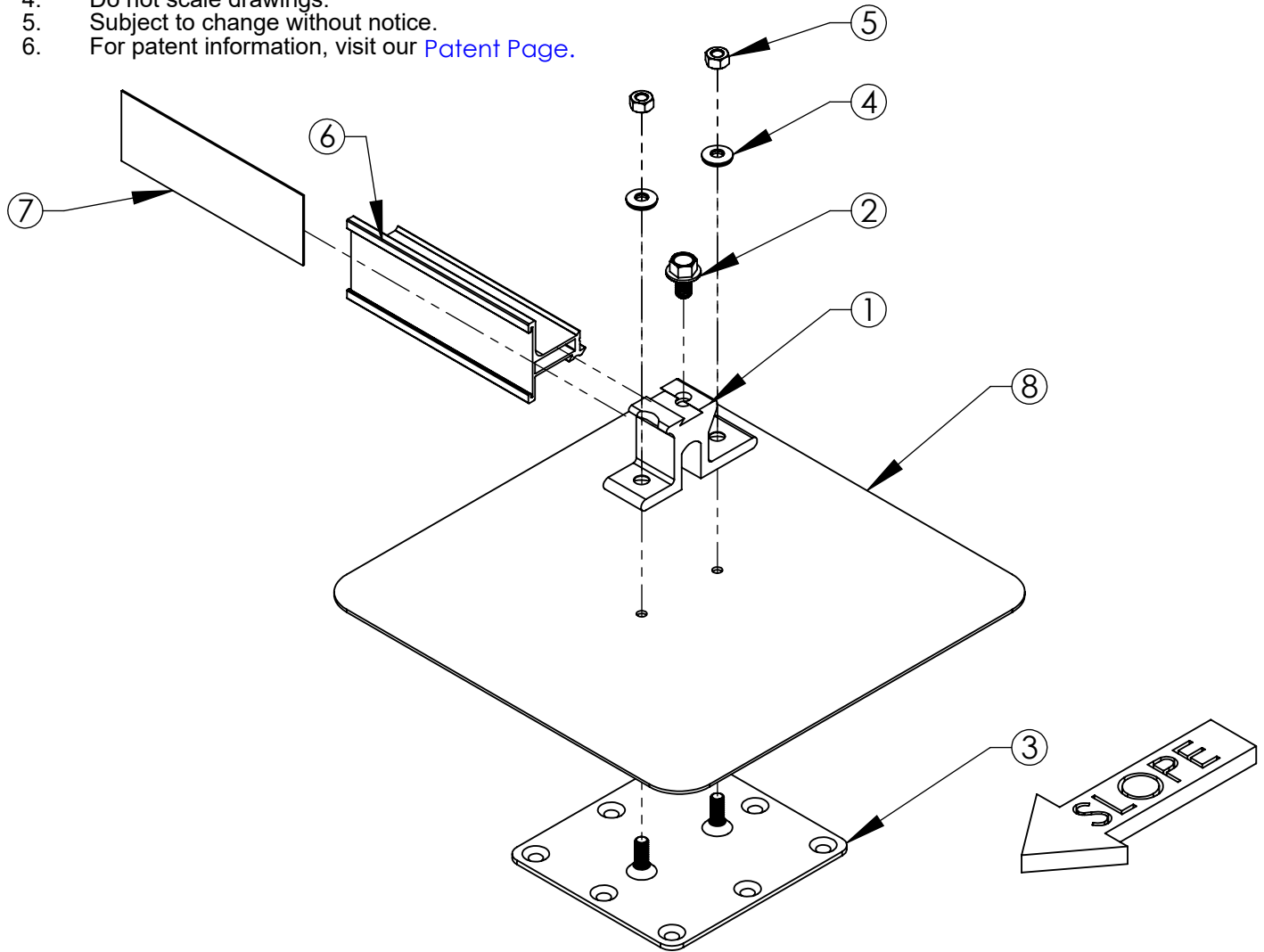6. For patent information, visit our Patent Page.

