



PD41 and PD410F-CU Pad-Style Snow Guard Submittal Document Set

ROOF TYPES

- New / Existing Tile (Flat, Flat Tile Interlocking, Mission, Round, "S" Tile, Spanish)

AVAILABLE MATERIALS

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

AVAILABLE FINISHES

- Pre-Painted Kynar® Stock Colors

FEATURES/ADVANTAGES

- Pad area is 2 3/8" L x 2 3/8" W (at widest point) x 1 7/16" H
- Standard strap length is 6 1/2" (custom lengths available, less than 6 1/2")
- Maximum hook height is 1 1/4" (custom heights available)
- Our riveted "fish head" design means optimum strength with no risk of unfolding
- Ease of installation eliminates the need for nail hangers
- Ideal solution for the typical short overlap of tile installations
- Custom strap length and hook height available (hook height must be a minimum of 1/2")
- Allows snow and ice to drop off in small amounts or melt completely
- Protects against snow damage at the lower roof level (gutters, valleys, crickets, roof protrusions, plumbing vents, etc...) and at ground level (cars, people, landscaping, pets, walkways, ground-mounted mechanical units)
- Also available with Fleur-de-Lis embellishment (SKU: PD410F-CU, Copper only)



Cut Sheet - PD41

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

- ☐ Aluminum ☐ Lead-Coated Copper
☐ Copper ☐ Rheinzink®
☐ Freedom Gray™

*Some materials may have a 3rd button connecting cap and gusset to strap

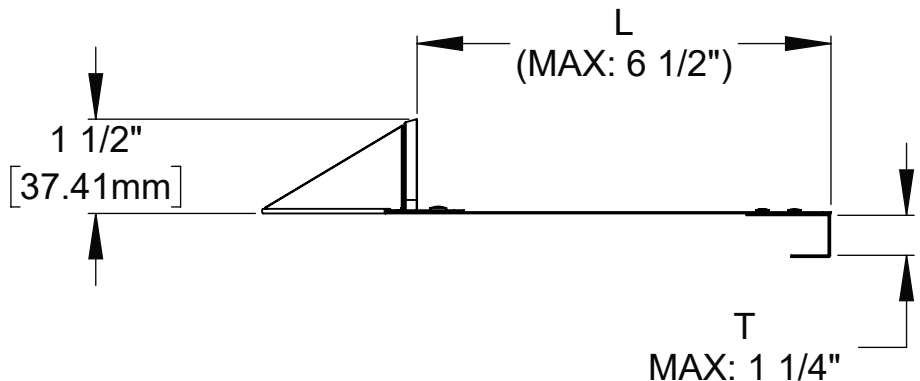
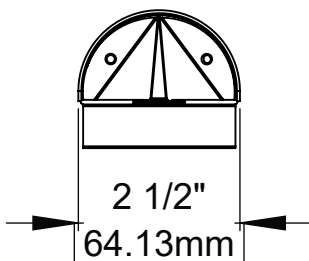
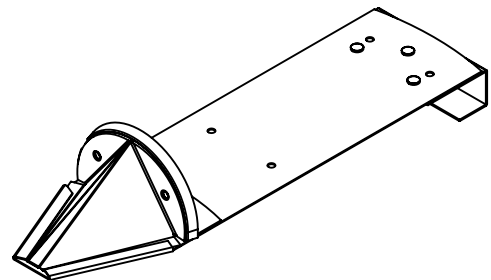
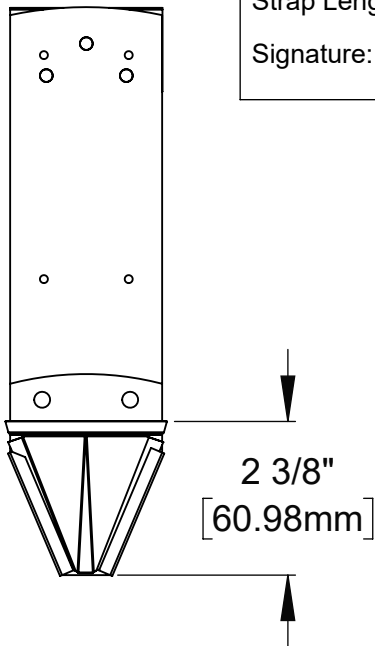
Available Finishes

- ☐ Mill Finish (Standard)
☐ Pre-Painted Aluminum
 (Firestone UnaClad Kynar Color: _____)
☐ Powder Coated
 (Tiger Drylac RAL# _____)

☐ CUSTOM SIZE:

