

# PollyNet Bird Netting System

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

List Nixalite PollyNet 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. **PollyNet Bird Exclusion Netting** is constructed of black, UV resistant polypropylene. The knotless mesh is effective in excluding birds of all sizes. PollyNet Bird Netting is available in two grades, **Premium** and **Lightweight**.
- B. **Bird Netting Hardware** fastens the bird netting to all types of surface shapes and materials. A variety of netting installation tools and accessories are available to make the netting installation an efficient process.
- C. **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 PollyNet and Bird Netting Hardware installation guidelines.
- B. Installer must be completely familiar with the proper installation procedures for the PollyNet and Bird Netting Hardware.
- C. Installer should contact manufacturer for any updated or newly developed planning or procedural information that may be pertinent to the PollyNet installation.
- D. PollyNet Bird Netting to be made in the USA.

### 1.3 - SUBMITTALS

- A. Nixalite literature including PollyNet specifications and installation guidelines for the PollyNet, Bird Netting Hardware and the specified Surface Cleaning System.
- B. Sample of the PollyNet – not less than 6” square (15.2cm square) in the specified PollyNet grade (Premium or Lightweight).
- C. Contractor to complete estimate worksheet detailing the scope of the netting enclosure, and the mounting hardware type, location and spacing.

### 1.4 – STORAGE & HANDLING

- A. Provide storage to keep all bird netting system shipping boxes dry, clean and undamaged. Do not stack or place other packaging or objects on the bird netting system boxes.

- B. Keep the all PollyNet Bird Netting System Products in their 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 – POLLYNET BIRD EXCLUSION NETTING**

- A. **PollyNet Material:** Black, UV resistant polypropylene. UV stabilizer: carbon black - 2% by weight.
- B. **PollyNet Construction:** Both Premium and Lightweight grades are knotless, extruded and pre-stretched netting.
- C. **PollyNet Mesh sizes:**  
Premium (average): 1/2” (1.3cm) square. Works for all pest bird species.  
Lightweight (average): 3/4” x 3/4” (1.9cm x 1.9cm). Works for all pest birds species.
- D. **PollyNet Sizes:**  
**Premium PollyNet:**  
Width - 14’ (4.2m)  
Lengths - 50’ (15.2m), 100’ (30.4m), 250’ (76.2m) and 3,000’ (914.4m).  
Custom sizes available – call for details.  
**Lightweight PollyNet:**  
Width: 17’ (5.1m)  
Lengths - 50’ (15.2m), 100’ (30.4m), 250’ (76.2m) and 5,000’ (1524.0m)  
Custom sizes available – call for details.
- E. **PollyNet Physical Properties:**  
**Premium PollyNet:**  
Average strength – 10 lbs./strand (4.5kg).  
Average strand count – 2 per inch.  
Weight: 8.5 lbs. (3.8kg) per 1,000 square feet.  
**Lightweight PollyNet:**  
Average strength – 25 lbs./3 strand (11.3kg every 3 strands).  
Average strand count – 13 per 10” (25.4cm)  
Weight: 2.8 lbs. (1.2kg) per 1,000 square feet.
- F. **PollyNet Thermal Properties:**  
Melting point: 320+ degrees F.  
Flash point: 625 degrees F.

Remains flexible at very low temperatures.

Polypropylene is an inert compound and resistant to a wide range of chemicals.

G. **PollyNet Warranty:** 5 year limited warranty on **Premium grade PollyNet only.**

## 2.3 BIRD NETTING HARDWARE

A. Installer to contact manufacturer for up-to-date information and recommendations for netting hardware applications, item combinations, new items and new procedures. Use the hardware system recommended by the manufacturer.

B. Available Hardware Systems: **Poly Hardware** and **Tensioned Support Cable Hardware**. Choose the hardware system that best suits the netting installation and conditions.

C. **Poly Hardware:** All poly hardware is made from UV stabilized black polypropylene. Hardware combinations can be mixed to suit changing surface materials and conditions.

**Poly Clip:** Perimeter fastening. Secure to perimeter with hardware recommended by manufacturer. Maximum spacing: 12" (30.5cm) O.C.

**Twist Locks:** Seam fastening. Twist Locks join two overlapped pieces of netting together at a seam. Maximum spacing: 3" (7.6cm) O.C.

**Net Ties:** Multi-purpose fastener. Quickly fastens the netting fabric to all types of objects. Use to prevent netting sag or loose fitting nets by securing the netting to objects above or behind netting installation. Three sizes to choose from.

**Quick Tie Chain:** Overhead support straps. Each is 24" (61cm) long. Use to prevent net sag by fastening bird net to objects above or behind netting installation.

**Poly Cord:** Multi-purpose fastener. Reinforce seams, patch tears, close circular openings, use for overhead support, etc.

