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The site survey and design of the system is critical and essential to ensure that AVISHOCK™ is effective and safe.

INSTALLATION GUIDELINES

- > The AVISHOCK Energiser is for use with AVISHOCK™ Electric Bird Deterrent System only
- > Only AVISHOCK™ system components (Flex-Track, Lead Wire, Energiser, Connectors and Tools) should be used when installing the system
- > No more than one Energiser must be connected to a run of Flex-Track
- > AVISHOCK™ 15 Step Installation Guide should be followed
- > Installations must be in accordance with the relevant Safety Legislation and Guidelines.

WHERE AVISHOCK™ SHOULD NOT BE INSTALLED

- > AVISHOCK™ must not be installed anywhere where it will affect anybody's safety or where it is likely to be touched by the public
- > AVISHOCK™ must not be installed on window sills that are below the 800mm required by current building regulations and balcony handrails that are below 1100mm. The shock itself is safe for people; the hazard is falling from a height if startled by a shock
- > The AVISHOCK™ Flex-Track must not be connected to earth
- > Do not install AVISHOCK™ within the following orthogonal projections on ground surface from outermost conductors of a power line:
 - 3m for power lines not exceeding 1,000V
 - 15m for power lines exceeding 1,000V
- > Lead wires must not cross above overhead power or communication lines
- > Lead wires that cross under overhead power lines need to be at right angles to them
- > Lead wires should not be installed in the same conduit as main supply wiring, communication cables or data cables
- > AVISHOCK™ must not be installed where explosive gases are present
- > Interference may occur if the Energiser is installed within a metre from any communication equipment such as telephone lines, data cables or radio aerials.

PRECAUTIONS TO BE TAKEN WHEN INSTALLING AND WORKING WITH AVISHOCK™

Shock Hazard

AVISHOCK™ is high voltage (up to 10,000 Volts DC) but very low current (max 0.2 milliamps) and in the form of a pulse, every 1.3 seconds.

- > The shock felt if the system is touched when live is similar to that of an electric fence. The shock itself does not harm humans however the shock can startle. Therefore the principal hazard is falling when on access equipment. Ladders must not be used as a work platform.
- > Installation and maintenance of AVISHOCK™ must be carried out by installers who are trained and competent to do so. Although it is not a requirement to be a qualified electrician to install AVISHOCK™, appropriate AVISHOCK™ training is required.

Avoiding shock hazards:

- > Isolate (unplug) the Energiser whilst AVISHOCK™ is being worked on
- > Follow the AVISHOCK™ 15 step installation instructions
- > Only diagnostic testing should be carried when AVISHOCK™ is live.

WARNING SIGNS

- > Warning Signs must be fitted to every point where persons may gain access to the Flex-Track and connectors
- > Warning Plates must be positioned vertically, 5m apart on the face of the building where AVISHOCK™ is installed
- > If installing the Flex-Track onto a Window Ledge, the double-sided Window Warning Stickers must be applied to the inside of the window so that they are visible from the inside and outside.

CUSTOMER RESPONSIBILITIES REGARDING HEALTH AND SAFETY

Under the Health and Safety at Work Act, 1974, installers have a responsibility to advise their customers on how to ensure the safe ongoing use of AVISHOCK™ and how to isolate (unplug) the system when requested to do so by personnel working on the structure.

It is the installer's responsibility to advise their customer to:

- > Remove the power lead to the Energiser to ensure that the Energiser cannot be plugged back in inadvertently or otherwise during work on the system
- > Ensure that Warning Signs are maintained
- > Include the Energisers in routine Portable Appliance Testing of Electrical Equipment.

Under the Health and Safety at Work Act 1974, the customer/user has a responsibility to follow the advice of the installer and to advise their contractors/staff on the safe use of AVISHOCK™.

It is the customer's responsibility to advise their contractors/staff to:

- > Inform those who might come into contact with the AVISHOCK™ system during the course of their work, that the Energiser must be isolated (unplugged) prior to them working on the building
- > Ensure that they know how to isolate (unplug) the system
- > Specify that ladders are not used on the building whilst AVISHOCK™ is live.

SAFETY LEGISLATION AND GUIDELINES

- > Health and Safety at Work Act 1974
- > Electricity at Work Regulations 1989
- > Management of Health and Safety at Work Regulations 1999
- > Work at Height Regulations 2005
- > BS EN 60335-2-76:2005 Household and similar electrical appliances – Safety – Part 2-76: Particular requirements for electric fence energisers.

RISK ASSESSMENT

A separate Risk Assessment is required if installations deviate from the recommended AVISHOCK™ Installation Instructions.