

Fixing Guide

Solar Limpet - Slate Roof (LIMPET-SR)



Solar Limpets are warranted for 20 years, providing the installation is carried out by a Solar Limpet certificated installer, the installation instructions have been complied with in full and the roof was surveyed as suitable for PV installation.

Important Information

- For use natural and artificial slate Max 10mm thick.
- Allow a maximum of 1.2m between Limpet roof hooks, depending on site conditions, using only screw fixings seals and CT1 sealant supplied by Solar Limpets.
- Wind uplift resistance as tested: 3075.4 N (per bracket)
- Compatible with 22.5 – 60° pitched roof designs
- The Solar Limpets Slate Roof System is compatible with timber rafters suitable to ensure a minimum of 30mm screw embedment. Minimum rafter timber dimensions 35 x 100 mm.
- Suitable for above roof installations
- The Limpet roof hook is compatible with the currently available side-mounted rail systems and the associated rail manufacturers' standard rail-to-roof hook connecting bolt.

Maintenance

Installed correctly by a certified installer, the Solar Limpets system is maintenance-free.

Fixing Components | SL-SRS-25KIT

The system comes in boxes of 25 Solar Limpets and fixings.

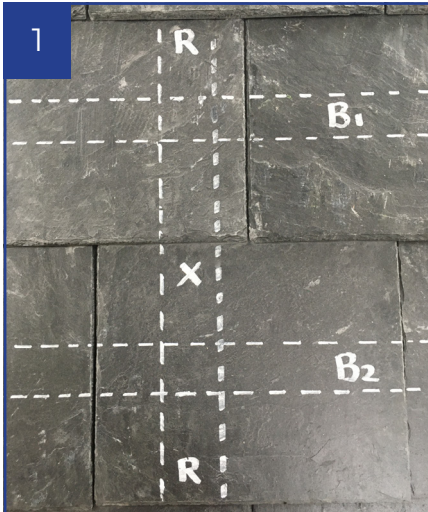
Please Note: The kit does not include rail connecting bolts, which are sourced from your rail supplier.



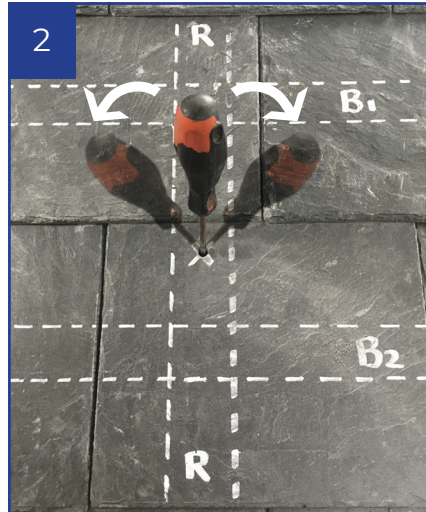
- 1 25x Limpet Base Plate *SL-BP00001*
- 2 25x Limpet Adjustable Bracket *SL-AB00001*
- 3 25x Adjustable Bracket to Base Plate Bolt *SL-ABBP01*
- 4 25x Adjustable Bracket to Base Plate Washer *SL-ABBPW01*
- 5 25x Adjustable Bracket to Base Plate Nut *SL-ABBP01*
- 6 50x Base Plate Fixing Screws *SL-BPFS115*
- 7 50x Base Plate Fixing Screw Washers *SL-BPFSW01*
- 8 30x Test Hole Plugs *SL-THP0001*
- 9 50x Base Plate Seals *SL-BPS0001*
- 10 1x CT1 Sealant *SL-CT10001*

Fixing Guide

Locate the batten & rafter positions using the Bosch GMS120 Professional metal detector.
(Rafter R & battens B1 & B2 below marked for guide illustration purposes only)



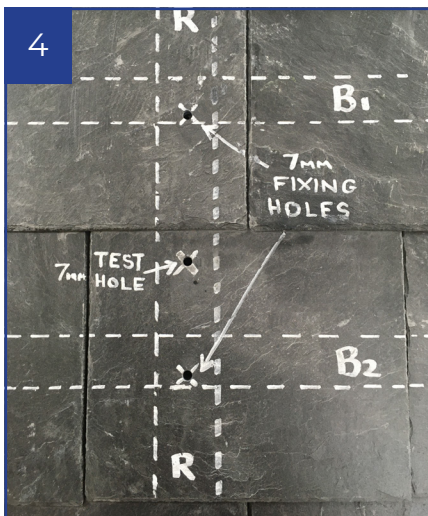
After locating the battens B1 & B2 & rafter R positions. Mark the test hole position X. As shown away from the Battens B1 & B2.