Strap Length (L) = _____ Hook Length (T) = _____

Signature: _____ Date: _____



289 Harrel Street
 Morrisville, VT 05661
 Phone: 1.888.766.4273
 Fax: 1.888.766.9994
 Email: Info@alpinenowguards.com

Scale: 1:3

4/14/2023

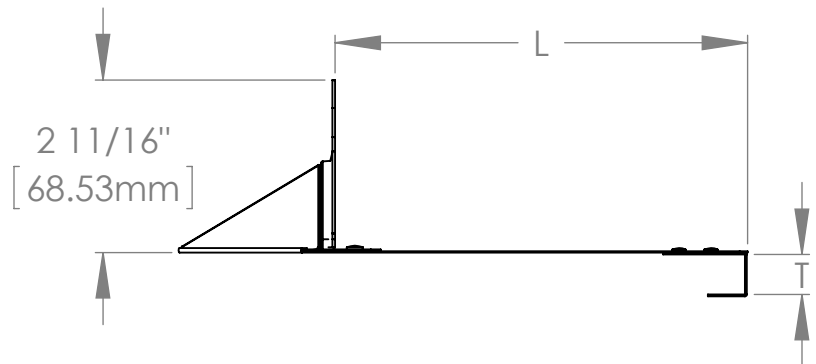
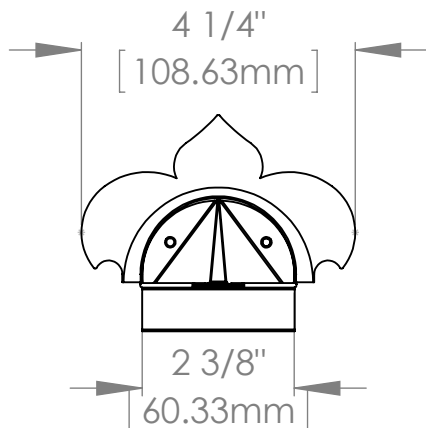
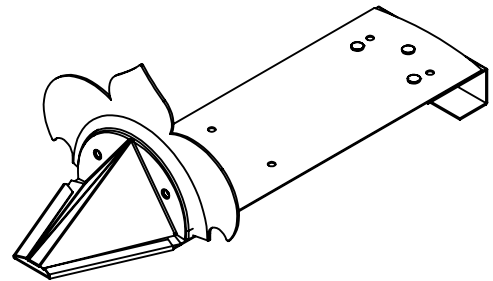
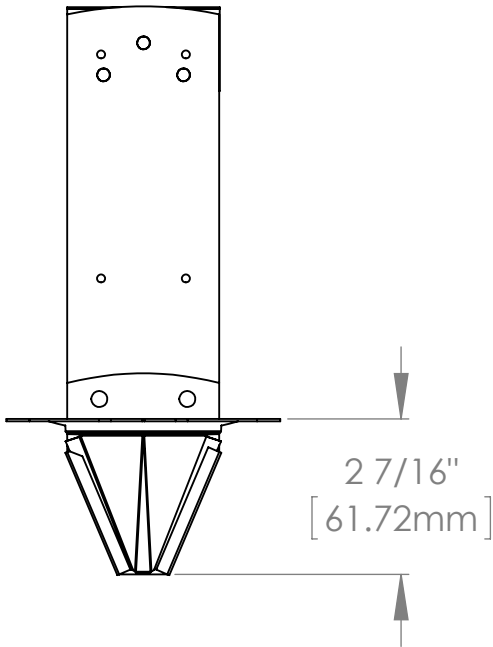
Cut Sheet - PD410F-CU

1. Installation to be completed in accordance with manufacturer's written specifications and installation instructions.
2. See spec sheet or contact manufacturer for detailed material, finishes, and configuration options.
3. Contact manufacturer for detailed layout.
4. Do not scale drawings.
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☐ **CUSTOM SIZE:**

Strap Length (L) = _____ Hook Length (T) = _____

Signature: _____ Date: _____



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Scale: 1:3

10/27/2020



PD41 and PD410F-CU Specification Sheet Snow Guards

Part 1 – GENERAL

1.1 SUMMARY

A. WORK INCLUDES

1. PD41 and PD410F-CU gusseted snow guards that hook over the head of the tile.
2. Coordinate with roof installation to assure proper placement of snow guards.

B. RELATED SECTIONS

- | | |
|---|----------------------------|
| 1. Section 076000: Flashing and Sheet Metal | MasterFormat 2016 07 60 00 |
| 2. Section 073100: Shingles and Shakes | MasterFormat 2016 07 31 00 |
| 3. Section 073200: Roof Tiles | MasterFormat 2016 07 32 00 |
| 4. Section 077253: Snow Guards | MasterFormat 2016 07 72 53 |

1.2 SYSTEM DESCRIPTION

A. COMPONENTS

1. PD41 and PD410F-CU snow guard system consists of individual metal snow guards.

B. DESIGN REQUIREMENTS

1. Spacing to be recommended by manufacturer or building engineer.
2. 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.



