

Premium Nixalite® All Stainless Steel Bird Barrier Spikes

Includes specifications for: Premium Nixalite Models S, H and W and Mounting Hardware.

Nixalite of America Inc designs and manufactures the Premium Nixalite All Stainless Steel Bird Barrier Spikes in the USA with materials processed in the USA. These flexible spike strips repel all bird species, in all levels of infestation, on all types of architectural surfaces. They eliminate costly cleaning and structural maintenance caused by pest birds and their filthy habits. They protect people from the health hazards associated with pest bird waste.

There are three (3) separate Premium Nixalite Bird Spike Models; the **Model S**, **Model H** and **Model W**. Each model is designed to fulfill a specific bird control need or application. Nixalite has manufactured these unrivaled bird spike strips since 1950 - there are no approved equals and there are no substitutions allowed. The following specification outline is presented in a modular format making it simple to include or exclude any combination of the Nixalite Premium Bird Control system as needed for each project.

List Nixalite Premium Bird Barrier specifications in the following locations;

Master Format 1995 – 10290 – Bird & Pest Control

Master Format 2004 – 10 81 00 - Pest Control Devices

Master Format 2004 – 10 81 13 – Bird Control Devices

PART 1 - GENERAL

1.1 - SYSTEM DESCRIPTION:

- A. Nixalite Premium All Stainless Steel Bird Barrier Spike Models:** Physical surface barriers designed to prevent all types of pest birds and climbing animals from landing, roosting, nesting or climbing on architectural surfaces, in all infestation levels. There are three (3) Premium Nixalite Bird Spike models available; **Model S**, **Model H** and **Model W**. There is no equal to Nixalite's Premium All Stainless Steel Bird Barrier Spikes. No substitutions are allowed.
- B. Nixalite Bird Spike Mounting Hardware:** Nixalite designed, stainless steel mounting clips combined with mechanical fasteners to hold the Nixalite Premium Bird Spikes to all types of architectural surfaces. All Premium Nixalite mounting hardware is made of stainless steel or non-corrosive materials.
- C. Surface Cleaning System:** Surface disinfectants, deodorizers and personal protection equipment (PPE) that help keep installers safe when neutralizing the potentially hazardous bird or animal wastes that may be present. The cleaning system then sanitizes and deodorizes the surface in preparation of the Premium Nixalite Bird Spike installation.

1.2 - QUALITY ASSURANCE

- A.** Installer to obtain, review and understand Nixalite of America Inc.'s planning guides, estimating worksheets and installation instructions.
- B.** Installer must be completely familiar with the proper installation procedures for the Nixalite Premium All Stainless Steel Bird Spike model or models specified for installation.

- C. Installer must be completely familiar with the specified mounting hardware and mounting hardware installation procedures.
- D. Installer must obtain and record **accurate and complete dimensions for each surface specified for** Premium Nixalite Bird Spike installation. Surface dimensions are what drive Premium Nixalite Bird Spike quantities. Accurate dimensions ensure accurate quotations and material orders.
- E. All specified bird spikes must be MADE IN THE USA from materials PRODUCED IN THE USA.
- F. Installed bird spikes must be Nixalite's Premium All Stainless Steel Bird Barrier Spikes. There are no equals - no substitutions are allowed.

1.3 - SUBMITTALS

- A. Manufacturers literature including: Nixalite Planning Guide, completed Nixalite Estimate Worksheet(s) and installation instructions for the specified Premium Nixalite Bird Spike Model and specified mounting hardware.
- B. Sample of specified Premium Nixalite Bird Spike Model - not less than 2" (5.1cm) in length.
- C. (*If ColorCoat finish*) Sample of Premium Nixalite Bird Spike Model in the specified color.
- D. Sample of specified Nixalite Bird Spike Mounting Hardware.
- E. Premium Nixalite Model S installation instructions and drawings from manufacturer (*if specified*).
- F. Premium Nixalite Model H installation instructions and drawings from manufacturer (*if specified*).
- G. Premium Nixalite Model W installation instructions and drawings from manufacturer (*if specified*)

1.4 – STORAGE & HANDLING

- A. Provide storage and/or protection to keep Premium Nixalite Bird Barrier Spike shipping boxes dry, clean and undamaged. Do not stack or place other packaging or objects on the Premium Nixalite Bird Barrier Spike shipping boxes.
- B. Keep Premium Nixalite All Stainless Steel Bird Barrier Spikes and Mounting Hardware in original packaging until needed for installation.

