

# **FliteLine® Post & Wire Bird Deterrent**

**Includes specifications for: FliteLine system components**

Nixalite of America Inc offers the FliteLine Post & Wire Bird Deterrent System. This is an inconspicuous spring-tensioned, suspended cable system designed to deter pigeons and seagulls from landing on all types of surfaces when bird pressure is light. A thin, spring tensioned stainless steel cable is run between a series of stainless steel posts. Installed at different heights, the cable makes the surface a much more difficult prospect for pigeons and seagulls.

FliteLine is comprised of individual components that when put together properly, create a discreet and humane deterrent that can be installed on any surface material and shape. If small birds are present or if there is a heavy infestation of any bird species, use a bird barrier system such as Nixalite's Premium All Stainless Steel Barrier Spikes or Bird Exclusion Netting.

The following specification outline is presented in a modular format making it simple to include or exclude any combination of the FliteLine Bird Deterrent System as needed for each project.

List Nixalite's FliteLine Post & Wire Deterrent 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. FliteLine Post & Wire SYSTEM:** individual components that when assembled properly create a discreet pigeon and seagull surface deterrent that can be installed on all types of surface materials and shapes.
- B. FliteLine Posts:** Nixalite offers 5 different types of FliteLine posts. All posts are 100% stainless steel and provide single or double FliteLine Cable capacities. Posts both support and suspend FliteLine Cable above the installation surface.
- C. FliteLine Cable:** All stainless steel aircraft quality 1x7 strand cable with a UV poly jacket. Fasten to posts with the FliteLine springs and ferrules. UV poly jacket makes loop connections simple.
- D. FliteLine Springs:** All stainless steel tension springs with one closed loop end and one open loop end. The springs fasten one end of FliteLine cable run to a FliteLine post. The opposite end of the run is fastened with a loop connection using FliteLine Ferrules.
- E. FliteLine Ferrules:** A nickel plated copper, single-barrel ferrule that crushes down on the FliteLine cable. Used in loop connections.
- F. FliteLine Hardware and Accessories:** Nixalite offers a variety of FliteLine hardware and accessories to fasten the FliteLine to nearly any surface material. FliteLine tools and accessories are available to make the installation process a much more efficient process.

**G. Surface Cleaning System:** surface disinfectants and deodorizers to neutralize potentially hazardous bird and/or animal wastes and properly prepare the surface for installation.

## 1.2 - QUALITY ASSURANCE

- A. Installer must obtain, review and understand all available FliteLine Post & Wire product brochures and installation guidelines. Contact a Nixalite technical representative to discuss installation procedures and requirements before installation.
- B. Installer must be completely familiar with the proper installation procedures for the FliteLine Post & Wire products specified.
- C. Installer must be completely familiar with the specified method of fastening the FliteLine Post & Wire System to the surface.
- D. Installer to have a working knowledge of simple cable connections connections, be able to perform simple mechanical procedures and be able to improvise and/or adapt the FliteLine system (if needed) to meet the conditions of the installation.
- E. All parts used for this bird control system must be genuine FliteLine Post & Wire components. No substitutions are allowed.

## 1.3 - SUBMITTALS

- A. FliteLine Post & Wire literature including: FliteLine product brochure and Installation Guidelines.
- B. The installer must provide an outline of FliteLine Post & Wire installation procedures. Outline to be tailored to suit the parameters of each location.
- C. Installer to provide list of FliteLine Post & Wire components used to complete the installation. Each list is to be tailored to the requirement of each surface. For multiple areas, each area to have its own lists of FliteLine Post & Wire items.

## 1.4 – STORAGE & HANDLING

- A. Provide storage to keep all FliteLine and surface cleaning system shipping boxes dry, clean and undamaged. Do not stack or place other packaging or objects on the FliteLine shipping boxes.
- B. Keep the FliteLine, mounting hardware and surface cleaning products 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.

Ph: 800.624.1189 or 309.755.8771 - Fax: 800.624.1196 or 309.755.0077

E-mail: birdcontrol@nixalite.com or planning@nixalite.com

Web: 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.