PD41 and PD410F-CU Specification Sheet Snow Guards

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. Copper – Strap, cap and gusset are 16 oz copper. Fleur-de-lis embellishment with hook is *only* available in copper and both have a minimum material thickness of .040.
- B. Lead-Coated Copper – 16 oz lead-coated copper.
- C. Aluminum – .032 aluminum; hook is .040 aluminum.
- D. Freedom Gray™ – 16 oz tin-zinc coated copper.
- E. Rheinzink® – .8mm Rheinzink®.

2.3 FINISH (choose one)

- A. Mill Finish – standard.
- B. Powder Coated – available at additional cost.
(Not available for PD410F-CU)
- C. Kynar 500® pre-painted coil – aluminum only.
(Not available for PD410F-CU)

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 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 04.26.23
07 72 53 Snow Guards

PD41 and PD410FCU Snow Guard Installation Instructions

ROOF TYPES

- New / Existing Tile (Flat, Flat Tile Interlocking, Mission, Round, "S" Tile, Spanish)

PRE-INSTALLATION

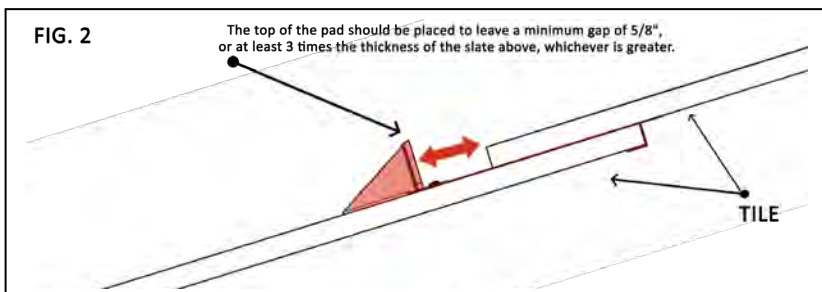
The maximum size for the PD41 is 6 1/2" (L), with a 1 1/4" hook (T) (*fig. 1*)

To determine the appropriate strap length (L), add the amount of hidden tile to 3x the thickness of the tile (*fig. 2*).

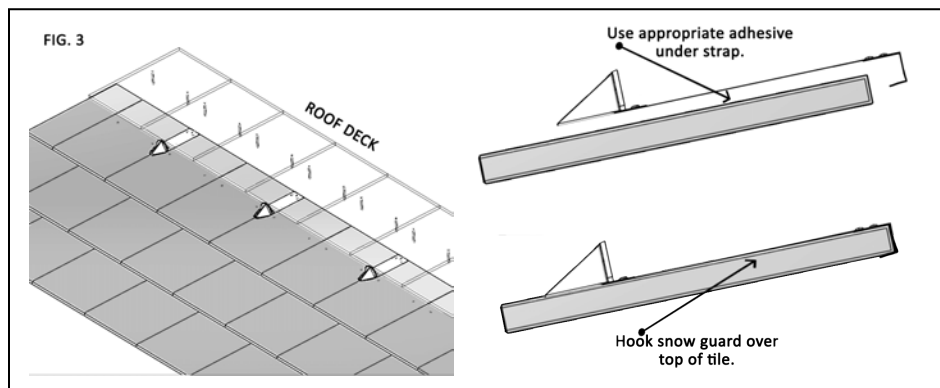
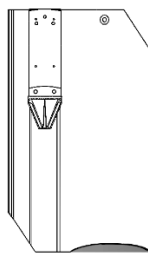
The minimum hook length (T) is 1". For thicker tiles, the hook may need to be longer than the thickness of the tile.

INSTALLATION

1. Starting on the 3rd course of tiles, hook the snow guard over the top of the tile. Use an acceptable sealant under hook/strap to keep snow guard from shifting.



*For projects utilizing Spanish/ Barrel tile, the snow guard should rest in the valley, as shown, as opposed to on top of the tiles rounded section.



