



Beautify your system. Protect your investment.

Pest Abatement Barrier

Aluminum Self-Adhering Panels for Solar Array Perimeters

Description

The SolaTrim™ Pest Abatement Barrier is an aesthetic, all-weather, long-lasting Pest and Debris abatement system designed to limit environmental impact and pest intrusion to residential solar system arrays. SolaTrim™ specifically blocks pigeons and squirrels from getting under solar systems while allowing air to circulate underneath the solar panels, maintaining a protected area between the roof surface and the bottom of the solar panels.

Modern Adhesive Technology now allows for *permanent* bonding without the use of rivets, screws or other mechanical fasteners. SolaTrim™ applied this remarkable “peel and stick” feature to our barrier panels, making it possible to attain “life of the system” protection with a single, simple installation process.

Features

- Rust and Corrosion resistant 3003-H14 Aluminum panel
- Black polyester coating for low-visibility, matching module backing
- Backside primer coat (standard gray)
- .025” Aluminum stock – stiffened by design to prevent barrier from bending or warping
- Diamond stamping to allow for airflow and temperature regularity.
- Acrylic foam tape backing for permanent adhesion to any module frame configuration



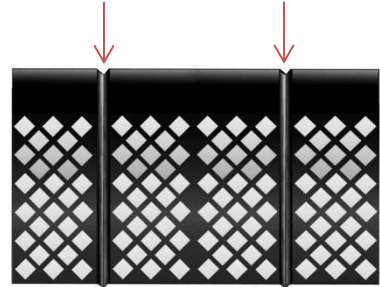
Installation Instructions

Tools Needed:

- Metal shears, tin snips to cut .025" thick aluminum
- Tape Measure
- Clean cotton cloth
- (Optional) Scribe w/ White or yellow marker
- J-Roller

Materials Needed:

- Acetone Wipes (provided in SolaTrim carton)



For Best Results: Fitting, cutting and affixing SolaTrim to the Solar Array, please follow the directions listed below.

- 1) **Solar Module frames must be free of dust, debris or any foreign particles.** Use the Acetone wipes provided to prepare the frames for **SolaTrim's** peel and stick adhesive. Each wipe should be adequate to prep 10-30 feet +/- of module frames. The acetone will dry in a few seconds. **If frames have built-up surface dirt and/or residue, wipe with a wet cloth and dry before prepping with the Acetone wipe.**
- 2) When applying **SolaTrim**, start at the 90° corners of the array and work toward the center. Wherever possible, place full length sections of **SolaTrim** around the corner edges of the modules, bending at the stiffener. **(The ridge, see the arrows on picture above)**
- 3) Scribe the **SolaTrim** pieces against the rooftop material profile so the top of the **SolaTrim** panel will be near or flush to the top of the module frame after sizing. Do not angle the panel. Must be flush with roof.
- 4) Cut the **SolaTrim** piece to fit with tin snips or electric metal shears.
- 5) Dry-fit the piece before peeling off the adhesive to check for proper sizing. (Note: **SolaTrim** pieces do not need to make contact with the roof surface)
- 6) After dry-fit, peel the layer off the adhesive strip and press the **SolaTrim** piece against the module frame. **Apply medium pressure (min. 15lbs PSI) with a J-Roller** along the length of the frame and rub the frame with cotton cloth with medium pressure to help the adhesive "wet out" on the frame surface. **SolaTrim** will stay in place immediately, will reach 80% adhesion in 20 min and 100% adhesion in 72 hours.
- 7) If **SolaTrim** needs to be temporarily removed, simply pull a razor knife blade down the adhesive bead between the module frame and the **SolaTrim** panel. Lightly pull on the **SolaTrim** panel and it should pop off. Replace with a new panel using standard installation method.
- 8) Replacement **SolaTrim** panels may be ordered through Nixalite of America Inc. Call (309) 755-8771 or Visit <https://www.nixalite.com/product/solatrim-pest-barrier>.



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SolaTrim Cold Weather Storage and Installation Recommendations

Storage:

For Best Results, store this product in a climate controlled area between 45°F to 100°F (7°C to 38°C) and 0-95% relative humidity. Under these conditions, SolaTrim Adhesive should retain its properties for up to 24 months.

Note: When planning to install SolaTrim in an ambient temperature environment between 40°-50°F (4°- 10°C), SolaTrim is best used when stored at room temperature before application.

Installation:

The ideal range is 70° - 100°F / 21° - 38°C.

In these conditions, normal Installation methods apply.

