



# THE DEFENDER JAWS<sup>®</sup>

## SOLAR PANEL BIRD EXCLUDER

NO CLIPS | NO GLUE | HALVES INSTALL TIME

**FITS ALL  
STANDARD:  
30 mm | 35 mm  
SOLAR PANELS**  
The most common  
panel sizes.

## Install Guide

### 1 Clean & Check for Birds

Before starting the installation, you must ensure that the space beneath the solar panels is completely free from birds, chicks, or active nests. All wild birds are protected under UK law, and nesting birds must not be disturbed. If a nest is in use or chicks are present, work must be delayed until the nest has been fully abandoned.

Once a nest is confirmed as abandoned, all nesting material and debris should be carefully removed before installing the Defender Jaws<sup>®</sup> Solar Panel Bird Excluder.



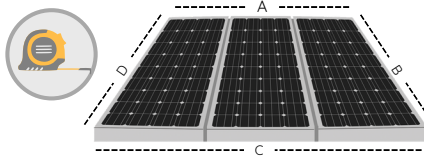
### 2 Measure

The edge of your solar panel must be **30mm** or **35mm** for Defender Jaws to fit correctly. This is the most common size edge for most panels, but if unsure, always measure.



To calculate how many metres are required, measure the full perimeter of all panels being protected, ensuring no gaps are left.

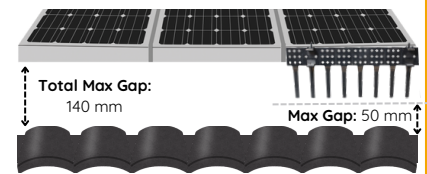
Measure each edge and add them together, for example: **A + B + C + D = total length required.**



### 3 Max Gap

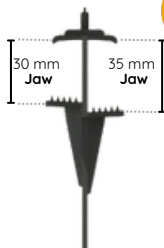
The maximum distance between the bottom edge of the solar panel and the roof must not exceed **140 mm**. This measurement allows for the full height of the Defender Jaws<sup>®</sup> prongs plus a maximum permitted gap of **50 mm** between the bottom of the prongs and the roof tile.

Any gap larger than this may allow pigeons to gain access beneath the solar panels, so **no gaps exceeding 50 mm** should be left anywhere.

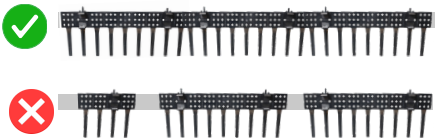


### 4 Begin Fitting

Each side of the reversible clip is clearly labelled. One side is designed to fit **30 mm** panel frames and the other **35 mm**. Make sure the correct side is selected before fitting.

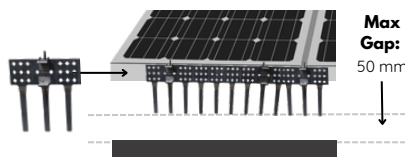


Once the correct side is selected, simply press the strip into position by hand. It will snap securely onto the side of the panel, creating a tight fit. Continue along the row, ensuring the strips are fitted tightly together and that no gaps are left.



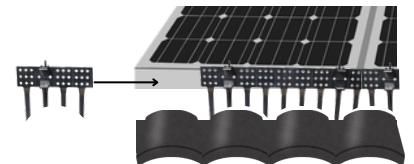
### Flat Tiled Roof

For a flat tiled roof, little to no cutting should be required. Ensure the gap between the tips of the prongs and the roof tile **does not exceed 50 mm**, and make sure there are no gaps anywhere along the perimeter.



### Undulating Roof

If required, use snips to shorten the prongs and the strip length to follow the roof profile accurately. Maintain continuous coverage and ensure there are no gaps anywhere along the perimeter.



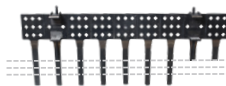
### Shortening Prongs or Strip Length

Snips are supplied for shortening strip length and prong height.



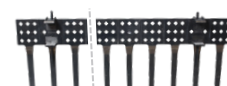
### Prong Height

Use cutting lines to shorten prong height with snips.



### Strip Length

Cut the strip to finish the run, leaving no gaps.



### Double Protection

With heavy infestations, pigeons may also perch along the top edge of the solar panels.

If this needs to be prevented, Defender Thistle<sup>®</sup> spikes can be attached (purchased separately) using the integral attaching posts along the top of the Defender Jaws<sup>®</sup>. The Thistle<sup>®</sup> strips simply press and lock into position.

One strip of Defender Thistle<sup>®</sup> can be used in combination with one strip of Defender Jaws<sup>®</sup> to provide additional protection along the panel edge.

