

PollyNet™ Bird Exclusion Netting System

Includes specifications for: PollyNet Bird Netting, Poly Hardware System and the Tensioned Perimeter & Support Cable System.

Nixalite's Premium **PollyNet Bird Exclusion Netting** is an extruded, knotless bird netting that uses a ½" (12.7 mm) square mesh to keep out birds of all sizes. This is a durable single ply extruded netting made to withstand both indoor and outdoor bird netting installations. Nixalite offers bird netting hardware and accessories to fasten the netting to all types of surfaces.

List Nixalite PollyNet 3-part specifications in the following locations;

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 Premium Bird Exclusion Netting** is constructed of black, UV resistant polypropylene. The extruded knotless mesh is effective in excluding birds of all sizes.
- B. **Bird Netting Hardware** fastens the bird netting to all types of surface shapes and materials. A variety of netting hardware, installation tools and accessories are available.
- C. **Surface Cleaning System** disinfectants and deodorizers to neutralize potentially hazardous bird and/or animal wastes and prepare the surface for installation.

1.2 - QUALITY ASSURANCE

- A. Obtain all of Nixalite of America Inc.'s planning guidelines, estimating worksheets and installation instructions for the PollyNet Premium Bird Exclusion Netting.
- B. Record accurate and complete dimensions for bird netting enclosure. Accurate dimensions drive bird netting and hardware quantities and help ensure accurate quotations and orders.
- C. Installer to obtain **Nixalite Certificate of Authenticity** issued by Nixalite of America Inc after ordering the PollyNet Premium Bird Exclusion Netting. This provides unique information required to receive project close out documentation.

1.3 - SUBMITTALS

- A. Manufacturer's literature including PollyNet Bird Exclusion Netting brochures and installation guidelines. All guides for installing the specified bird netting hardware system and the cleaning system.
- B. Sample of the PollyNet Bird Exclusion Netting. Sample to be not less than 4" square (10.16 cm. square).

1.4 – STORAGE & HANDLING

- A. Provide storage to keep all PollyNet Bird Exclusion Netting system boxes dry, clean and undamaged. Do not stack or place other packaging or objects on the bird netting shipping boxes.
- B. Keep the PollyNet Bird Exclusion Netting system in original packaging until needed for installation.

PART 2 - PRODUCTS

2.1 – ACCEPTABLE MANUFACTURER

- A. **Nixalite of America Inc**
1025 16th Avenue, East Moline, Illinois 61244; U.S.A.
P: 309.755.8771 E: planning@nixalite.com or sales@nixalite.com www.nixalite.com
- B. ABC Advanced Bird Control – A division of Nixalite of America Inc.
PO Box 727, East Moline, Illinois 61244, U.S.A.
P: 309.755.4708 E: info@abcbirdcontrol.com www.abcbirdcontrol.com

2.2 – POLLYNET PREMIUM BIRD EXCLUSION NETTING

- A. **Material:** Made from black, extruded polypropylene that is UV and rot resistant.
- B. **Color:** black
- C. **Construction:** knotless, extruded strands. All pieces are seamless and borderless.
- D. **Mesh size:** ½" (1.3 cm) square for all pest birds.
- E. **Net Size:**
Width: 14'(4.2 m).
Lengths: 50'(15.2 m), 100'(30.4 m), 200'(61 m) and 3,000'(914.4 m).
- F. **Physical Properties:**
Average strength – 219 lbs. per foot (97.5 kg).
Average strand count – 2 per inch.
Weight: 8.5 lbs. (3.8 kg) per 1,000 square feet.
- G. **Thermal Properties:**
Melting point (approximately): 320+ degrees F.
Flash point (approximately): 625 degrees F.
Remains flexible at very low temperatures.
Polypropylene is an inert compound and resistant to a wide range of chemicals.
- H. **Warranty :**5-year limited warranty.

