



WR70 Wire Loop Pad-Style Snow Guard Submittal Document Set

ROOF TYPES

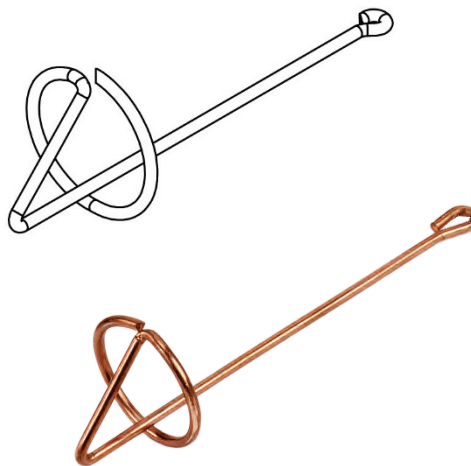
- New Natural Slate
- New Cedar Shingle
- New Composition (Asphalt) Shingle
- New Flat Tile

MATERIALS

- Copper (CU)

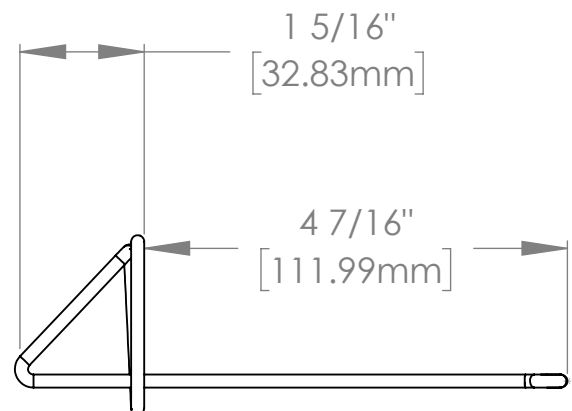
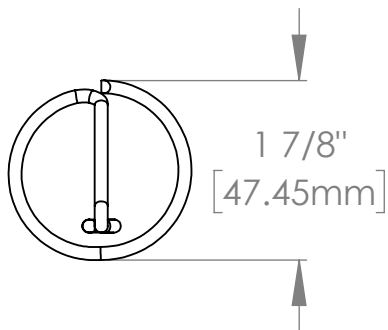
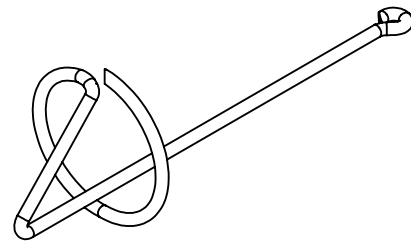
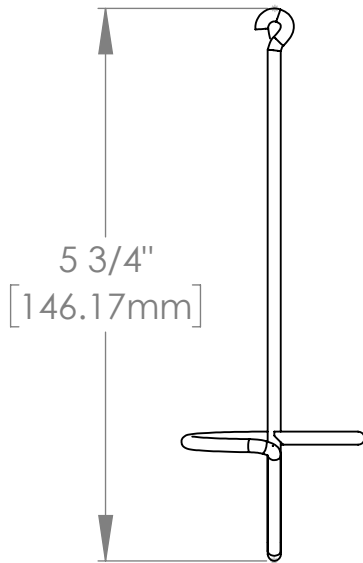
FEATURES/ADVANTAGES

- Single eyelet attachment point
- Wire loop is 1 7/8" in diameter
- Overall height is 1 5/16"
- Overall length is 5 3/4"
- Minimalistic nature of this snow guard reduces appearance of its presence on a roof slope
- Loop design allows for use of appropriate mechanical fastener



Cut Sheet - WR70

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: 1:2

4/14/2021



WR70 Wire Loop Specification Sheet Snow Guards

PART 1 – GENERAL

1.1 SUMMARY

A. WORK INCLUDES

1. WR70 Wire Loop snow guard attaches directly to roof deck.
2. Coordinate with installation of roof to assure proper placement of snow guards.
3. Provide appropriate snow guard and fasteners for roof system.

B. RELATED SECTIONS

- | | |
|--|----------------------------|
| 1. Section 07600: Flashing and Sheet Metal | MasterFormat 2016 07 60 00 |
| 2. Section 07720: Snow Guards | MasterFormat 2016 07 72 00 |
| 3. Section 07320: Roofing Tiles | MasterFormat 2016 07 32 00 |
| 4. Division 7: Thermal and Moisture Protection | |

1.2 SYSTEM DESCRIPTION

A. COMPONENTS

1. WR70 Wire Loop snow guard system consists of individual metal, wire snow guard.
2. 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. Minimum 1 fastener 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.



