

SolarDek™ BirdBrush

INSTALLATION GUIDE



Pre-Installation Checklist:

- Inspect the installation area for active bird nests. Refer to RSPB guidelines for nesting seasons.
- Assess the solar array perimeter to calculate the number of BirdBrush units needed
- Measure the length of the total Panel array width and length. Add the total gaps between panels for any mid clamps used, if taking just panel size. This will be the length required. As the brush fits under the panel, you should have built in about 20% over and above length. If in doubt add more lengths and cut to suit, or, fold in last 2 loose ends, both 90 degrees. Cable tie these together and then folding these inside further under the array
- Please remember that BirdBrush can be fitted to the roof mounting system prior to the on-roof installation of solar panels.

Material Specifications:

- Material: Polyethylene terephthalate (PET) - shatterproof and BPA-free, 100% recyclable.
- Stainless Steel central spine - 100% Recyclable.
- Length: 1000mm $\pm$ 10mm.
- Diameter: 160-165mm.
- Connections: Twist-lock end tabs for continuous connections.
- Packaging: Sold in cartons of 20 units.

Installation Steps:

- Ensure the BirdBrush fits snugly against the panels and roof profile without excessive gaps.
- If cutting is required, snip through the stainless-steel core and remove 35mm of bristle to create a new link end.
- Twist back the central core wires with grips to secure the bristles within the core.
- Bend the newly twisted end 90 degrees to adjust the length.
- Connect the BirdBrush lengths by twisting the ends to secure them, ensuring continuous bristle contact.
- Install the BirdBrush either before or after panel installation, securing with cable ties as necessary.

Post-Installation:

- Ensure there are no gaps which could allow bird or animal access.
- Periodically inspect the installation for any issues.

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Further Installation Guidance and Disclaimer

We hope you enjoy using SolarDek BirdBrush with its simple installation process, which removes the need to install a fiddly and expensive clip-based system attached to the edge of the solar panels. Please note the following important points prior to installation.

- BirdBrush should be installed by a specialist and experienced solar system installer with the necessary training.
- When installing the product, installers should:
 - Avoid scratching the stainless-steel core with sharp objects
 - Test connections for security and avoid excessive tightness that may strain the joints
- The installer is responsible for ensuring that BirdBrush is a suitable and safe solution for the installation due to the huge variation in solar systems and roof types.
- DEKS does not assume any responsibility for the correct use, suitability and/or installation of BirdBrush.
- The installer and owner must adhere to applicable building regulation guidelines.
- The installer should also adhere to applicable Health and Safety regulations and guidelines, noting the risks inherent in at-height working.
- DC arc faults can occur wherever there are joints in the DC cables, a breakdown of cable continuity or a breakdown of insulation, which can be caused by a number of factors including previous bird/ animal attack. BirdBrush must not be installed next to or close to any cables and/or connectors that could arc. We recommend that suitable arc protection is used to try and eliminate arc events.
- DEKS cannot be held responsible for any damage arising from a failure to install suitable arc protection.
- If BirdBrush is retrofitted to existing PV systems, please ensure that it is not breeding season as in some jurisdictions moving nests can be a punishable offence.
- Guano present on existing systems can be hazardous to health, please ensure you follow the correct guidelines for dealing with this if it is present during the installation of BirdBrush.
- Whilst BirdBrush should act as an effective deterrent to bird / animal ingress we cannot guarantee 100% protection and the installation should be periodically inspected and well maintained.