PART 2 - PRODUCTS

2.1 – ACCEPTABLE MANUFACTURER

- A. Nixalite of America Inc
1025 16th Avenue, PO Box 727, Dept. NI, East Moline, Illinois 61244; U.S.A.
P: 800.624.1189 or 309.755.8771 - F: 800.624.1196 or 309.755.0077
E: birdcontrol@nixalite.com or planning@nixalite.com
www.nixalite.com
- B. ABC Advanced Bird Control – A division of Nixalite of America Inc.
PO Box 727, Dept. NI, East Moline, Illinois 61244, U.S.A.
P: 888.212.8682 or 309.755.4708 - F: 309.755.1865

2.2 – NIXALITE PREMIUM BIRD BARRIER STRIPS

- A. ALL Premium Nixalite Models** are all stainless steel wire and base strip spikes that are made in the USA from materials produced in the USA.
Wires: Stainless steel, 0.041" (1 mm) diameter, full-hard spring temper.
Base Strip: Stainless steel, 0.25" wide x 0.02" thick (6.3 mm x 0.5 mm), full anneal for flexibility, easy strip cutting and surface shape memory.
- B. Premium Nixalite Spike Strip Lengths:** All Premium Nixalite spike strip models are available in 24" (61.0 cm) and 48" (122.0 cm) strip lengths.
- C. Premium Nixalite Model S:** Full row spike, 4" high (10.2 cm), 4" wide (10.2 cm) NO LESS THAN 120 wire points per foot. Full 180-degree wire coverage. For all bird species on all types of surfaces. Use in conjunction with **Premium Nixalite Model W** for climbing animal barrier and mud-nest building bird control applications.
- D. Premium Nixalite Model H:** Half row spike. 4" high (10.2 cm), 2" wide (5.1 cm), NO LESS THAN 60 wire points per foot, 90 degree wire coverage. For flat surfaces less than 2" in depth (5.1 cm) or in conjunction with **Premium Nixalite Model S** on specific surface widths to achieve proper surface protection.
- E. Premium Nixalite Model W:** Wall mount spike. 5-1/2" high (14.0 cm), 3" wide (7.6 cm), NO LESS THAN 120 wires per foot, 180-degree wire coverage. Designed for vertical surfaces only. Use above surfaces less than 2" in depth (5.1 cm) or over other Nixalite Models when specified. Use in conjunction with **Premium Nixalite Model S** for climbing animal barrier and mud-nest building bird control applications.
- F. Nixalite Soft Tip Option:** Available for Premium Nixalite Models **S** and **H** (not available on Model **W**). This replaces the pointed wire tips with flattened wire tips. Otherwise the spike is the same as the regular pointed wire spikes. Use only where frequent human contact is possible (or expected) and bird pressure is low.
- G. Finish:** Natural stainless steel finish or manufacturers ColorCoat finish.
- H. ColorCoat:** standard colors are black, white, gray, tan, brown and bronze. Choose standard color that best suits application. Custom colors available. For custom color: installer must contact manufacturer for color matching procedures.

2.3 – NIXALITE BIRD SPIKE MOUNTING HARDWARE

- A.** To be made of stainless steel or non-corrosive materials. Standard mounting hardware is supplied with Premium Nixalite Bird Barrier Spike Models in set quantities. Mounting Hardware must allow for bird spike strip installation, removal and reinstallation without damaging the installation surface, the spike strips or the mounting system.
- B.** Use the Nixalite Bird Spike Mounting Hardware that best suits the installation surface. All hardware is made of either stainless steel or non-corrosive materials.

<u>Installation Surface</u>	<u>Nixalite Bird Spike Mounting Hardware</u>
Masonry, stone, concrete;	Mounting clip, sheet metal screw, masonry anchor
Wood, plywood, shingles;	Mounting clip, sheet metal screw, washer

Sheet metal, plastic, PVC;	Mounting clip, sheet metal screw, washer
Steel, cast iron, brass, bronze;	Mounting clip, drive screw, washer
Pipes, cables, conduit, grates;	Wire tie, wire tying tool, adhesive

- C. Apply adhesive or sealant in all holes that penetrate the installation surface.** After mounting hardware is installed, apply additional adhesive or sealant over the heads of the sheet metal screws and/or the drive screws. Do not get adhesive or sealant in the hook end of the mounting clips.

D. Optional Fastening:

Glue Clips & Adhesive:

If surface conditions do not allow for the use of the supplied Bird Spike Mounting Hardware, use the Glue Clip and Adhesive installation method. Follow the Glue Clip installation instructions available from the manufacturer.

Custom Forms:

Nixalite offers custom made stainless steel mounting brackets, straps or clamps to hold the Premium Nixalite Bird Spikes to installation surfaces with limited or zero surface penetration requirements. *Contact manufacturer for details on custom form design and/or manufacture.*

2.4 – SURFACE CLEANING SYSTEM

- A. Steri-Fab:** Surface disinfectant and bactericide designed to neutralize bird waste, making it safe for removal. Steri-Fab quickly kills disease causing bacteria, parasites, fungi, insects, etc. This is a non-residual product. It becomes completely inert after it dries. **Do not use with Microcide-SQ on the same surface at the same time.**
- B. Microcide-SQ:** A broad spectrum disinfectant, cleaner and deodorizer used to sanitize hard surfaces as well as fabrics and clothing. Use to kill a wide spectrum of organisms and disease causing bacteria. **Do not use with Steri-Fab on the same surface at the same time.**
- C. Microsan:** Anti-microbial personal protection products to help prevent disease transmittal before, during and after working on and around surfaces contaminated with bird and animal wastes. Use to compliment personal protection equipment standards (PPE).
- D. Safety Equipment:** Nixalite offers personal protection equipment (PPE) to protect personnel from the hazards related to pest bird and animal waste materials.

