

SolarDek BirdMesh – Technical Documentation

Product: SolarDek BirdMesh System
Version: SDBM-KIT – 1 x 30m and 150 clips
Manufacturer: DEKS Industries
Document Type: Technical Data Sheet
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1. Product Overview

The **SolarDek BirdMesh System** is designed to protect solar panel arrays from birds and other pests nesting, debris accumulation and potential damage to and under panel equipment. The system combines a durable, UV-protected PVC-coated welded mesh with strong polycarbonate clips for secure, non-penetrative installation.

It offers an efficient and long-lasting barrier that maintains solar performance and reduces maintenance costs.

2. Mesh Specifications

Parameter	Description
Product Name	SolarDek BirdMesh
Part Number	SDBM-KIT
Roll Length	30 meters
Roll Height	200 mm
Mesh Opening Size	25 mm × 12.5 mm
Wire Gauge / Diameter	16 gauge / 1.5 mm
Material	Hot-dipped galvanised wire, PVC coated (black)
Coating Features	UV-protected PVC coating
Weight per Roll	5.47 kg
Roll Dimensions (W × L)	200 mm × 30 m
Packaging	60 rolls per pallet (12 pcs/layer × 5 layers)

Parameter	Description
Wrapping	Plastic wrapped for protection

3. Clip Specifications

Parameter	Description
Product Name	SolarDek BirdMesh Clip
Part Number	SDBM-KIT
Quantity per Box	150 clips
Clip Size	30 mm / 35mm
Material	Polycarbonate with UV inhibitor
Weight per Box	0.1 kg
Packaging	600 boxes per pallet

4. Ordering Guide

Mesh Rolls (30 m each)

To determine the number of mesh rolls required:

$$\text{Rolls Needed} = \left(\frac{\text{Perimeter} \times 1.10}{30} \right)$$

(Includes 10% allowance for overlaps and cuts)

Clips (Boxes of 150 clips)

Approximately 5 clips are required per meter of array perimeter.

$$\text{Boxes Needed} = \left(\frac{\text{Perimeter} \times 5}{150} \right)$$

Simplified formula:

$$\text{Boxes Needed} = \left(\frac{\text{Perimeter}}{30} \right)$$

5. Worked Examples

Example	Array Dimensions	Perimeter (m)	Mesh Rolls	Clip Boxes
Single 4×8 Panel Array	≈6.8 m × 3.4 m	20.4	1 roll	1 box
Two Panels Side-by-Side	≈10 m × 3.4 m	26.8	1 roll	1 box
Large Commercial Edge	Perimeter = 85 m	85	4 rolls	3 boxes

6. Storage & Handling

- Store in a **dry, covered** area to prevent corrosion.
 - Avoid prolonged exposure to **direct sunlight** before installation.
 - Use **appropriate PPE** (gloves, safety glasses) when handling mesh.
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7. Installation Notes

- The **BirdMesh clips** are designed for non-invasive installation — no drilling or panel penetration required.
 - Ensure consistent **tension** and **alignment** of mesh along the panel perimeter.
 - Overlap mesh sections by **at least 100 mm** for continuous coverage.
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8. Safety & Compliance

- Complies with **UV protection standards**.
 - PVC coating tested for **outdoor durability** and **corrosion resistance**.
 - Polycarbonate clips include **UV inhibitors** for long-term performance.
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9. Product Summary

Component	Part Number	Quantity	Units per Pallet	Weight
BirdMesh Roll	SDBM-KIT	30 m	60	5.47 kg
Clip Box 30/35mm	SDBM-KIT	150 clips	600	0.1 kg

Manufacturer

DEKS Industries Europe Ltd

www.deks.co.uk

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