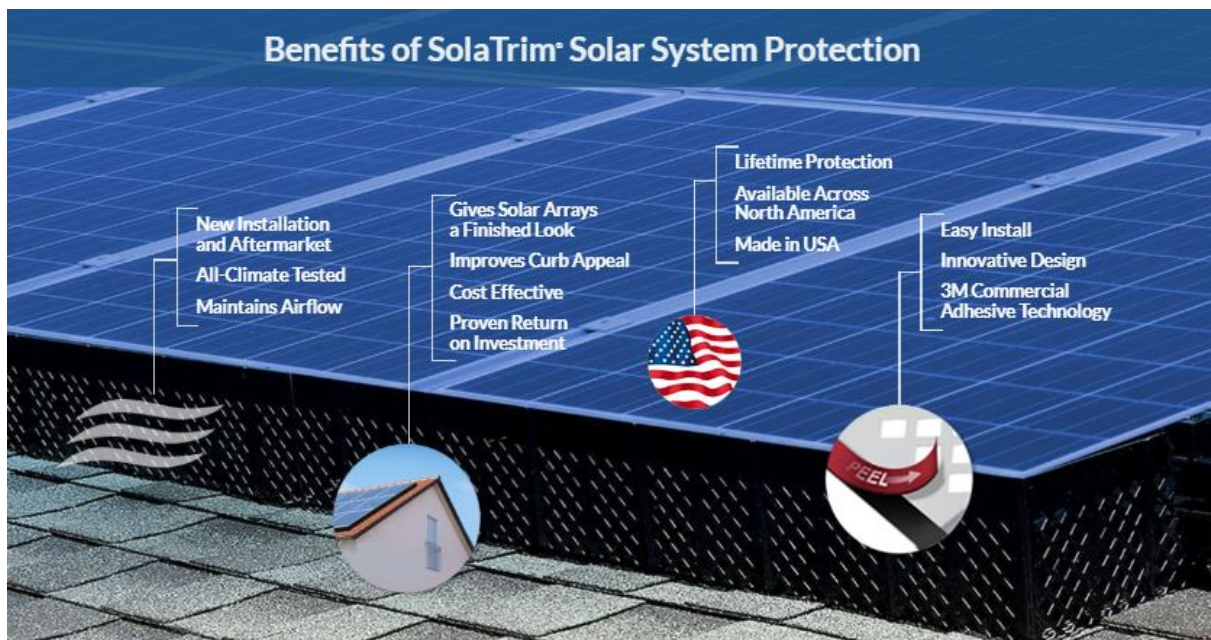
IMPORTANT!

The lowest recommended temperature for SolaTrim application is 40°F / 4°C.

Attempts to install SolaTrim below this temperature may result in unsatisfactory adhesion.

3M VHB tape is pressure-activated and requires a minimum 15lbs PSI for the adhesive to "wet out" and achieve the strongest bond. While we believe, under normal conditions, this PSI threshold can be reached manually, **a J-roller should also be used to increase the pressure on the SolaTrim adhesive to insure adequate adhesive activation spread over the solar module frame, especially for colder weather.***

**This prescribed application process has been tested and deemed effective under similar conditions.*





SolaTrim Pest Abatement Barrier: Solar Panel Protection

Three-Part Architectural Specification – Nixalite of America Inc. 2024

Master Format: Other Specialties - 10 81 00 Pest Control Devices, 10 81 13 Bird Control Devices, 10 82 13 Grills & Screens, and 07 70 00 Roof Accessories.

Part 1 - General

1.1 Section Includes

- Solar panel protection systems, specifically SolaTrim pest abatement barriers for photovoltaic (PV) installations. Provides solar panel protection from birds, rodents, squirrels, and debris.

1.2 References

- ASTM B209 – Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate.
- 3M VHB Tape Standards – Specifications for high-strength acrylic foam adhesive
- tapes.

1.3 Submittals

- Manufacturer's product data sheet, including material and coating specifications.
- Installation instructions and technical support contacts.
- Sample product upon request.

1.4 Quality Assurance

- Installer Qualifications: Installers must have at least one year of experience with similar installations.
- Manufacturer Support: Provide manufacturer's installation guidelines and technical assistance.

1.5 Delivery, Storage, and Handling

- Deliver materials in the manufacturer's original, unopened, undamaged packaging.
- Store materials in a clean, dry location at temperatures above 50°F (10°C).

1.6 Warranty

- Manufacturer's standard limited warranty of 10 years for material defects.

