Three-Part Specifications - Copyright 2025 - Nixalite® of America Inc

Nixalite® Bird-Zap Shock Track

Includes: Bird-Zap Shock Track system components

Nixalite of America Inc offers the Bird-Zap Shock Track system; a flexible, electrified track bird deterrent that can be installed on all types of surfaces. When a bird lands or walks on the shock track, they complete a circuit between the two stainless steel conductors and receive a harmless but memorable shock of electricity, giving the bird incentive to look elsewhere for nesting, roosting or landing locations.

List Nixalite Bird-Zap Shock Track 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. Bird-Zap Track: A flexible, UV resistant PVC strip with two (2) stainless steel conductors sewn into the track. Bird-Zap Track is 1/4" thick, 1-1/2" wide, comes in 50-foot rolls and is available in black, gray and tan**.**

B. Bird-Zap Chargers: Creates high voltage, low amperage and low impedance DC electric power for the Bird Zap Shock Track system. Choose the charger that best suit the installation conditions.

C. Bird-Zap Jumper Wire: Heavy duty, copper core wire with heavy insulation designed for outdoor application of the Bird-Zap Shock Track system. For charger-to-track and track-to-track electrical connections. Comes in 50-foot spools and is available in black, gray and tan.

D. Quick Connectors: Available in straight and corner connector designs, these 2-piece, weather resistant connectors allow for quick surface mounting and track-to-track and track-to-charger electrical connections.

E. Crimp Style Connectors: Weather resistant crush-style connectors that can be used to make the track-to-track and track-to-charger electrical connections.

F. Surface Cleaning System: disinfectants and deodorizers to neutralize potentially hazardous bird waste and prepare the surface for installation.

1.2 - QUALITY ASSURANCE

A. Obtain, review and understand all available Bird-Zap Shock Track product brochures and installation guidelines. Installer must be completely familiar with the proper installation procedures for the Bird-Zap Shock Track system.

B. Installer to have a working knowledge of electrical connections, be able to perform simple mechanical procedures and be able to improvise and/or adapt the Bird-Zap Shock Track system (if needed) to meet the conditions of the installation.

C. All parts used for this bird control system must be Bird-Zap Shock Track components. <u>No substitutions are allowed</u>.

D. All Bird-Zap Shock Track installations are to be inspected and approved by a licensed electrician.

1.3 - SUBMITTALS

A. Bird-Zap Shock Track literature including: Bird-Zap Shock Track product brochure and Installation Guidelines.

B. The installer must provide an outline of Bird-Zap Shock Track installation procedures. Outline to be tailored to suit the parameters of each location. Outline subject to approval by licensed electrician (if necessary).

C. Installer to provide list of Bird-Zap Shock Track 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 Bird-Zap Shock Track items.

1.4 - STORAGE & HANDLING

A. Provide storage to keep Nixalite Bird-Zap Shock Track shipping boxes dry, clean and undamaged. Do not stack or place other packaging on the Nixalite shipping boxes.

B. Keep Nixalite Bird-Zap Shock Track components 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 – NIXALITE BIRD-ZAP SHOCK TRACK

A. Bird-Zap Shock Track:
UV stabilized and flexible PVC track with 2 braided stainless steel conducting strips sewn into the track with a UV stabilized bonded polyester thread.
Width: Bird-Zap Shock Track is 1-1/2” (3.7 cm) wide.
Thickness: ¼” (0.6cm) thick.
Length: 50 foot long (15.24 m) rolls.
Available Colors: black, gray and tan.

B. Track Chargers:
Matched to the Bird Zap Shock Track System, no substitutions are allowed. Chargers produce high voltage, low amperage, low impedance and intermittent DC power. Use **only the chargers offered** for the Bird-Zap Shock Track system.

C. Plug-In 120 Volt AC powered Track Chargers:
If positioned outside or exposed to the weather, these chargers must be installed inside a weatherproof NEMA 3R rated utility box (purchased separately). Plug all AC powered chargers into a weatherproof outlet installed by a licensed electrician. All Plug-In chargers are UL approved for use in USA.

a. **#ST PW100:** powers up to 500 feet of Bird-Zap Shock Track
Output: 0.05 joule, low impedance DC power

b. **#ST PW300:** powers up to 1,500 feet of Bird-Zap Shock Track
Output: 0.30 joule, low impedance DC power

D. Solar Powered Track Chargers:
Position solar track chargers so they receive as much direct sunlight as possible every day.

a. **#ST PW50S:** powers up to 500 feet of Bird-Zap Shock Track
Output: 0.06 joule, low impedance DC power

b. **#ST PW100S:** powers up to 1,000 feet of Bird-Zap Shock Track
Output: 0.15 joule, low impedance DC power

c. **#ST PW200:** powers up to 1,500 feet of Bird-Zap Shock Track
Output: 0.25 joule, low impedance DC power