WR70 Wire Loop 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 wire of .135" diameter

2.3 FINISH

A. Mill Finish – standard

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 04.28.2021
07 72 53 Snow Guards

WR70 Wire Loop Snow Guard Installation Instructions

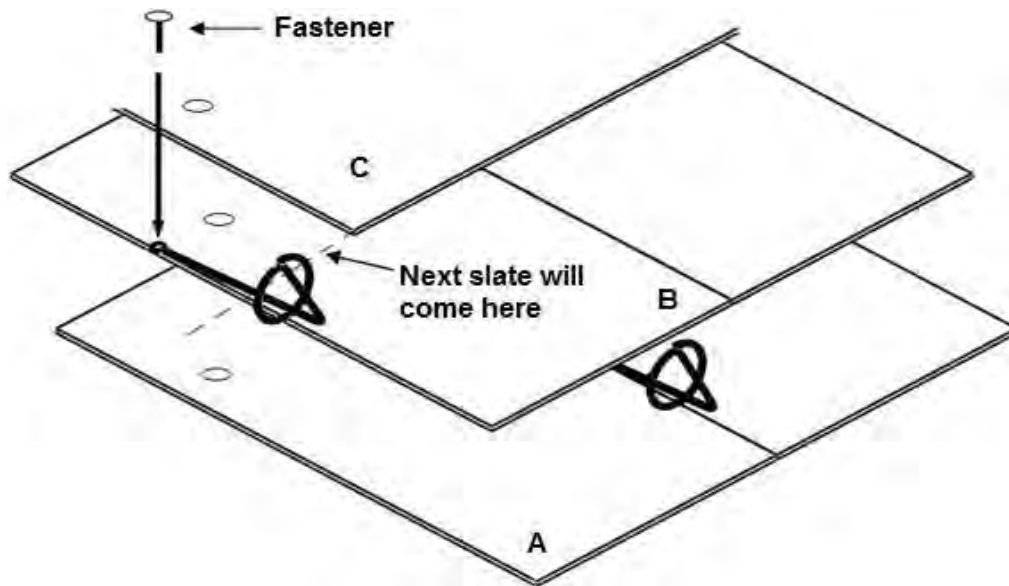
ROOF TYPES

- New Natural Slate
- New Cedar Shingle
- New Composition (Asphalt) Shingle
- New Flat Tile

INSTALLATION

First row of snow guards is placed above outer most wall or support of the building.

1. Quantity depends on roof slope and Ground Snow Load.
2. Insert fastener into eyelet of snow guard and fasten into roof deck above the head of course 'A' and in the joint of slate in course 'B' which snow guard is resting on.
3. Next course of slate, 'C' will cover most of wire strap.
4. Repeat these steps for entire roof surface.
5. This procedure will work for any loose laid shingle roof.



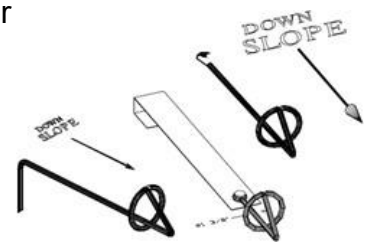
WR70 Wire Loop Snow Guard Installation Instructions

WIRE LOOPS PER ROOFING SQUARE CHART

Roof Pitch (x/12)	Ground Snow Load (Pounds Per Square Foot)						
	30	35	40	45	50	55	60
1	33	33	33	33	33	33	33
2	33	33	33	33	33	33	33
3	33	33	33	34	38	42	46
4	33	34	39	44	48	53	58
5	34	40	46	52	57	63	69
6	39	45	52	58	65	71	77
7	42	49	56	63	70	77	84
8	45	52	60	67	74	82	89
9	46	54	62	70	77	85	93
10	48	56	63	71	79	87	95
11	48	56	64	72	80	88	96
12	48	56	65	73	81	89	97
13	48	56	64	72	80	88	96
14	48	56	64	72	80	88	96
15	47	55	63	71	79	87	94
16	46	54	62	70	77	85	93

Values Above = Snow Guards per Roofing Square

- To estimate project quantities, multiply number of snow guards per roofing square in chart above by number of squares of roof area
- Install snow guards in a regular pattern over entire roof surface to within 5 feet of ridge
- Quantity per square is based on 31lb allowable load (includes 2.0 x safety margin) per snow guard.
- If you have any questions, please contact us at 1-888-766-4273.
- It is highly recommended that you contact the manufacturer for recommended layout.
- Stamped engineering unavailable for this product.



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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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