Part 2 - Products

2.1 Manufacturer

- SolaTrim, available through Nixalite of America Inc.
Contact Information:
Nixalite of America Inc.
1025 16th Ave, East Moline, IL 61244
Phone: 800-624-1189
Email: sales@nixalite.com
Website: <https://www.nixalite.com/product/solatrim-pest-barrier>

2.2 Materials

- Aluminum: 3003-H14 alloy, .025-inch thick.
- Coating: UV-stable black polyester outside finish for weather resistance. Grey inside color.

2.3 Adhesive

- High-strength 3M VHB acrylic foam tape for peel-and-stick application.
- Tape strength: Minimum tensile strength of 15 pounds per square inch.

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2.4 Dimensions and Configurations

- Standard Panel Heights: 6.75 inches, 5.5 inches and 4.5 inches.
- Length: 48 inches per piece.

2.5 Accessories

- Acetone wipes and clean cloth for surface preparation.
- J-Roller for applying the correct pressure when installing the barrier to the panel frame.
- Sheet metal snips for cutting and trimming barrier panels

Part 3 - Execution

3.1 Examination

- Verify that surfaces are clean, dry, and free from dust, dirt, or grease.

3.2 Preparation

- Use acetone wipes to clean the solar panel frame where the barrier will adhere.
- Allow surfaces to dry completely.

3.3 Installation

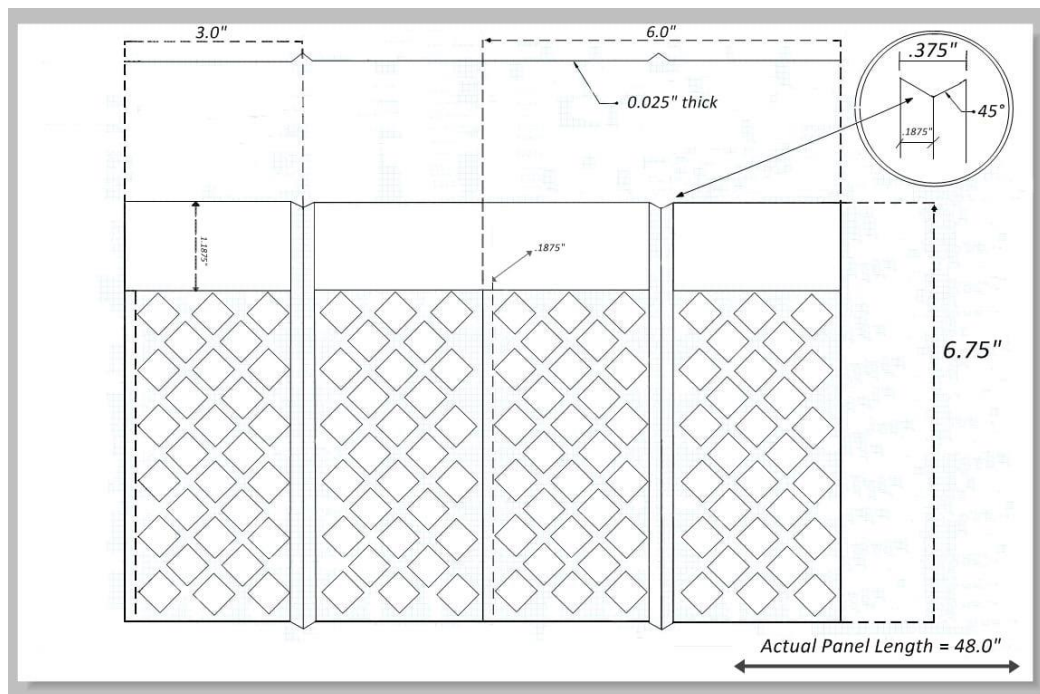
- Dry fit the panels first. Cut barriers as needed for a proper fit around the roof line, mounting brackets and other obstacles
- Peel back the adhesive liner from the 3M VHB tape and apply the SolaTrim barrier to the solar panel frame.
- Firmly press the barrier with a J-roller to achieve a minimum of 15 PSI for optimal adhesion.

