

Advice for Installing Collector Rails



**Remember Health & Safety
When working at heights**

Sp collector rails can be used directly with RB20 /RB55 roofing brackets, or the RBSS180/8 roof bolt. This railing system will simplify the installation process of the collector frames and is designed to aid in the speedy installation of solar collectors, particularly where two or more collectors are installed in series. (one after the other).

The rails are manufactured from 6060 aluminium with an anodised coating. This combination leads to a very strong and anti corrosive aluminium material.

Should you be using multiple collectors, a connector RL-CONNECTION is available to connect the end of one rail to the end of the next.

Installation on RB20 / RB55

Simply install the roof brackets in accordance with the instructions. Once the brackets are installed and inline, you can slide the rail through the square hole in the bracket fin.

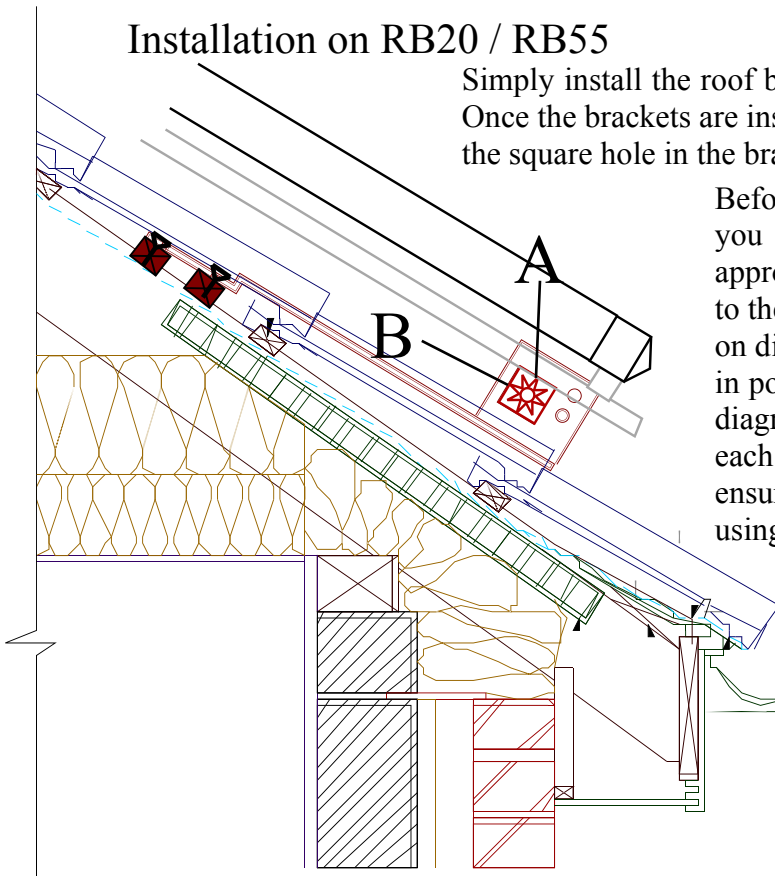
Before inserting the rail through the next bracket fin, you will need to insert the T bolts into their approximate positions. The 40mm Bolt for connection to the collector should slide down the top slot (face A on diagram), and the smaller bolts for locking the fin in position will slide down the back slot (face B on diagram). For securing the fin, install a 20mm Bolt on each side of the fin, place a 2mm washer over the bolt ensuring the washer is butted up to the fin and secure using the M6 Nuts.

If you are installing multiple rails, use the rail connection kit to continue to the next rail in line.

Once the rails are in position, offer the assembled frame and manifold to the rails and clamp in position. Once all the frames in series are in line and connected together, you can proceed with bolting the frames to the rails.

**Check out the THE SOLAR SHOP
web site, page HSE for Advice on
working at heights**

Where the vertical frame section intersects the rail T Bolt, drill an 6mm hole through the top of the frame channel. Lift the frame section, slide the bolt under and through the hole and secure with the M6 flanged nut.