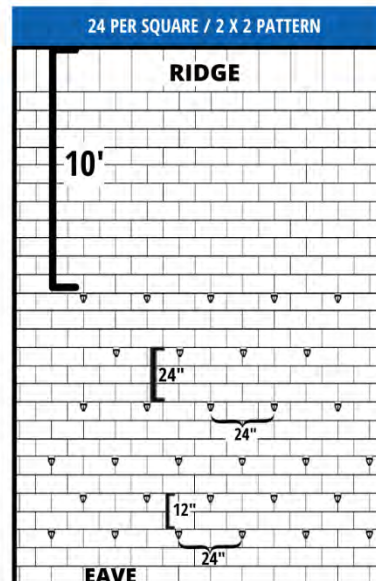
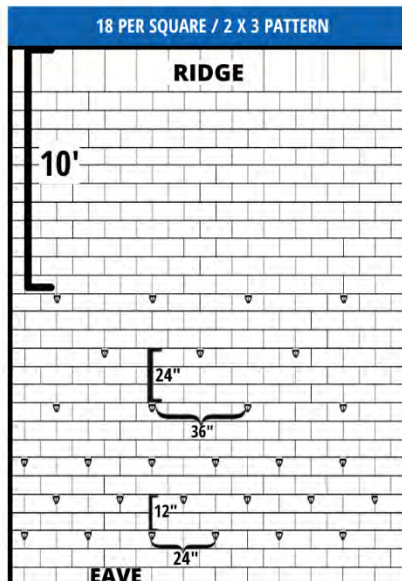
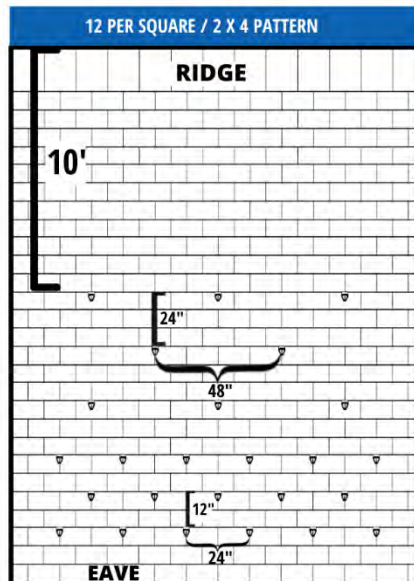
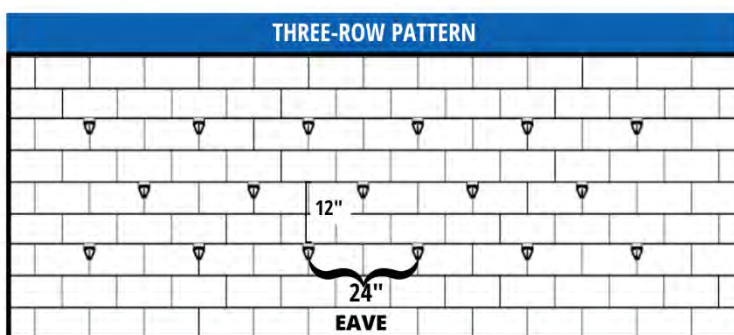
STANDARD SNOW GUARD LAYOUT OPTIONS

IMPORTANT: All layouts begin with a 3-row pattern. Estimated quantities provided include 3-row pattern. If you have any questions, please contact us at 888-766-4273.

PD41 and PD410FCU Snow Guard Installation Instructions

Please use the guidelines below to determine appropriate layout for your installation.

PAD LAYOUT GUIDELINES					
Layout	Rafter Length	Ground Snow Load (PSF)	Roof Pitch	Est. Snow Guard QTY.	Spacing
3-Row Pattern	15' or Less	60 psf or Less	16/12 or Less	17 per 10' of Eave	3 rows, 24" on center horizontally with middle row staggered 12"
2 x 4 Pattern	Greater Than 15'	60 psf or Less	16/12 or Less	12 per roofing square	Space rows 2' vertically and 4' horizontally to within 10' of the ridge.
2 x 3 Pattern	Any	61 - 90 psf	16/12 or Less	18 per roofing square	Space rows 2' vertically and 3' horizontally to within 10' of the ridge.
2 x 2 Pattern	Any	91 - 120 psf	16/12 or Less	24 per roofing square	Space rows 2' vertically and 2' horizontally to within 10' of the ridge.



Document Version 03.14.2023
Snow Guards 07 72 53



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

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



UNA-CLAD™ METAL
COLOR SELECTION

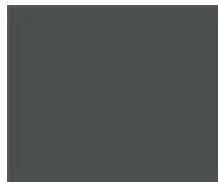
Double-Sided Stock Colors



Colonial Red (51)



Classic Copper (75)



Charcoal Gray (05)



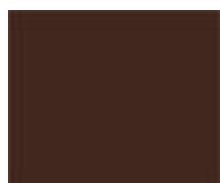
Slate Gray (03)



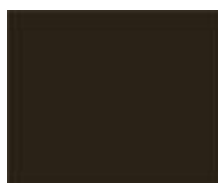
Matte Black (69)



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.