Ph: 888.212.8682 or 309.755.4708 – Fax: 309.755.1865

E-mail: info@abcbirdcontrol.com

Web: www.abcbirdcontrol.com.

## 2.2 – FLITELINE GUIDE POST AND WIRE BIRD BARRIER

### A. FliteLine Posts:

Nixalite offer several different types of Flite Posts – each with its own purpose and application.

- a) **FliteLine Post with Base:** All stainless steel, 2 line capacity posts welded to a 1-3/4” (4.4 cm) square stainless steel base. Posts come in 3-1/2” (8.9 cm) and 5” (12.7 cm) heights. Stainless steel base has 4 mounting holes for the appropriate mechanical fasteners (purchased separately) or to give more surface area if adhesive must be used (not recommended).
- b) **FliteLine Post with Nail Point:** All stainless steel, 2 line capacity posts with a nail point at one end. Available in two sizes: 4-1/2” (11.5cm) and 6” (15.3cm) in height. Use for masonry and wood surfaces. Masonry surface application requires the FliteLine Anchors (purchased separately) designed for the FliteLine posts. For wood or composite applications, predrill 1” (2.54 cm) deep pilot holes.
- c) **FliteLine Post with Rail Clamps:** All stainless steel, 1 line capacity posts welded to stainless steel hose clamps of varying sizes. Attaches to round rails, pipes, cables and other suspended objects.

#FLRC01 – Flite Post Rail Clamp 5/8” to 1” (1.6 cm to 2.5 cm)

#FLRC02 – Flite Post Rail Clamp 1” to 2” (2.5 cm to 5.0 cm)

#FLRC03 – Flite Post Rail Clamp 2” to 3” (5.0 cm to 7.6 cm)

#FLRC04 – 2\* Flite Post Rail Clamp 3” to 4” (7.6 cm to 10.1 cm)

#FLRC06 – 2\* Flite Post Rail Clamp 5” to 6” (12.7 cm to 15.2 cm)

\* 2 FliteLine posts on each rail clamp.

- d) **FliteLine Post with Horizontal Clamp:** All stainless steel, 2 line capacity post welded to an all stainless steel saw-tooth clamp that fits over edges and objects up to 3/4” (1.9 cm) thick.
- e) **FliteLine Post with Vertical Clamp:** All stainless steel, 1 line capacity post welded to an all stainless steel saw toothed clamp that fits over edges and objects up to 3/4” (1.9 cm) thick.
- f) **FliteLine Post with Hammer-On Flange Clip:** All stainless steel, 1 line capacity post welded to an all stainless steel hammer-on flange clip that fits flanges up to 1/4” (0.6 cm) thick.
- g) **FliteLine Plastic Base for Nail Point Posts:** UV resistant plastic base with 4 mounting holes that mounts 1 FliteLine Post with a Nail Point.

**B. Flite Cable:** UV resistant poly-jacket over a 1x7 stainless steel aircraft cable. 1/32” (0.8 mm) diameter – 110 lb.(50 kg) breaking strength. FliteLine Cable comes in 100’ (30.5 m), 300’ (91.4 m) and 600’ (182.8 m) spools.

**C. Flite Springs:** All stainless steel 1/4” x 1/2” (0.6 cm x 1.2 cm) tension springs. Closed loop on one end, quarter open loop at the other end. FliteLine Springs tension the FliteLine Cable.

**D. Flite Ferrules:** Nickel plated copper ferrules are used to create quick and easy cable loop connections. FliteLine Ferrules are crimped onto the FliteLine Cable. The FliteLine Crimp Tool is a required accessory (sold separately).

**E. FliteLine Anchors:** Nylon grip plug anchor for fastening the Nail Point FliteLine Posts in to a solid masonry surface. Requires 1/4” hole, 1-1/8” deep (6.35 mm hole x 28.6 mm deep).

**F. FliteLine Tools and Accessories:** Nixalite offers the tools and accessories needed for an effective installation. Each installation must include a FliteLine Crimping Tool to crimp the FliteLine Ferrules at each loop connection.