E. Battery Powered Track Chargers: for remote locations without access to grid power

a. **#ST PW250B:** powers up to 500 feet of Bird-Zap Shock Track
Output: 0.25 joule, low impedance DC power
Requires: 12-volt DC battery (not included)

b. **#ST PW350B:** powers up to 1,500 feet of Bird-Zap Shock Track
Output: 0.35 joule, low impedance DC power
Source: 12-volt DC battery (not included)

F. The amount of track (in feet) that each charger can reliably power is based on a variety of conditions including ambient temperature, humidity, quality of solar exposure, battery condition and the quality of the wire and track connections. **These numbers should be considered guidelines**. If you are close to the coverage limit of a charger, either add another charger of the same size or use a larger capacity charger to power the track.

G. Shock Track Jumper Wire:
50-foot spools of 14-gauge, copper wires with heavy insulation used to connect the chargers to the PVC track and to join separate runs of track together. Easy to cut, strip and crimp, available in tan, black and gray color (to match the PVC track).
Wire Specs: 14 gage, copper core wire with heavy insulating jacket
Thickness: ¼" (0.6 cm) thick.
Length: 50-foot long (15.24 m) rolls.
Available Colors: Black, Gray and Tan.

H. Quick Connectors:
For Bird-Zap Shock Track applications. Available in Straight and Corner designs.

a. **CORNER Quick Connector:**
This 2-piece "L" shaped connector joins two ends of the Bird-Zap Track together at any outside or inside 90° corner. The bottom half of the connector has 3 mounting holes that will accept 1/8" diameter nails or screws. The connectors can also be glued to the surface. Snap halves together over trimmed track.

b. **STRAIGHT Snap-Tight Quick Connector**:
This 2-piece connector quickly joins two ends of the Bird-Zap Track together in a row – passing power from one track to the next. The bottom half has 2 mounting holes that will accept 1/8" diameter nails or screws. The top half provides 2 electrical connection points that can be used to pass power to adjacent runs of track or connect the track to the charger.

I. Crimp Style Connectors:
Nixalite offers weather resistant crush-style connectors to make the track-to-track and track-to-charger electrical connections.

J. Tools & Accessories:
Nixalite offers the tools and accessories needed for an effective and safe installation.

2.3 – 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 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 dimensions of each installation surface. Use Bird-Zap Shock Track Brochures and Installation Guidelines to make sure you have sufficient quantity of Bird-Zap components to properly protect the specified surfaces.

B. Make sure all installation surface finishing requirements have been accomplished before installing Bird-Zap Shock Track. Bird-Zap Shock Track should be the last item installed on specified surfaces. DO NOT apply any surface coating or treatment (paint, sealer, etc.) over the installed Bird-Zap Shock Track.

C. If installing a Plug-In Track Charger, make sure the electrical requirements and steps to protect the charger from the weather are already in place. Do not proceed until all measures are complete.

D. 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 Bird-Zap Shock Track installation.

3.3 – SURFACE CLEANING

A. All surfaces to be clean, dry and free of obstructions before Bird-Zap Shock Track 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. 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 Bird-Zap Shock Track on the surfaces specified or shown on the plans.

B. Position the Bird-Zap Shock Track charger(s) as close to the installation as possible. Position solar chargers so they will get the maximum amount of direct sunlight every day. Plug-In chargers need to be either installed in a location protected from the weather or installed inside a NEMA 3-R rated utility box (not included) for protection. If the 120 Volt AC outlets are installed exposed to the weather, it must be a weatherproof outlet installed by a certified electrician.

C. Follow the track spacing and quantity recommendations provided on the Bird-Zap Shock Track brochure.

D. Install the Shock Track in straight rows or make sure that the track follows the contour or shape of the surface. Make sure that there are no excessive gaps or wrinkles in the Shock Track. Dry fit the track at least once before installing on the surface.

E. Fasten the Shock Track to the surface using adhesive or the appropriate Quick Connectors. Follow the Installation Guidelines provided.

F. Connect the charger to the closest section of track with the jumper wire and crimp connectors or quick connectors. Connect each section of track together in a series circuit using the same crimps or quick connectors.

G. If the Bird-Zap Shock Track installation is in a place where the people might come into direct contact with the installation, install the specified warning signs.

3.5 – ADJUSTMENTS / CLEANING

A. Bird-Zap Shock Track is an active electrical bird deterrent system and will require regularly scheduled inspections and maintenance.

B. Do not operate the Bird-Zap Shock Track when the track is partially or fully covered by water, ice or snow.

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