Introduction

This guide is intended to compliment Renusol manuals that are available on www.constructionpv.ie. The roofer should also look at the video on the roof flashings page to see how the flashings are installed.

The following are answers to the most common questions that we receive about mounting the pv panels.
Mounting Rail Spacing

The mounting rails should be spaced apart as above. For example, using a 1.6m high panel, the rails should be spaced approx. 0.8m apart and the panels should be clamped so that they overhang the rails by 0.4m at the top and bottom.

Roof Hook Spacing

The first and last roof hook must be within 0.2m of the end of the mounting rail. The distance between the roof hooks should ideally be 0.6m – 0.8m. It is possible that this arrangement does not fit on a particular roof, additional hooks would have to be used.
Mounting Rail Cuts

If the installation is four or more panels wide, the mounting rail will need to be cut to length and a joiner fitted.

The ends of the rails need to be square to fit the end caps. Where possible, make your cuts to the joiner end of the rail. The joiner has a rivet at the centre line. The joiner should be inserted into the rail by hand up to the rivet.

Black Mounting Rail Cuts

The black mounting rail is only visible at the ends. On wider installations, we supply a black rail and a silver rail to extend it. The black rail needs to be cut in two. The silver rail needs to be cut to length and then joined to the black rail.

Before cutting the rail, ensure that the cuts do not line up with the roof hooks

The joiner should be inserted into the rail by hand up to the rivet.

Flashing for Roof Hooks

Slate and plain tiles will require a slot to be cut for the roof hook. Make the slot wide enough for the flashing.

Wavy tile roofs do not usually require flashing – see Variosole manual for details, link to manual on http://constructionpv.ie/varisole-range
Depending on the thickness of the tile used, an additional shim maybe required to bring the hook up to the required height so that it sits above the tile.

Additional Shim
Thickness will depend upon the tile used.