



ARCHITECTURAL SPECIFICATIONS

POLYETHYLENE NETTING SPECIFICATION

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SECTION I – GENERAL INFORMATION

1.1 Summary

Complete Bird Exclusion

No Fly Zone, Inc. Polyethylene Bird Exclusion Netting offers high technology bird exclusion for pigeons, starlings, crows, gulls and other pest birds.

Strength and Versatility

No Fly Zone, Inc. Polyethylene Bird Exclusion Netting is made from high density, ultra-violet stabilized polyethylene twine, a material that will last five years or more if installed correctly. Because No Fly Zone, Inc. Polyethylene Netting is knotted from a strong cabled twine, it is more than five times stronger than inferior plastic molded nets; it will not rip apart under normal stress, or sag over time.

Multiple Mesh Sizes

No Fly Zone, Inc. Polyethylene net is available in different mesh sizes for different birds. For example, 3/4" mesh for sparrows and

swallows, 1 1/8" mesh for starlings, 2" mesh for pigeons and 4" mesh for gulls and crows. Obviously, smaller birds can penetrate larger mesh nets, so care must be taken to identify the pest birds correctly.

Size Availability

No Fly Zone, Inc. Polyethylene Net is available in a whole host of pre-cut sizes, from 25' x 25' up to 50' x 100'. And, for no extra per-foot cost, it is available in custom sizes up to 500' x 500'. That means large net jobs can be installed without seams, which take extra time and weaken the overall net job.

Netting Visibility

No Fly Zone, Inc. Polyethylene twine, while very strong, is actually very thin. And because it is available in black, white, stone (beige) and the net can always be chosen in a color that will blend in with the background. The final result is always a secure and permanent solution that is very hard to see.

Accessibility Behind Netting

Zippers can be installed in applications requiring access to any area needing maintenance such as lighting fixtures, valves, etc.

Installation Hardware

No Fly Zone, Inc. Bird Exclusion, Control and Deterrent offers hardware available to complete a professional net installation into almost any material (stone, concrete, wood or steel). A cable system must be securely



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anchored to the structure. It provides a solid foundation for net attachment. If correctly installed, cable and net will remain functionally secure for an extended period of time. No Fly Zone, Inc. offers specialty tools that will make a professional net installation job easier and more efficient.

1.2 Acceptable Manufacturer

No Fly Zone, Inc. 1 Steven Ave.
Tinton Falls, New Jersey 07724

1.3 Netting Selection

Netting selection should be made based upon the type of bird that is to be excluded from a particular area.

No Fly Zone, Inc. Polyethylene Bird Exclusion Netting

Material: Ultra-violet stabilized polyethylene plastic.

Construction: 3 x 2 ply. Three groups of two strands are wrapped into a tight, rope-like group of six.

Breaking Strength: Std. 44lbs – HD 50lbs per strand.

Size: Mesh available in ¾”, 1-1/8”, 2”, 4” and 6”

Size: 25’ x 25’, 25’ x 50’, 25’ x 75’, 50’ x 50’, 50’ x 75’, and 50’ x 100’. Unlimited custom sizes are available, up to 500’ x 500’.

Colors: Black, white and stone (beige)

Installation – Hardware:

Mounting Brackets: For block, brick, stone, concrete, wood or steel Cable: 1/16”

diameter. Turnbuckles: 2 sizes available (small and medium). Miscellaneous fasteners: brackets, clips and screws. All hardware is available in stainless steel (recommended) or galvanized.

AI-Assembly, Installation:

No Fly Zone, Inc. Polyethylene Bird Exclusion Netting is available out of the box in many pre-cut sizes, colors and mesh configurations (see above). The comprehensive hardware system is available as required for specific installations.

MF-Material Finishes:

No Fly Zone, Inc. Polyethylene Bird Exclusion Netting is made from ultra-violet stabilized polyethylene, while the hardware is made from both galvanized and stainless steel.