2.3 BIRD NETTING HARDWARE

- A. Installer to contact manufacturer for up-to-date information for bird netting hardware.
- B. Available in **Poly Hardware**, the **Tensioned Support Cable Hardware** or a hybrid system that combines methods from both systems. Choose the hardware system that best suits the netting installation and conditions.
- C. **Poly Hardware:** Poly hardware is made from UV stabilized black polypropylene.
 - a) **Poly Clip:** Perimeter fastening. Secures to perimeter with hardware recommended by manufacturer. Poly Clips can be used with a perimeter cable. Max spacing between Poly Clips is 12" (30.5 cm).
 - b) **Twist Locks:** Seam fastening. Twist Locks are used to join two (2) overlapped pieces of the PollyNet Premium. Install every 6" (7.6 cm) along both sides of seam.
 - c) **Net Ties:** Multi-purpose fastener. Military spec UV resistant Net Ties quickly fasten the netting to all types of objects. Three sizes to choose from.
 - d) **Poly Cord:** Multi-purpose. Reinforce seams, patch tears, close circular openings, use for overhead support. Not for perimeter fastening.
- D. **Tensioned Perimeter and Support Cable System:** Choose the **Connection**, **Corner**, **Cable Guide** and **Finishing** hardware that best suits the installation surface.
- E. **Net Cable & Connection Hardware:**
 - a) **Net Cable:** Aircraft grade, all stainless steel, 7 x 7 (49 strand), 3/32" (2.2 mm) diameter cable with 900 lb. (407 kg) breaking strength. Net Cable comes in 250' (76.2 m) and 500' (152.4 m) spools.

- b) **Turnbuckles:** Stainless steel hook & eye turnbuckles. The size of the turnbuckle is determined by the maximum continuous cable length of any one cable run.
For one **Small Turnbuckle** the max continuous cable length is 25 ft. (7.6 m).
For one **Medium Turnbuckle** the max continuous cable length: 50 ft. (15.2 m).
For one **Large Turnbuckle** the max continuous cable length: 75 ft. (22.9 m).
- c) **Net Ferrules:** Zinc plated copper crush ferrules for 3/32" (2.2 mm) dia. cable. Use when the max continuous cable length is 25 ft. (7.6 m) **OR LESS**. Use at least 2 ferrules per cable loop connection. Use Nixalite's Cable Swaging Tool to install ferrules. Use a Thimble with Net Ferrules.
- d) **Wire Rope Clamps:** Galvanized or stainless-steel wire rope clamps for 3/32" (2.2 mm) diameter cable. Use for loop connections on cable runs of 25' (7.6 m) or more. Use 2 or re clamps per cable loop connection. Use a Thimble with wire rope clamps
- e) **Cable Thimble:** Stainless steel cable Thimble for 3/32" (2.2 mm) diameter cable. The Thimble prevents cable fraying and creasing when creating loop connections. Use one Thimble per loop connection

F. Corner Hardware (Anchoring):

- a) **Eyebolts:** HD stainless steel eyebolts used in steel and masonry surfaces. Two sizes: 1" (25.4 mm) threaded stem and 2" (51 mm) threaded stem for thicker surfaces. 9/16" ID (14.3 mm) eyelet for both sizes. Maximum distance between eyebolts: 50' (15.2 m).
For Steel: If steel is open, drill clearance hole for stem, install eyebolt and use 1/4 - 20 NC hex nut to secure. If back of steel is not accessible, drill then tap the hole for 1/4 - 20 NC thread. Apply thread locker on eyebolt threads. Install the eyebolt.
For Masonry: Use the HD stainless eyebolt with 1" threaded stem with the Masonry Machine Screw Anchors. Drill the recommended hole size for the anchors, insert and set the anchors and thread the eyebolt into the anchor).
- b) **Screw Eyes:** Use as corner hardware in wood and wood core surfaces. HD stainless steel screw eyes 2" (51 mm) long, 17/32" I.D. (13.5 mm). Pilot holes recommended. Maximum spacing between screw eyes: 50' (15.2 m).
- c) **Machine Screw Anchor:** Zinc plated anchor – 1/2" (12.7 mm) diameter x 1" (25.4 mm) deep with 1/4-20 threads inside. Setting tool included with anchors.

