



## **HDPE Bird Deterrent Net**

Bird Solutions International  
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Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems

### **Supplier-Installer**

Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems is manufactured from ultra-violet stabilized strands of polyethylene plastic. Installation hardware is available in both galvanized and stainless steel options.

### **PR-PRODUCT PRESENTATION**

#### ***Total Bird Exclusion***

Bird Solutions International Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems offers the latest technology in total bird exclusion of sparrows, starlings, swallows, pigeons, gulls, crows and any other pest bird. Bird Solutions International HDPE Bird Deterrent Net is fast becoming the most widely used netting for bird exclusion across America.

#### ***Strong, Versatile Netting***

The net is made from high density, ultra-violet stabilized polyethylene twine, a material that will last ten years or more if installed correctly. Because Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems 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.

#### ***Invisible***

HDPE Bird Deterrent Net's Systems twine, while very strong, is actually very thin. And because it is available in black and stone (beige) 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.

#### ***Multiple Mesh Sizes***

Because pest birds vary in size, Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems 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.



### ***No Size Limit***

Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems is readily 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.

### ***Access behind Net***

Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems zippers or net clips can be installed in the netting in any application to allow for access to enclosed areas, maintenance, changing of light-bulbs, etc.

### ***Many Uses***

Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems has literally thousands of applications including: courtyards, warehouse ceilings, bridge undersides, air conditioning enclosures, signs and billboards, church steeples, ledges, balconies, alleys, loading docks, hangars, patios, eaves, roofs, ponds, vineyards and faces of entire buildings.

### ***Installation Hardware***

Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems comprehensive hardware has options for any mounting surface including stone, concrete, steel, wood, stucco and brick. A strong cable system is actually bolted or fastened securely to the building before the netting is installed. This insures a strong, solid, non-moving system that will not weaken over time. And because all fixtures are mechanical (no adhesives, Velcro etc.), you can be assured of an installation that will stand the test of time. Specialized tools for the netting and hardware are available from Bird Control Warehouse.

### **Bird Solutions International HDPE Bird Deterrent Net**

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. Meets ISO 1806 Protocol Mesh Test

Breaking Strength: 50 pounds per strand

Size: Mesh available in 3/4", 1-1/8", 2", 4" and 6"

Sizes: 25' x 25', 25' x 50', 25' x 75', 50' x 50', 50' x 75', and 50' x 100'. Unlimited custom sizes available up to 500' x 500'.

Colors: Black,

### **Installation Hardware**

Corner Bolts: For wood, stone, steel etc. available in galvanized and stainless steel

Cable: 5/64" & 1/16" diameter perimeter cable available in galvanized and stainless steel

Turnbuckles: Small, medium and large available in galvanized and stainless steel

Miscellaneous fasteners, brackets and clips. All additional mounting systems are available in galvanized and stainless steel

### **UA-USES, APPLICATIONS**

Bird Solutions International Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems can be used to block access to any bird in or on any architectural structure. The net can be installed horizontally, vertically or literally any way necessary to accomplish the task of closing off access to unwanted pest birds like sparrows, starlings, pigeons, gulls, crows etc. Bird Solutions International HDPE Bird Deterrent Net anchoring system can provide for a permanent solution that is very hard to see.



### **AI-ASSEMBLY, INSTALLATION**

The 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 the specific installation.

### **MF-MATERIALS, FINISHES**

Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems is made from ultra-violet stabilized polyethylene, while the hardware is made from both galvanized and stainless steel.

### **TS-TECHNICAL SUPPORT**

Bird Solutions International knowledgeable field representatives are available to assist in any aspect of evaluation, product recommendation and even local certified installation. Call 800-210-9514, or fax drawings and other pertinent information to 760-758-3969. Free literature, catalogs, job evaluation worksheets and installation information is available.

Due to the complexity of the average Bird Solutions International HDPE Bird Deterrent Net installation Systems, it is highly recommended that the manufacturer is contacted directly, and that knowledgeable, certified installers be used to insure the best, long-lasting results.

#### ***HDPE Bird Deterrent Net's 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 its flexibility at very low temperatures and does not become rigid under freezing conditions.

#### ***HDPE Bird Deterrent Net's Chemical Properties***

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

#### ***HDPE Bird Deterrent Net's Electrical Properties***

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

#### ***Effects of Insects and Micro-organisms***

The fibers are not digested by insects and are completely resistant to bacteria, mildew and other micro-organisms. This makes Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems virtually rot-proof.



## **SPECIFICATION GUIDELINES**

### **General**

#### **1.1 Description**

1.1.1 Install Bird Solutions International Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems to block access to pest birds from any open area, opening or complicated bird roost, to prevent damage from droppings and nesting materials.

#### **1.2 Quality Assurance**

- 1.2.1 Obtain technical literature from manufacturer or distributor, telephone consultation and plan/photograph evaluation.
- 1.2.2 Utilize certified installation companies in your area who are fully skilled with Bird Control Warehouse, and carry the proper insurance coverage.
- 1.2.3 Utilize labor recommended by Bird Solutions International for especially challenging applications.

#### **1.3 Submittals**

- 1.3.1 Submit manufacturer's samples, catalog cuts, shop sketches and other descriptive material.