## 2.3 – SURFACE CLEANING SYSTEM

- A. **Microcide-SQ:** surface cleaner and deodorizer to sanitize surface and remove any residual odor from bird inhabitation. Do not use with Steri-Fab on the same surface.
- B. **Microsan:** anti-bacterial soap and lotion to prevent disease transmittal after working around surfaces contaminated with bird & animal wastes. Use to compliment personal protection equipment standards (PPE).

## 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 surface depth and length dimensions for each installation surface. Use FliteLine Post & Wire Brochures and Installation Guidelines to make sure you have sufficient quantity of FliteLine components to properly protect the specified surfaces.
- B. Make sure all installation surface finishing requirements have been accomplished before installing FliteLine Post & Wire bird deterrent. FliteLine should be the last item installed on specified surfaces. DO NOT apply any surface coating or treatment (paint, sealer, etc.) over the installed FliteLine Post & Wire.
- 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 FliteLine Post & Wire bird deterrent installation.

### 3.3 – SURFACE CLEANING

- A. All surfaces to be clean, dry and free of obstructions before bird control is installed.
- B. **If Bird Waste Is Present:**  
Treat, neutralize and safely remove all bird waste from installation surfaces. Installer must follow all city, state and federal regulations regarding the proper removal and disposal of bird droppings.
- 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-bacterial personal protection products to help prevent disease transmittal when working around surfaces contaminated with bird droppings.

### 3.4 - INSTALLATION

- A. Install the FliteLine Post & Wire Bird Deterrent System as recommended by the manufacturer, strictly following the FliteLine row spacing and installation guidelines provided by the manufacturer.
- B. Space and install guide posts per manufacturers spacing guidelines. Use the recommended combinations of guide post heights and multiple cable runs as recommended by manufacturer.

**C. Row Spacing Guidelines:**

Maximum space between FliteLine rows: 3” (7.6cm).  
Maximum space from all edges and walls: 1” (2.5cm).

**D. Post Spacing Guidelines:**

FliteLine is installed in 10 ft. (3 m) maximum length sections. Each section consists of 2 anchor posts (at each end) and 1 guide post (in the middle). If running continuous sections (end-to-end), the last anchor post in a section will serve as the first anchor post of the following section.

- a) Maximum space between Anchor Posts: 10 ft. (3m).
- b) Maximum space between Anchor Posts and Guide Posts: 5 ft. (1.5m).
- c) Guide Posts are not required for sections less than 5 ft. (1.5m) long.

**E. For Best Results:**

**Multiple row installations:** alternate post heights for each row. The first row will always consist of all short posts; the next row will be all tall posts (and so on). **Single row installations** will always be tall posts with both cables installed.

**F. Install both cables** at all outside edges of a FliteLine installation. This includes the “gate” cables (closing the gate) at the ends of an installation.

**G.** Protect the entire surface, not just the outside edge of a surface. Follow all the spacing guidelines provided by manufacturer.

**H. Cable Connections:**

The Flite Cable is connected to the anchor posts at each end of a section. One end is a simple loop connection that uses a Flite Ferrule for fastening. The cable is passed through the guide posts (if required) and then fastened the closed end of a Flite Spring using another loop connection. The open end of the Flite Spring is then hooked through the appropriate hole in the Flite Post.

**I.** Create a loop connection by passing the cable through the FliteLine Ferrule, through the closed end of a FliteLine Spring or hole of a FliteLine Post, and back through the Ferrule. Pull the tag end of the cable tight and crimp the FliteLine Ferrule using the FliteLine Crimping Tool.

**3.5 – ADJUSTMENTS / CLEANING**

- A.** FliteLine Post & Wire is a passive pigeon and seagull deterrent. It relies on the system of suspended stainless steel wires to help deter pigeons and seagulls. Periodic inspections are recommended to keep the wires and posts in good condition.
- B.** 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 check all wire and spring connections to prevent the FliteLine cables from coming loose.

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