D. **Tensioned Support Cable Hardware:** Use support cables to prevent net sag when spanning large open areas. Maximum spacing between support cables: 30' (9.1m). Choose the Connection and Anchoring Hardware that best suits the installation surface and conditions. Contact manufacturer for hardware recommendations.

### Connection hardware:

**Net Cable:** Aircraft grade 302/304 stainless steel 7x7, 49 strand, 3/32" (2.2mm) diameter cable. 900 lb. (407 kg) breaking strength. In 250' (76.2m) and 500' (152.4m) spool lengths. Hardware determines max cable run lengths.

**Turnbuckles:** Stainless steel, hook & eye turnbuckles - three sizes.

Small: Max cable run: 25 feet (7.6m). Safe working load 360 lbs. (163kg).

Medium: Max cable run: 50 feet (15.2m). Safe working load 500 lbs. (226kg).

**Ferrules:** Zinc plated copper ferrules for 3/32" (2.2mm) cable. Acceptable connection for cable runs up to 25' (7.6m) max. Always use 2 ferrules per connection. Always use in conjunction with Cable Thimble.

**Wire Rope Clamps:** Galvanized or stainless steel for 3/32" (2.2mm) diameter cable. Recommended connection for all cable runs. Mandatory connection for cable runs over 25' (7.6m). Always use 2 clamps per connection. Always use in conjunction with Cable Thimble.

**Cable Thimble:** Stainless steel cable thimble for 3/32" (2.2mm) diameter cable. Cable Thimble prevents cable fraying and creasing when tensioning cable system.

#### **Cable Anchoring Hardware:**

**Eyebolts:** for steel, iron, and heavy gauge sheet metal. Extreme duty stainless steel eyebolt, 2" (5.1cm) long, 9/16" I.D. (14.2mm) with 1/4-20 stainless steel hex nut. Maximum spacing between eyebolts: 50' (15.2m).

**Screw Eyes:** for wood beams, heavy to medium gauge sheet metal and wood core surfaces. Extreme duty stainless steel screw eyes 2" (5.1cm) long, 17/32" I.D. (13.5mm). Pilot holes recommended for all surfaces. Maximum spacing between screw eyes: 50' (15.2m).

**Eyebolts and Machine Screw Anchors:** for concrete, stone, masonry block, brick and pre-cast surfaces. Eyebolt specs are same as above.

**Machine Screw Anchor:** Zinc plated anchor – 1/2" (12.7mm) diameter x 1" (25.4mm) deep with 1/4-20 threads inside. Setting tool included with anchors.

- E. **Additional Installation Methods:** Due to PollyNet versatility and ease of installation, there are many possible methods for fastening. Contact manufacturer for details regarding details and procedures.

## **2.4 – SURFACE CLEANING SYSTEM**

- A. **Steri-Fab:** surface disinfectant and bactericide to neutralize bird waste. Do not use with Microcide-SQ on the same surface.
- B. **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.
- C. **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).
- D. **All Marine Bird Dropping Remover:** a non-toxic, biodegradable bird dropping remover that is safe and effective for use in both marine and land applications. Instantly dissolves bird droppings both wet and dry, in or out of the marine environment.
- E. **Stain & Odor Remover:** a non-toxic, biodegradable stain and odor remover that uses naturally occurring active to remove the worst types of odors and stains. Safe and effective for both wet and dry environments.

# **PART 3 - EXECUTION**

## **3.1 - INSPECTION**

- A. Visually inspect the surfaces that will receive the netting hardware and all areas that will end up behind or inside the netting installation. Note damaged surfaces or incomplete construction that could compromise the bird netting installation.
- B. Note all areas, surfaces or objects that may require maintenance or periodic replacement after the bird netting is installed (i.e. lights, electrical equipment, etc.). Use the appropriate netting accessories to allow access behind the installed netting system.

- C. Note any objects or conditions that could damage the installed bird netting. Install the PollyNet in such a manner as to avoid these conditions.

### **3.2 - PREPARATION**

- A. **Field Measurements:** Verify dimensions of the areas to be enclosed. Make sure you have sufficient quantity of bird netting, netting hardware and surface cleaning products to properly install the PollyNet Bird Netting System.

### **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 bird netting hardware as recommended by manufacturer. General order of installation: install perimeter and support hardware; attach bird netting to installed hardware; install access or additional support hardware as specified.
- B. Install PollyNet as recommended by the manufacturer. If necessary cut the PollyNet to fit the area. If multiple pieces are needed, join the pieces together with the recommended seam fastening hardware.
- C. Install PollyNet to avoid contact with machinery, vehicles, extreme heat, tree branches, etc. Make necessary adjustments to keep netting a sufficient distance from these objects or conditions.
- D. Finished PollyNet installation to be taught, free of wrinkles, gaps and openings.

### **3.5 – ADJUSTMENTS / CLEANING**

- A. Remove debris and waste materials from project site.
- B. Inspect finished installation. Make any adjustments needed to conform to manufacturer’s PollyNet installation guidelines.

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