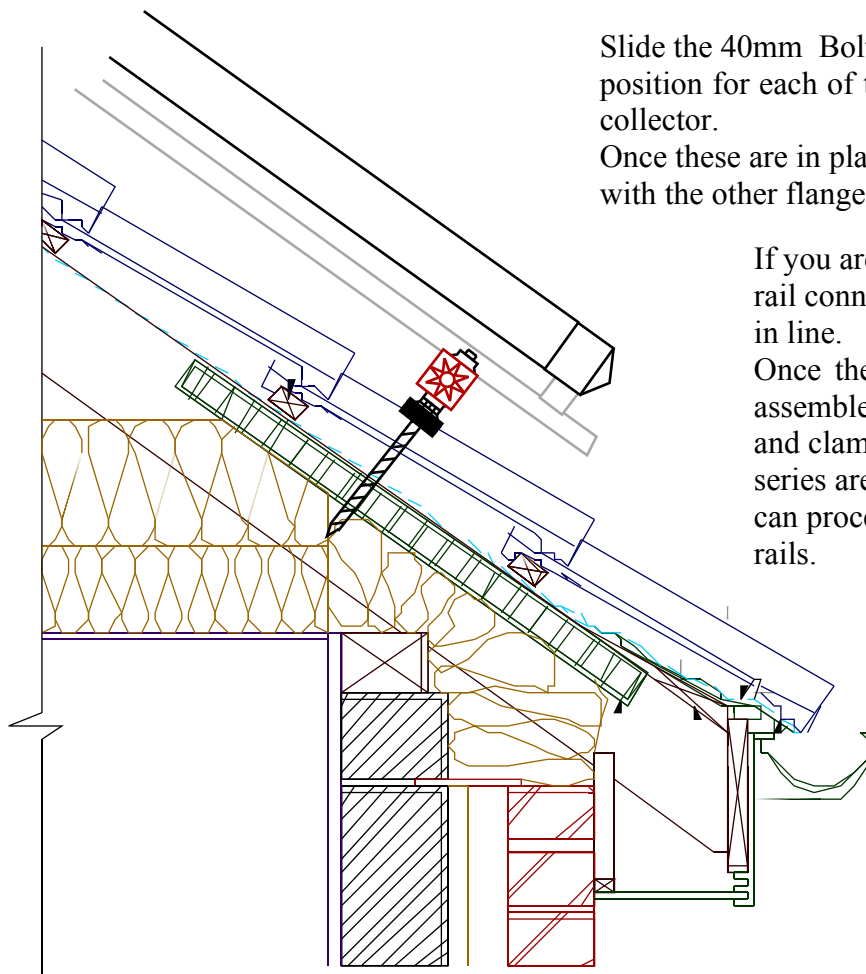


Installation on RBSS180/8 Roof Bolts

Simply install the roof bolts in accordance with the instructions. When you are using the rail system with roof bolts, you can install the roof bolts directly into the appropriate roof joist and do not need to install noggins to locate the bolts. When you install the bolt, take care to fit the bolts in a straight level line.

Next, offer the rail to the bolt and mark the positions where the bolts meet the rail. Drill the rails using an 8mm metal drill bit, directly through the centre of the rail.

Place the tile seals and washer over the bolt and secure with the flange facing up. Next offer the rails over the top of the bolts and ensure they sit level with the roof surface.



Slide the 40mm Bolts down the slot to their approximate position for each of the vertical frame sections of the collector.

Once these are in place you can continue to fix the rail with the other flanged lock nut.

If you are installing multiple rails, use the rail connection kit to continue to the next rail in line.

Once the rails are in position, offer the assembled frame and manifold to the rails and clamp in position. Once all the frames in series are in line and connected together, you can proceed with bolting the frames to the rails.

Where the vertical frame section intersects the rail Bolt, drill an 6mm hole through the top of the frame channel. Lift the frame section, slide the bolt under and through the hole and secure with the M6 flanged nut.



**Part Number:
RL-CONNECTION**
For connecting rail sections
Together.

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The content of this data sheet is to serve as advice only, every roof is different therefore it is not possible To account for all eventualities, if in doubt call for advice or contact a roofing professional.