SLOPE

ITEM NO.	PART CODE	DESCRIPTION	QTY
1	SMX-2'' BRKT-AL	SNOWMAX 2'' BRKT W/2 CS FAST	1
2	B-FL SS-.375-16X.562	SS FLANGE BOLT .375-16X.5625	1
3	BASE SS 6X5.5	SS 6X5.5 BASE PLATE	1
4	W-NEO SS-.313	SS NEO WASHER .313 ID (INCLUDED IN POLY KIT 6X5.5 BASE)	2
5	N-HX SS-.3125-18	SS FINISHED HEX NUT .3125-18 (INCLUDED IN POLY KIT 6X5.5 BASE)	2
6	SNOWMAX-LITE-BAR	SNOWMAX LITE BAR 2''-AL (8' LENGTHS)	AS NEEDED
7	SNOWMAX-COLOR INSERT	SNOWMAX 2'' COLOR INSERT STRIP (OPTIONAL)	AS NEEDED
8	TARGET PATCH FLASHING	TARGET PATCH FLASHING (CUSTOMER SUPPLIED)	AS NEEDED

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| Scale: 1:4 | 7/13/2021 |

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SnowMax – Membrane Fence-Style Specification Sheet
Snow Guards

PART 1 – GENERAL

1.1 SUMMARY

    A. WORK INCLUDES

        1. SNOWMAX-MEMBRANE-1.5 snow guard that attaches directly to roof deck.

        2. Coordinate with installation of roof to assure proper placement of snow guards.

        3. Provide appropriate fasteners for roof system.

    B. RELATED SECTIONS

        1. Section 07600: Flashing and Sheet Metal.   MasterFormat 2016 07 60 00

        2. Section 07500: Membrane Roofing.   MasterFormat 2016 07 50 00

        3. Section 077253: Snow Guards.   MasterFormat 2016 07 72 53

1.2 SYSTEM DESCRIPTION

    A. COMPONENTS

    Bracket: Aluminum mounting bracket with dovetail shape to interface with
SNOWMAX-LITE-BAR, two thru holes to accept 5/16" base plate studs,
and 3/8" tapped hole to accept stainless steel flange bolt that secures bar to mounting bracket.

        1. SMX-2" BRKT-AL

        2. B-FL SS-.375-16X.562

    Base: Stainless steel base plate with two 5/16"-18 stainless steel hex nuts
and two 5/16" diameter bonded stainless steel and neoprene washers for
attaching mounting bracket to base plate.

        3. EF-65-BASE-SS

        4. W-NEO SS-.313

        5. N-HX SS-.3125-18

    Bar: Aluminum bar (8' length) that attaches to mounting bracket via dovetail and flange bolt.
It contains a 2" tall slot for optional color insert strip.

        6. SNOWMAX-LITE-BAR

        7. SNOWMAX-COLOR INSERT (OPTIONAL)

    Flashing: Target patch of appropriate size, material and method of installation to meet roof
manufacturer's requirement for proper flashing.

        8. TARGET PATCH FLASHING (Customer Supplied)

    Fasteners:

        a. To be of metal compatible with snow guards.

        b. Fasteners should be selected for compatibility with roof deck.

        c. Fastener strength should exceed or be equal to that of snow guard system.

    B. DESIGN REQUIREMENTS:

        1. Spacing to be recommended by manufacturer or building engineer.

        2. Install a minimum of 6 fasteners per snow guard base plate.

        3. It is important to design new structures or assess existing structures to make sure
        they can withstand retained snow loads.

1.3 SUBMITTAL

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

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1.4 QUALITY ASSURANCE

A. Installer to be experienced in the 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.

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2.2 MATERIALS

1. SNOWMAX-MEMBRANE-1.5 – 6000 Series Aluminum
2. B-FL SS-.375-16X.562 – Stainless Steel Bolt
3. EF-65-BASE-SS – 11 Gauge 304 Stainless Steel with two.313-18 Stainless Steel bolts welded into countersinks
4. N-HX SS-.3125-18 – Stainless Steel hex nut .313-18
5. W-NEO SS-.313 – Stainless Steel bonded washer .313
6. SNOWMAX-LITE-BAR – 6000 Series Aluminum
7. SNOWMAX-COLOR INSERT – .032 Aluminum
8. TARGET PATCH FLASHING – (Follow roof manufacturer's specifications)

2.3 FINISH

A. Mill Finish – standard

PART 3 – EXECUTION

3.1 EXAMINATION

A. Substrate

1. Inspect structure on which the brackets are 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.

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07 72 53 Snow Guards

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SnowMax - Membrane Snow Guard Installation Instructions

ROOF TYPES
- New / Existing Membrane (EPDM, TPO, PVC)

BASE PLATE INSTALLATION
1. Place base plate on top of finished membrane roof.