No Fly Zone, Inc. Polyethylene Thermal Properties:

Softening Point: In the region of 250 degrees Fahrenheit.

Melting Point: In excess of 270 degrees. Burns with difficulty, flame will not spread. May be heated for short periods up to 600 degrees.

Low Temperature: Retains it’s flexibility at a very low temperatures and does not become rigid under freezing conditions.

No Fly Zone, Inc. Polyethylene Netting Chemical Properties:

Polyethylene, being a paraffin hydrocarbon, is inherently chemically inert and is highly resistant to a wide range of chemicals



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at ordinary temperatures. It does not rot and does not absorb water. Polyethylene fibers have a high resistance to acids and alkalids of all concentrations. They are insoluble in most common organic solvents at room temperature.

No Fly Zone, Inc. Polyethylene Netting Electrical Properties:

Polyethylene is an outstanding electrical insulator, especially to high frequency currents.

Resistance to Insects and Microorganisms

Polyethylene fibers are non-organic and are not digested by insects. Polyethylene is also resistant to mildew, bacteria and similar organisms. Urethane bonding enhances these characteristics.

1.4 Netting Applications

- A. Install No Fly Zone, Inc. Polyethylene Bird Exclusion Netting to prevent bird access to any areas where birds roost, nest or land and to prevent damage caused by droppings or nesting materials.

1.5 Quality Assurance

- A. All technical information should be obtained from the manufacturer.
- B. The utilization of qualified installers is recommended.
- C. Installers shall visit the site to obtain all necessary site information, as well as surrounding information.

1.6 Submittals

- A. Submit manufacturer's samples, catalogs, brochures, sketches and other necessary materials.
- D. In addition, provide warranty information, product samples, including fastening methods and a certification indicating that the installation company is a certified installation company.

1.7 Product Handling

- A. Protect No Fly Zone, Inc. Polyethylene Bird Exclusion Netting materials from damage before, during and after installation.
- B. Damaged netting components should be replaced.

1.8 Guarantee

- A. The Netting shall carry a minimum of a 5-year guarantee against U.V. breakdown and stainless steel breakdown.
- B. The installation shall carry a minimum of a 1-year guarantee against material defects and functionality of the installation system.

SECTION II – MOUNTING METHODS

2.1 Method Selection

Disclaimer: Before proceeding, No Fly Zone, Inc. strongly recommends investigating warranty liability before making penetration to any structure or surface. (examples: roofs or walls)



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- A. Steel I-beams: Use No Fly Zone, Inc. beam clips, No Fly Zone, Inc. J-brackets with powder actuated pin or No Fly Zone, Inc. J-bracket with screw or other mechanical method of attachment. For safety reasons, powder actuated pins require the use of Hilti brand tools.
- B. Solid steel: Use No Fly Zone, Inc. J-brackets with powder actuated pin or No Fly Zone, Inc. J-bracket with screw or other mechanical method of attachment. For safety reasons, powder actuated pins require the use of Hilti brand tools.
- C. Sheet metal: Use No Fly Zone, Inc. J-brackets with the appropriate screw or similar mechanical fastener.
- D. Stucco: Corner and middle anchorage points should be made with a toggle type anchor to ensure proper load distribution. Median attachments should be securely anchored to provide adequate support. J-brackets or S-hooks with epoxy may be one method used.
- E. Brick, Stone or Concrete: Corners should use an expansion type anchor that has a loop. Expansion type anchors with a loop or net spikes should be used for intermediate points. If the substrate permits, an S-hook or J-bracket can be used with a powder actuated pin.
- F. Wood: Corner attachments should have an eye loop securely screwed into the wood. Median anchors can be eye screws, S-hooks, or J-brackets. Be sure to use proper wood screws that are of adequate depth.
- G. Median attachment anchors should be placed every 12" for 3/4" mesh net and 16" for 2" mesh net. This ensures one anchor failing does not provide an access point for birds.
- H. After installing corner anchor and median anchors attach cable to a corner anchor with a cable crimper and ferrules. Proceed to run the cable the length of one side through median anchor points. Cable runs should be in a straight line only and not exceed 100'. **Adequate cable tension must be maintained.** On the opposite corner, place a turnbuckle (fully extended), hook side on the attachment anchor. With cable pulled hand taught, attach cable to the eye side of the turnbuckle, using a crimping tool and ferrule. Using the turnbuckle, apply tension to the cable.
- I. Cross cables should be run at approximately 10' intervals across the field. They provide adequate support and give the installed net a smooth taught appearance.
- J. No Fly Zone, Inc. Polyethylene Bird Exclusion Netting should be attached to the cable system at each square