Drill out a 7mm test hole. Using a screwdriver probe, establish the presence of a rafter & sufficient rafter timber either side of the test hole.



Place Limpet in the fixing position shown to spread any compression load to the battens B1 & B2. Drill through each X marked fixing point on the Limpet using a 7mm tile drill. Sufficient to mark the slate below.



Drill out the two marked fixing hole positions with a 7mm tile drill.



Ensure the EPDM Primary Seals have been fitted into both outer primary seal housings.



Apply a small blob of CT1 onto the test hole & insert the white plug to seal.
Ensure the slate surface is clean and dry.
DO NOT APPLY IN THE RAIN



Apply CT1 onto each fixing hole, leaving a 20mm diameter raised portion over each point.
Ensure the slate surface is clean and dry.
DO NOT APPLY IN THE RAIN



Fix into place using the screws & aluminium EPDM washers supplied. Tighten only until the aluminium washer cover starts deflecting.
DO NOT USE IMPACT DRIVERS



FOR ILLUSTRATIVE PURPOSES
 Image shows how CT1 sealant has been distributed within the EPDM seal once fitted.



FOR SLATE APPLICATION
 Insert the adjustable bracket, flat side facing forwards.



When fixing the rail to the adjustable bracket, tighten until the nut bites & then another half to one-third turn is sufficient.
DO NOT OVERTIGHTEN



Fit the adjustable bracket bolt, washer & nyloc nut as shown.
Tighten ONLY until the nut sits flush with the end of the bolt.

4 & 6mm Cable Entry Flashing

One of your Limpet base plates can be adapted for use as a simple weatherproof cable flashing.

1



Firstly, cut the limpet base plate in half with a wood saw, and dispose of the adjustable bracket section.

2



For this application, the limpet base plate butts up to the slates lap. Positioned between two rafters and about 250mm below the internal loft underfelt lap.

3



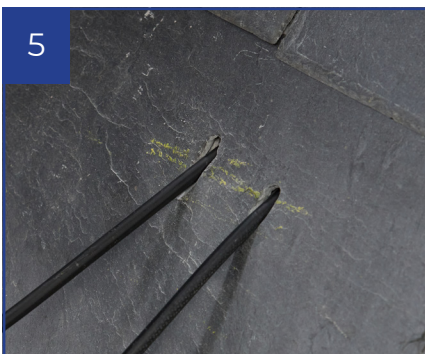
Using the cut top section of the Limpet base plate, mark two points on the slate, about 70mm down from the slate lap, and the width of the recessed channel on the bottom of the limpet base plate.

4



Drill out the two marked holes through the slates being careful to avoid penetrating the underfelt. Once through the slates, continue drilling bringing the drill slowly down from vertical to horizontal, thereby elongating the two holes.

5



Feed the cables into the roof via the holes. Secure the cables inside the loft at the length required. The cables will now sit snugly in the base plate channels.

6



Place the baseplate over the cables, butted up to the slate lap. Using a small 1/8th of an inch drill bit, drill through the dimpled top fixing point of the baseplate just far enough to mark the slate surface.

7



Remove the baseplate section, and drill through the slate with the 1/8th of an inch drill bit. Self tap a small wood screw through the hole and then remove.

8



Clean and apply CT1 sealant around the cable entry points, and the drilled hole. Apply CT1 sealant to the top and side edges of the limpet base plate section.

9



Place the limpet base plate section over the cables. Insert and tighten the wood screw to secure it. Apply CT1 sealant around the top and sides of the base plate, screwhead and slate abutments above the base plate.



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