PART 3 - EXECUTION

3.1 - INSPECTION

- A.** Visually inspect all installation surfaces. Make sure all surfaces are clean, dry and free from debris or other conditions that could impede the workflow of this section. All surfaces must be sanitized and deodorized before Premium Nixalite Bird Spike installation.
- B.** Notify architect of detrimental conditions. Do not proceed until these conditions have been corrected.

3.2 - PREPARATION

- A. Field Measurements:** Verify the dimensions for each surface specified for Premium Nixalite Bird Spike installation. Use manufacturers Planning Guides and Estimate Worksheets to verify that sufficient quantities of bird spike strips will be installed on EACH surface specified for bird control.
- B.** Make sure all installation surface finishing requirements have been accomplished before installing Premium Nixalite Bird Spike Models. They are to be the last items installed on each specified surface. DO NOT apply any surface coating or treatment (paint, sealer, etc.) over the installed Premium Nixalite Bird Spike Models or the mounting hardware.
- C.** Remove or relocate all plants, foliage or foreign objects that overhang the installation surfaces. Note all conditions that could adversely affect the installation and performance of the Premium Nixalite Bird Spike installation.

3.3 – SURFACE CLEANING

- A.** All surfaces to be clean, dry and free of obstructions before the Premium Nixalite Bird Spikes are installed.
- B. If Bird Waste Is Present:**
Treat, neutralize and safely remove all bird waste from installation surfaces. Installer must follow all municipal, state and federal regulations regarding the proper removal and disposal of bird droppings and waste materials such as nests and dead birds.
- C.** Use Nixalite's surface cleaning products to neutralize any bird droppings, nests and related waste materials that may be present. Allow all surfaces to air dry completely, and then reapply to sanitize and deodorize the surface before proceeding. Strictly follow treatment instructions provided with Nixalite's surface cleaning products.
- D.** Use Nixalite anti-microbial and anti-bacterial personal protection products to help prevent disease transmittal when working around surfaces contaminated with bird droppings.

3.4 - INSTALLATION

- A.** Make sure the installation surfaces are clean, dry and free of any debris or obstructions.
- B.** Install specified Premium Nixalite Bird Spike Models in strict accordance with manufacturer's spike strip spacing and installation guidelines. Protect all surfaces where pest birds can land, roost and nest.
- C.** Install Nixalite's bird spike strips so they will protect the entire surface, not just the outside edges. No gaps are allowed in the bird spike strip coverage. Cut the bird spike strips where necessary to fit the surface properly.
- D.** Wires of Premium Nixalite Bird Spike Models must extend over outside edges of each surface by at least 1/4" (0.6cm). The bird spike base strip must extend over the ends of each surface by at least 1/2" (1.2cm).

- E. Fasten Premium Nixalite Bird Spike Models to the surface with the mounting hardware recommended by the manufacturer. Follow the hardware spacing guidelines and installation procedures supplied by manufacturer.
- F. **Premium Nixalite Model S;** A full row spike strip model that repels all bird species on all types of surfaces. Use in conjunction with **Premium Nixalite Model W** for climbing animal barrier and mud-nest building bird control applications.
- G. **Premium Nixalite Model H;** A half row spike strip used on flat horizontal surfaces less than 2” in depth (5.1 cm). Use in conjunction with **Premium Nixalite Model S** on specific surface widths to achieve proper coverage and protection.
- H. **Premium Nixalite Model W;** A wall-mount spike strip used on vertical surfaces only. **Do not install horizontally (down flat).** Install above surfaces less than 2” in depth (5.1 cm) or over other Nixalite Models when specified by manufacturer. Use in conjunction with **Premium Nixalite Model S** for climbing animal barrier and mud-nest building bird control applications.
- I. **Climbing Animal Barrier Installations;**
All climbing animal barrier installations use the standard pointed wire **Premium Nixalite Model S** and **Model W** bird spike strips. DO NOT use Soft Tip option for spikes installed as a climbing barrier. Installed in multiple rows, the Premium Nixalite spikes can repel the most determined climbing animals. Contact the manufacturer for installation guidelines for climbing animal barrier applications.
- J. **Physical Security System Enhancements;**
Premium Nixalite All Stainless Steel Barrier Spikes can be used to enhance **existing** physical perimeter security systems. Install barrier spikes on key surfaces to deny entry or egress by unauthorized personnel. For best results, install Premium barrier spikes with other physical security barriers. Use the mounting systems recommended by the manufacturer.

3.5 – ADJUSTMENTS / CLEANING

- A. Remove debris and waste materials from project site. Inspect finished installation. Make any adjustments needed to conform to Nixalite’s spacing and installation guidelines.
- B. Premium Nixalite All Stainless Steel Bird Barrier Spikes are a physical and passive barrier. They rely on the system of pointed stainless steel wires to deny pest birds and nuisance animals access to the surfaces on which they are installed. Periodic inspections are recommended to keep the bird spike strips in good condition.
- C. Occasionally, debris may fall onto the wires or birds may drop materials into the wires in an attempt to build a nest. If this happens, begin a monthly inspection of the system to remove any debris and to check the condition of the installed bird spike strips.

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