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along the perimeter, and at all cross support cables.

- K. No Fly Zone, Inc. strongly encourages the use of specialized tools for cable crimping and installing Hog Rings.

SECTION III – NETTING INSTALLATION

3.1 Site Survey

- A. Installers must visit the site prior to installation to ensure measurements and the proper product selection.
- B. Installer must notify architect or engineer of any detrimental working conditions prior to installation.
- C. Installer should only proceed with installation after the detrimental working conditions are corrected.

3.2 Surface Preparation

- A. Obstructions must be removed. Ledges and mounting surface must be dry and free of loose paint, rust, bird droppings and any foreign debris. Bird droppings shall be cleaned, removed and disposed of in a safe manner in accordance with local regulations.
- B. Remove or repair articles that may damage the netting after installation (tree limbs, loose items on building, etc.)

3.3 Netting System Installation

- A. No Fly Zone, Inc. Polyethylene Bird Exclusion Netting must be installed per

manufacturers specifications. Net installation must follow the contour of the area excluded so that birds cannot enter the protected area. This provides a neat, professional appearance.

- B. No Fly Zone, Inc. Polyethylene Bird Exclusion Netting must be stretched “guitar string” tight to provide a straight-line installation. A tight net will appear nearly invisible depending on background. Loose installations will not endure over time, will give an unsightly appearance, and may entangle birds.
- C. By using the correct net mesh size, targeted birds will be excluded while providing an economical installation. Improper installation or failure to follow proper workmanship guidelines voids all warranties; both in material and labor.

3.4 Netting System Inspection

- A. Visually inspect Netting System for rips, malfunctioning hardware and for any additional problems and problem related issues due to poor
- B. site preparation.
- C. Repair any defects to the Netting System immediately.
- D. Visually inspect that all attachment points are firmly anchored to substrate material and that net is firmly attached to cable system.
- E. Visually inspect all sub-components of net system for failures (zippers, net clips, turnbuckles, cable and crimps) for



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damage or problems related to poor installation.

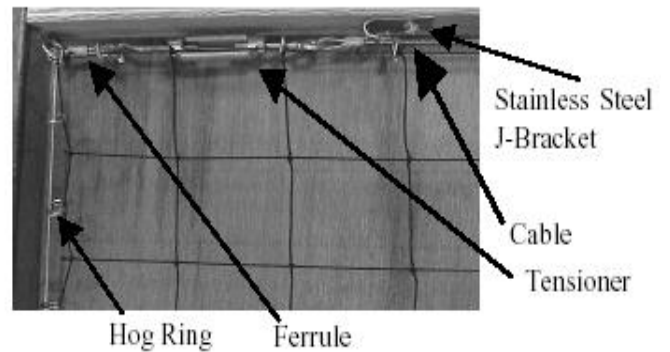
- F. Repair defects immediately or failure of the system may occur

OM-Operation Maintenance

If the Netting System is installed per No Fly Zone, Inc. specifications, the product should be virtually maintenance free. However, the Netting System should be monitored on a regular basis.

TS-Technical Support

No Fly Zone, Inc.'s certified representatives are available to assist in all aspects of evaluation and product recommendations. Please contact No Fly Zone, Inc. at 866-663-5999 or fax your drawings and/or other pertinent information to 732-219-0677.



***Netting Diagram**



***Zipper Installed**

END OF SPECIFICATIONS