   Note: Base plate measures 6" x 5.5".
   Align base plate so studs are vertical and 5.5" dimension is parallel to eave edge.

2. Fasten base plate to substructure (usually wood blocking is used for this bracket) using appropriate fasteners for the type and thickness of decking. Make certain that base plate cannot shift.

   Note: Wood blocking must measure 2" larger than perimeter of base plate.
   Thickness of wood blocking will vary, but must match thickness of installed insulation.

MEMBRANE FLASHING OF BASE PLATE
Note: Use acceptable piece and size of flashing material to cover base plate in a method acceptable to membrane manufacturer. This is commonly referred to as a Target Patch. The size should be a minimum of 12" x 12". Each membrane manufacturer has specific requirements that must be met.

1. Cut two small holes in membrane flashing to fit tightly over threaded studs.

2. Before installing flashing, apply a generous amount of an architect-approved sealant around threaded studs on base plate.

3. Apply flashing over base plate and seal perimeter of flashing to deck sheet. Threaded studs are now the only part of base plate exposed.

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

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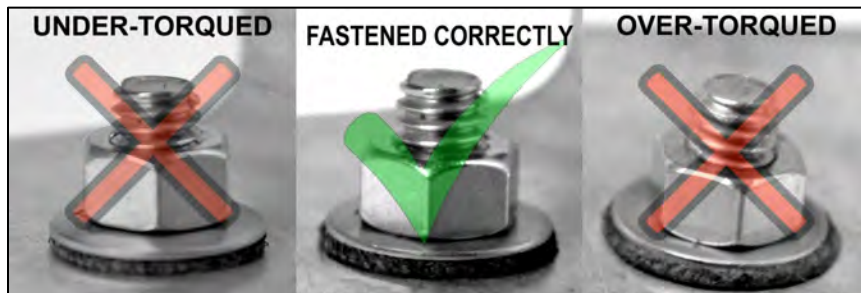
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SnowMax - Membrane Snow Guard Installation Instructions

BRACKET INSTALLATION

1. Place bracket over threaded studs. Top bolt hole should be upslope.

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. 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.

   fig. 1

4. Place SNOWMAX-LITE-BAR into brackets dovetail feature.

5. Install flange bolt into tapped hole on bracket, located behind bar and tighten until bolt bottoms out and bar is secure. (This will be a tight fit to back vertical part of the bar).

SNOW GUARD ACCESSORIES (OPTIONAL)
SnowMax-Color Insert
The face of the bar is designed to accept a 2" wide color insert. This is available in a limited color selection from Alpine SnowGuards. Many installers provide this part themselves using roofing material they have on hand.

SnowMax-Ice Flag-AL
- Ice flags are optional but recommended, at least on bottom tier of guards (assuming project needs more than one tier).
- Ice Flags are cut to length so flag does not rest on roof surface.
- To install, center Ice Flag between brackets and fasten with one Tek screw (provided).
- For brackets spaced 25" wide or wider, install two Ice Flags between brackets, spaced evenly.

Note: Once point of TEK screw is through metal, only tighten enough to engage TEK screw. Do not over-tighten or over-torque with a drill. Tighten by hand only to securely engage flag.

