

E-Spike™ All Stainless Steel Economy Bird Spikes

Includes specifications for: E-Spike Full Row and Half Row Bird Spike Models.

Nixalite of America Inc designs and manufactures the E-Spike All Stainless Steel Economy Bird Spikes in the USA with materials processed in the USA. These high quality, low cost flexible bird spike strips deter pigeons and seagulls on all types of architectural surfaces. Not intended for small birds or where there are heavy populations of any bird species. Effective E-Spike installations help eliminate the costly cleaning and structural maintenance caused by pest birds. They help protect people from the health hazards associated with pest bird droppings.

There are two (2) separate E-Spike All Stainless Steel Economy Bird Spike models; the **Full Row Model** (previously model 6405) and the **Half Row Model** (previously model 3405). Each E-Spike model is designed to fulfill a specific bird control application. E-Spike Economy Bird Spikes are unique in that they provide superior all stainless steel construction at a cost that is comparable or lower than plastic or composite spikes. There are no approved equals and no substitutions are 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 E-Spike All Stainless Steel Economy Bird Spike 3-part 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. E-Spike All Stainless Steel Economy Bird Spikes:

A physical bird spike deterrent designed to prevent pigeons and seagulls from landing on all types of architectural surfaces. There are two (2) E-Spike models available; **Full Row** and **Half Row**. Do not use for small bird species or heavy infestations of any bird. E-Spike All Stainless Steel Economy Bird Spikes have no equal. No substitutions are allowed.

B. E-Spike Fastening:

E-Spike bird spike strips can be fastened to all types of installation surface materials with Nixalite's optional Bird Spike Mounting Hardware, glue clips and adhesive or just adhesive. All mounting hardware is optional and is purchased separately.

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 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 E-Spike All Stainless Steel Economy 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 E-Spike Economy Bird Spike installation. Surface dimensions are what drive E-Spike Bird Spike totals. 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 E-Spike All Stainless Steel Economy Bird Spikes. There are no equals and no substitutions are allowed.

1.3 - SUBMITTALS

- A.** Nixalite E-Spike literature including: E-Spike Installation Guide, completed estimate worksheets and installation instructions for the specified E-Spike Model.
- B.** Sample of specified E-Spike Model - not less than 2" (5.1cm) in length.
- C.** *(If ColorCoat finish)* Sample of specified color.
- D.** Nixalite E-Spike Full Row Model installation guidelines from manufacturer *(if specified)*.
- E.** Nixalite E-Spike Half Row Model installation guidelines from manufacturer *(if specified)*.

1.4 – STORAGE & HANDLING

- A.** Provide storage and/or protection to keep E-Spike bird spike shipping boxes dry, clean and undamaged. Do not stack or place other packaging or objects on the E-Spike bird spike shipping boxes.
- B.** Keep E-Spike and optional Nixalite Bird Spike 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 – E-SPIKE ECONOMY BIRD SPIKE

- A. ALL E-Spike Bird Spike 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. E-Spike Bird Spike Strip Lengths:** All E-Spike Models are available in 24” (61.0 cm) and 48” (122.0 cm) bird spike strip lengths.
- C. E-Spike Full Row Model:** 4” high (10.2 cm), 6” wide (15.2 cm), NO LESS THAN 48 wire points per foot. Full 180-degree wire coverage. For pigeons and seagulls on all types of surfaces. Not for small birds or for the prevention of heavy infestations of any bird.
- D. E-Spike Half Row Model:** 4” high (10.2 cm), 3” wide (7.6 cm), NO LESS THAN 24 wire points per foot, 90-degree wire coverage. For flat, single exposed surfaces less than 3” in depth (7.6 cm) or in conjunction with the E-Spike Full Row Model on specific surface widths to achieve proper surface coverage. For pigeons and seagulls only – not for small birds or for the prevention of heavy infestations of any bird.
- E. E-Spike Soft Tip Option:** Available for Full Row and Half Row E-Spike Models. This option replaces the pointed wire tips with flattened wire tips. Otherwise the spikes are the same as the regular pointed wire models. Use only where frequent human contact is possible (or expected) and where pigeon and seagull populations are low.
- F. Finish:** Natural stainless steel finish or manufacturers ColorCoat finish.
- G. 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.** E-Spike All Stainless Steel Economy Bird Spikes can be fastened with Nixalite’s optional (sold separately) Bird Spike Mounting Hardware, Glue Clips and Adhesive or just adhesive.
- B.** If using the Bird Spike Mounting Hardware choose the hardware assemblies that best suit your installation surface materials. 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. 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.

E. Custom Forms;

Nixalite offers custom made stainless steel mounting brackets, straps or clamps to hold the E-Spike All Stainless Steel Economy 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.

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 E-Spike Economy 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 E-Spike 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 E-Spike Bird Spike Models or mounting systems.
- 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 E-Spike Economy Bird Spike installation.

3.3 – SURFACE CLEANING

- A.** All surfaces to be clean, dry and free of obstructions before the E-Spike Economy 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 E-Spike All Stainless Steel Economy Bird Spike Models in strict accordance with manufacturer’s E-Spike strip spacing and installation guidelines. Protect all surfaces where pest birds can land, roost and nest.
- C.** Install Nixalite’s E-Spike 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 E-Spike Bird Spike Models must overhang or be flush to the outside edges of each surface. The E-Spike base strip must extend over the ends of each surface by at least 1/2” (1.2 cm).
- E.** Fasten E-Spike Models to the surface with the optional Nixalite Bird Spike mounting hardware as recommended by the manufacturer. Follow the hardware spacing guidelines and installation procedures supplied by manufacturer.
- F. E-Spike Full Row Model:** For pigeons and seagulls on all types of surfaces. Not for small birds or for the prevention of heavy infestations of any bird.

G. E-Spike Half Row Model: For flat, single exposed surfaces less than 3” in depth (7.6 cm) or in conjunction with the E-Spike Full Row Model on specific surface widths to achieve proper surface coverage. For pigeons and seagulls only – not for small birds or for the prevention of heavy infestations of any bird.

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 E-Spike Bird Spike spacing and installation guidelines.
- B.** Nixalite’s E-Spike All Stainless Steel Economy Bird Spikes are a physical and passive barrier. They rely on the system of pointed stainless steel wires to deter pest birds and nuisance animals from getting 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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