3.4 Field Quality Control

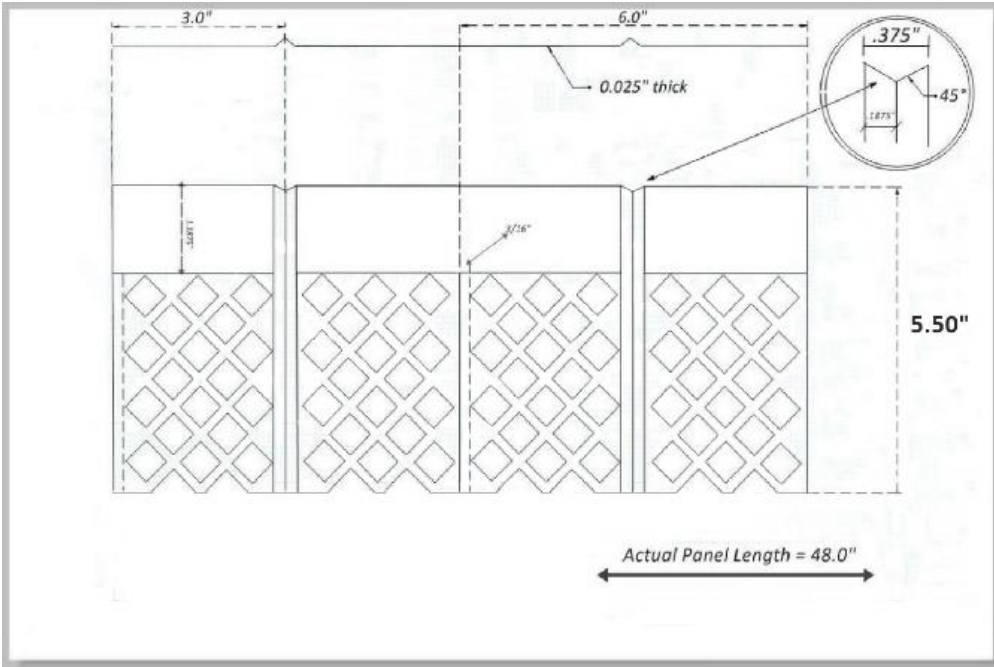
- Inspect installed barriers for gaps, lifting edges, or insufficient adhesion.
- Make necessary adjustments to ensure full coverage and attachment.

3.5 Cleaning and Protection

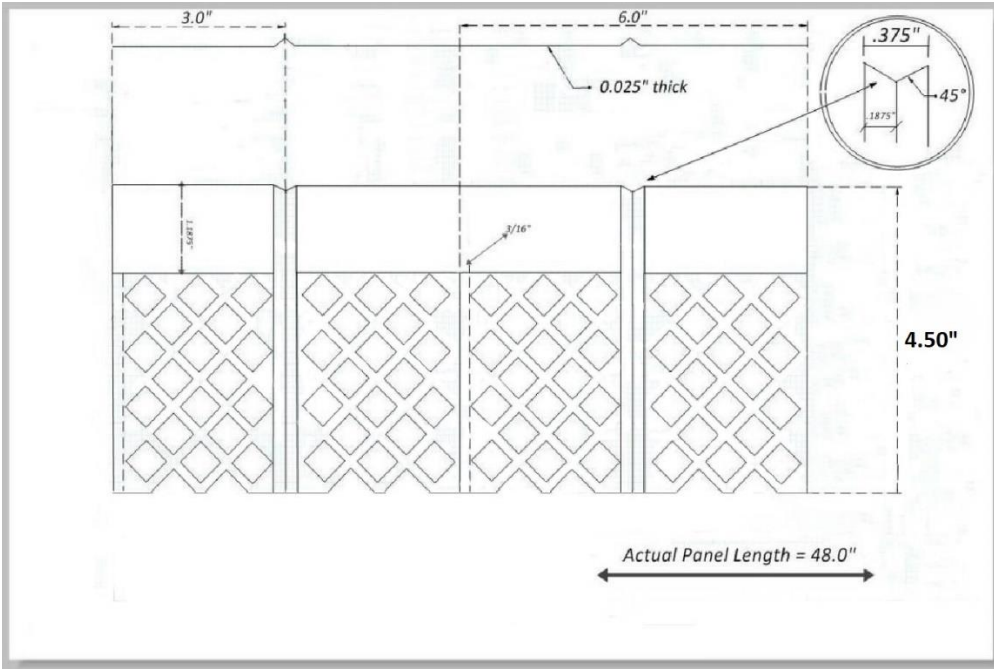
- Remove any installation debris from the work area.
- Avoid contact with cleaning agents or solvents that may degrade the adhesive.



SOLATRIM 6.75 Inch X 48 Inch



SOLATRIM 5.50 Inch X 48 Inch



SOLATRIM 4.50 Inch X 48 Inch



Nixalite[®] of America Inc

Experts in Bird and Animal Control Since 1950
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