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

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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).
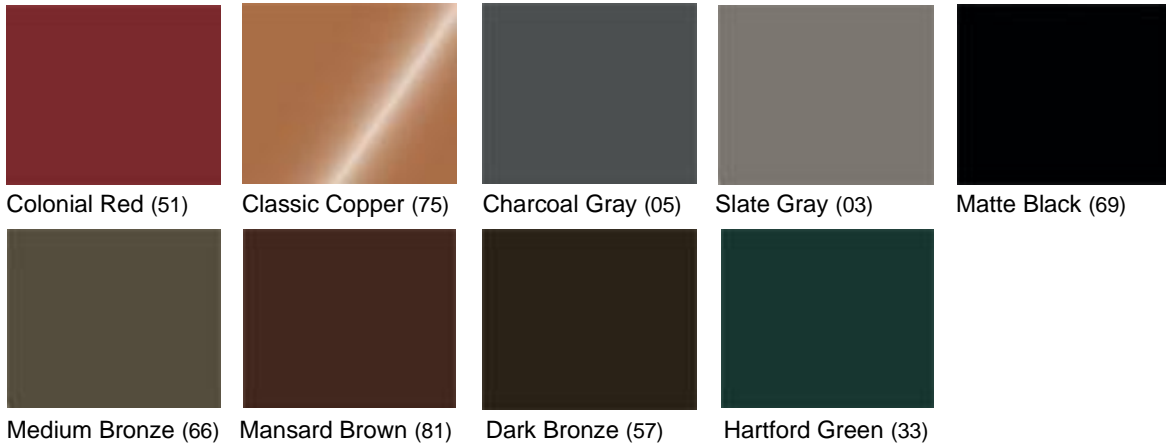- Inspect sealant, tape, and adhesive. Remove and replace as needed.

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Pre-Painted Kynar® Stock Colors
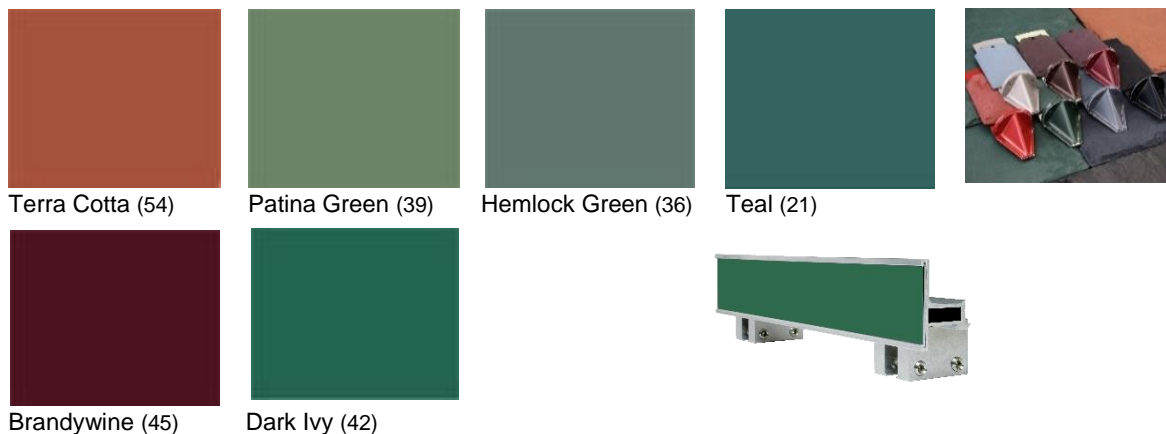### Pad Style Snow Guards and SnowMax Color Insert Strips

UNA-CLAD™ METAL
COLOR SELECTION

Double-Sided Stock Colors

Colonial Red (51) Classic Copper (75) Charcoal Gray (05) Slate Gray (03) Matte Black (69)

Medium Bronze (66) Mansard Brown (81) Dark Bronze (57) Hartford Green (33)

Single-Sided Stock Colors

Terra Cotta (54) Patina Green (39) Hemlock Green (36) Teal (21)

Brandywine (45) Dark Ivy (42)

Compatible Pad Style & SnowMax Fence Style Snow Guards
Pad Style: PD10, PD10R, PD11, PD21, PD30, PD30Z, PD40, PD40R, PD41
Fence Style: SnowMax-Corrugated, SnowMax-Standing Seam,
SnowMax-Membrane 1.5 and Solar SnowMax-Universal

Other Pad Style Material Options

Aluminum (AL) Copper (CU) Freedom Gray™ (FG) Lead-Coated Copper (LC) Rheinzink® (ZN)

Mill Finish aluminum pad-style snow guards can also be powder coated with
RAL TIGER Drylac® Exterior Powder Coatings for an additional charge.