#### **1.4 Product Handling**

- 1.4.1 Protect Bird Solutions International Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems from damage before, during and after installation.
  - 1.4.2 If damage occurs to Bird Solutions International Bird Solutions International HDPE Bird Deterrent Net make all replacements immediately.
- Products

#### **2.1 Acceptable Manufacturer**

- 2.1.1 Bird Control Warehouse, 825 College Blvd. Suite 102, PMB 639, Oceanside, CA 92057-6258. Phone 760-758-9747, Fax 760-758-1795,

#### **2.2 Model Designation**

- 2.2.1 Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems 3/4" Mesh, available in black, and stone with 12/6 and 12/4 strand configurations.
- 2.2.2 Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems 3/4" Mesh, available in black, and stone
- 2.2.3 Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems 2" Mesh, available in black,

### **Material**

Material: Ultra-violet stabilized polyethylene plastic

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Breaking Strength: 50 pounds per strand

Size: Mesh available in 3/4", 1-1/8", 2", 4" and 6"

Sizes: 25' x 25', 25' x 50', 25' x 75', 50' x 50', 50' x 75', 50' x 100'

Unlimited custom sizes available up to 500' x 500'.

Colors: Black



### **2.3 Mounting Systems**

2.3.1 Solid steel: for corner attachments use Bird Solutions International corner bolts with lock nuts or Bird Solutions International multipurpose fasteners with powder actuated fire-in pins. Use Bird Solutions International multipurpose fasteners with powder actuated fire-in pins, for intermediate attachments.

2.3.2 Steel I-beams: for corner attachments use Bird Solutions International corner bolts with lock nuts and for intermediate attachments, use the appropriate size Bird Solutions International girder/ flange clip.

2.3.3 Sheet metal: use Bird Solutions International multipurpose fasteners with self-tapping screws for corner/intermediate attachments.

2.3.4 Brick, concrete and stone: for corner attachments use Bird Solutions International expanding corner net bolts and for intermediate attachments use one of the following Bird Solutions International attachments, open or closed net loop, net spike, or split pin and anchor rivet.

2.3.5 Wood: for corner attachments use Bird Solutions International screw eyes and for intermediate fasteners use one of the following Bird Solutions International spade screw, screw eye or split pin and anchor rivet.

2.3.6 Stucco: for corner attachments use either Bird Solutions International corner net bolts or screw eyes and for intermediate fasteners use Bird Solutions International Kwik togs with eye loops. For smaller installations it is possible to use Bird Solutions International thin wire net clips for intermediate attachments.

2.3.7 Upon completion of installing corner bolts and intermediate attachments, using a Bird Solutions International crimping tool and ferrules attach cable to a corner bolt. Then guide the cable through the intermediate attachments (straight runs of cable are the only acceptable way to install cable). At the opposite end of the cable run, a turnbuckle (opened all the way) will be installed using ferrules and a Bird Solutions International crimping tool to tension the cable.

2.3.8 Special systems available where holes are not desired.

2.3.9 Special tools such as Bird Solutions International Crimping tool and Hog Ring tool are necessary to insure the proper installation of Bird Solutions International HDPE Bird Deterrent Net Systems.

2.3.10 Correct intermediate attachment placement 2" or 1-1/8" Bird Solutions International HDPE Bird Deterrent Net every 4 feet, 3/4" Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems every 3 feet.

### **Execution**

#### **3.1 Examination**

3.1.1 Examine installation area. Notify architect of detrimental work conditions.

3.1.2 Do not proceed until conditions are corrected.

#### **3.2 Surface Preparation**

3.2.1 Bird droppings shall be removed in a safe manner; large quantities shall be removed and disposed of by reputable waste removal companies. Work areas shall be cleaned, and repair work shall be done in areas which will be excluded by HDPE Bird Deterrent Net Systems.

3.2.2 Remove or repair articles that may damage the Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems after installation, such as tree limbs, brush, and loose parts of the building.



### **3.3 Installation**

3.3.1 Install Bird Solutions International HDPE Bird Deterrent Net and Installation Hardware Systems as recommended by the manufacturer. Bird Solutions International HDPE Bird Deterrent Net shall fit the area to be protected perfectly so pest birds cannot enter the protected area, and so the netting blends perfectly with the architecture.

3.3.2 Bird Solutions International HDPE Bird Deterrent Net correct mesh sized shall be specified to insure exclusion of the correct pest bird

3.3.3 Bird Solutions International HDPE Bird Deterrent Net shall be installed "tight-as-a-drum" to insure a secure, long-lasting installation that is very hard to see. Loose installations will not stand the test of time, will look unsightly and may entrap birds.

### **3.4 Inspection**

3.4.1 Visually inspect Bird Solutions International HDPE Bird Deterrent Net for poor adherence to mounting surfaces, or other problems related to poor installation or surface preparation.

3.4.2 Repair as necessary immediately.

### **OM-OPERATION, MAINTENANCE**

If the Bird Solutions International HDPE Bird Deterrent Net is installed per our specifications, the product should be virtually maintenance free. Wind or rain will not damage the net as long as it is secured per our specifications. Five year manufacturer's warranty against ultra-violet breakdown and defective workmanship for black Bird Solutions International HDPE Bird Deterrent Net on exterior installation Ten year for interior installation. Three year warranty for Stone Bird Solutions International HDPE Bird Deterrent Net.