G: Cable Guide Hardware:

- a) **Small Screw Eyes:** Use to keep cable close to the installation surface. Use on wood, sheet metal and wood core surfaces. Stainless steel, 1-3/16" long x 7/32" I.D. (31 mm long x 5.3 mm I.D.). Max spacing: 24" (61 cm) O.C. Pilot holes recommended.
- b) **Small Eyebolts:** Use to keep cable close to the installation surface. For steel, thick sheet metal and masonry surfaces. Heavy duty, stainless steel, 1 3/8" long x 9/32" I.D. (35 mm long x 7.1 mm I.D.) with stainless hex nut. Max spacing: 24" (61 cm) O.C.
To fasten to Steel: If steel is open, drill clearance hole and install eyebolt and use 10 - 24 NC hex nut to secure. If back of steel is not accessible, drill then tap the hole for 10-24 NC thread and install the eyebolt.
To fasten to Masonry: Use the small stainless-steel eyebolts and the small Machine Screw Anchors. Drill the recommended hole size for the anchors, insert and set the anchors and thread the eyebolt into the anchor.
- c) **Sidewinders For Steel:** Self drilling and self-tapping cable guides for heavy steel up to 1/2" (12.7 mm) Maximum spacing: 24" (61 cm). Install installed with the Sammy Socket accessory.
- d) **Sidewinders For Concrete:** For use in solid block or slab concrete. Requires 1/4" (6.35 mm) diameter and 2" (50.8 mm) deep drilled holes. Install the Sidewinder Sammy Socket Driver.

- e) **E-Z Clip:** Keeps cable tight to the installation surface. Stainless steel bracket used on all types of installation surfaces. E-Z Clip 1/8" (3.7 mm) mounting holes for fasteners (not supplied).
- f) **Hammer-On Flange Clips:** Available in black oxide coated steel or stainless steel. Hammer-On Flange Clips routes the Net Cable parallel to the outer edges of beams or other structural steel flanges. Contact Nixalite for installation guidelines.
- g) **Stainless Steel Angle Bracket:** A stainless-steel angle bracket with two (2) holes – one for mounting the other for the cable. Fasten with the appropriate fastener (not supplied).
- h) **Stainless Steel J-Clamp:** A J-shaped strap of stainless steel with mounting and cable guide holes. Fasten with the appropriate fastener (not supplied). .

H: **Finishing Hardware:**

- a) Fasten the PollyNet to the perimeter cable with the Poly Clips. Install every 12" (30.5 cm) along the run of the cable.
- b) For quick access behind the netting, use the Twist Loks

2.4 – SURFACE SANITIZING AND DEODORIZING

- A. Nixalite of America Inc offers several different broad spectrum surface sanitizers and deodorizers to help protect your people from the hazards of pest bird waste. Contact Nixalite for recommendations on the proper sanitizing product for your application.
- B. **Safety Equipment:** Nixalite offers personal protection equipment (PPE) to protect personnel from the hazards related to pest bird and animal waste materials. Contact Nixalite for details.

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 the dimensions for each area specified for enclosure with the PollyNet Bird Exclusion Netting. Use manufacturers Planning Guides to verify that sufficient quantities of bird netting and net hardware will be installed at each location specified for bird netting.
- B. Make sure all installation surface finishing requirements have been accomplished before installing the PollyNet Bird Enclosure Netting. Bird netting is to be the last item installed on each specified surface. Do not apply any surface coating or treatment (paint, sealer, etc.) over or on the installed PollyNet Bird Exclusion Netting or the mounting hardware.

3.3 – SURFACE CLEANING

- A. All surfaces to be clean, dry and free of obstructions before the PollyNet Premium Bird Exclusion Netting is 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 cleaning products to help prevent disease transmittal when working around surfaces contaminated with bird droppings

3.4 - INSTALLATION

- A. Install PollyNet Premium Bird Exclusion Netting as recommended by the manufacturer. If necessary, cut the netting to fit the area. If multiple pieces are needed, join the pieces together with the recommended seam fastening hardware.
- B. Install PollyNet Premium Bird Exclusion Netting 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.
- C. Finished installation to be taught, free of wrinkles, gaps and openings.

3.5 – ADJUSTMENTS / CLEANING

- A. Remove installation debris and waste from project site. Inspect finished installation. Make any adjustments needed to conform to installation guidelines.
- B. PollyNet Premium Bird Exclusion Netting is a physical and passive barrier. It relies on optimal placement and proper installation. Exclusion netting must block off or seal up all routes and paths that pest birds follow to their preferred roosts. Periodic inspections are recommended to make sure the bird netting stays in good condition.
- C. Note any holes, gaps or openings in the bird net installation that birds can use to bypass or get around the netting barrier. Correct these conditions immediately.

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