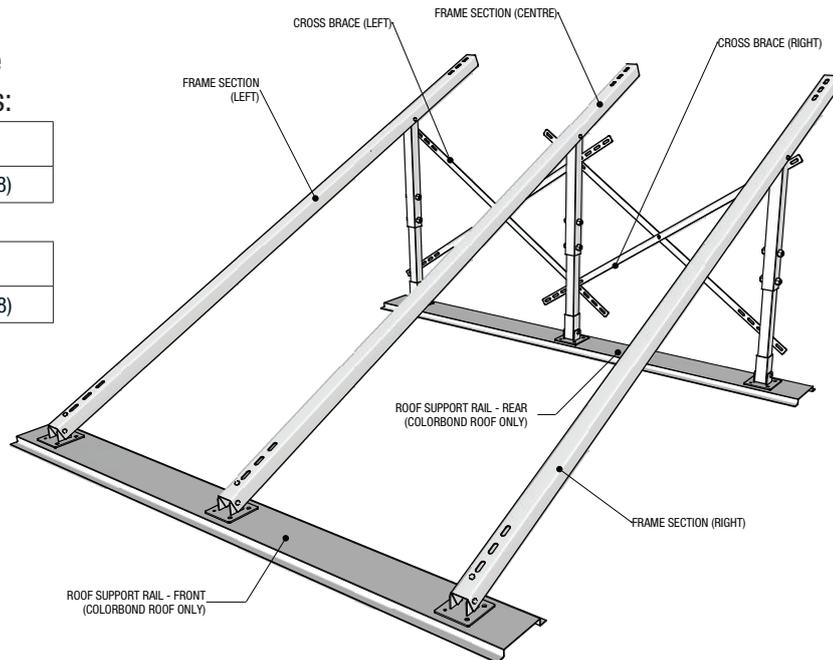


# Pumped (Split) Systems: Installing Evacuated Tube Collectors on Flat Roof Stand

Standard kits included with the solar thermal collector systems:

20 tube collector system
1 x Stand kit for evacuated tubes (K2008)

30 tube collector system
1 x Stand kit for evacuated tubes (K2008)



## Initial stand assembly & installation

- Attach the foot of the back leg securely to the flat roof area by one of the following methods:
  - Concrete: Fix directly into concrete using dynabolts
  - Colorbond roof (or similar): Firstly attach the foot of the back leg to the roof support rail using the supplied tek screws. Then attach the roof support rail through the roofing material and into the purlin / frame below

Ensure all possible water entry points are appropriately sealed.

*(Repeat this process for the other back legs, using the centre spacing dimensions as detailed below)*

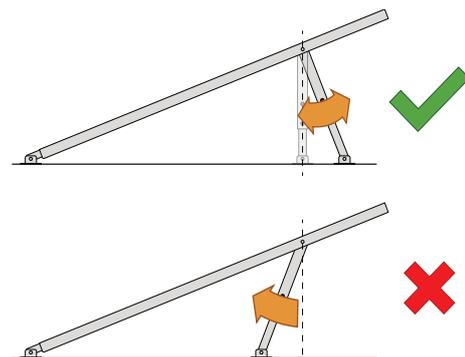


Fig 1

Centre Spacing Dimensions	
20 Tube Evacuated tube rack	780mm
30 Tube Evacuated tube rack	1170mm

- Adjust the side stand section until the front foot sits over suitable fixing substrate (i.e. purlin) and repeat process outlined in step 1. (Ensure that back leg section maintains a structural angle as shown in fig 1)
- Adjust stand angle to desired position by lifting the back of the side section causing the back leg section to telescope. Once at the desired angle, tighten the sliding back legs with the black grub screws (4 per leg) as shown in Fig 2
- Attach the two sets of double back brace to rear legs with overlap positioned towards the centre using the tek screws provided. See Fig 3

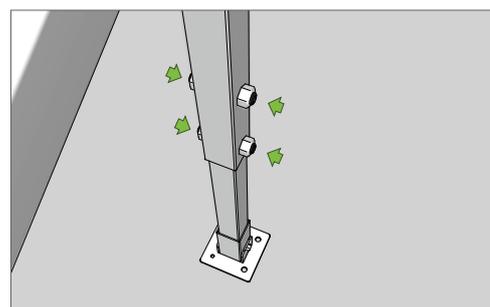


Fig 2

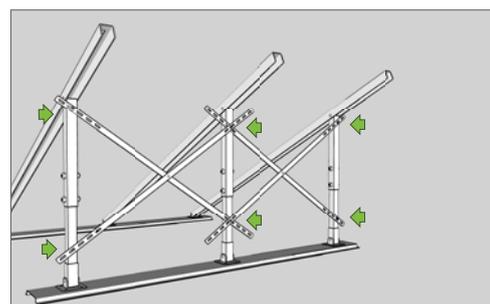


Fig 3

See the the full range of mounting angles for this frame at [www.chromagen.com.au/frame-mounting-angles](http://www.chromagen.com.au/frame-mounting-angles)

### Evacuated tube system attachment

5. Position header along the top sections of stand assembly locating the threaded studs into the existing slotted holes in each section of the stand. Fix header section into position by using the supplied hex nuts with spring and flat washers at the stand underside location - 6 locations (Fig 4)
6. Measure down from header section the required dimension and mark position for the footer rail. Fix footer rail into position using the supplied tek screws - 6 locations (Fig 5)
7. Just above the stands back leg, position and fix the support rail brace using the tek screws supplied - 3 locations (Fig 6)
8. Remove the screw caps from the footer rail ready for the installation of the evacuated tubes (Fig 7)

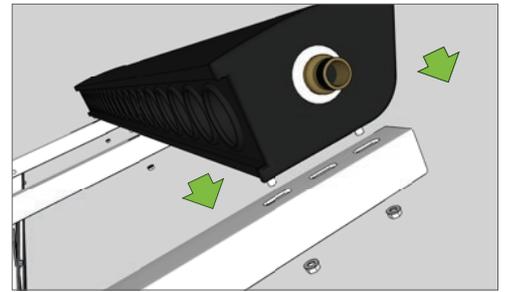


Fig 4

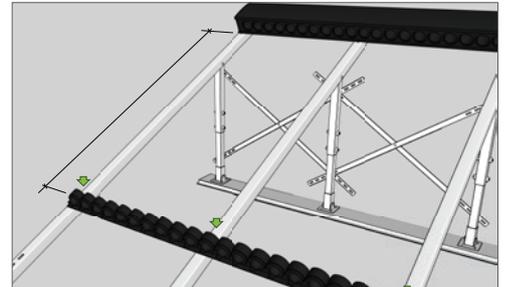


Fig 5

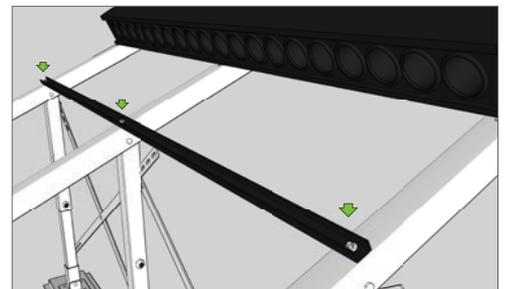


Fig 6

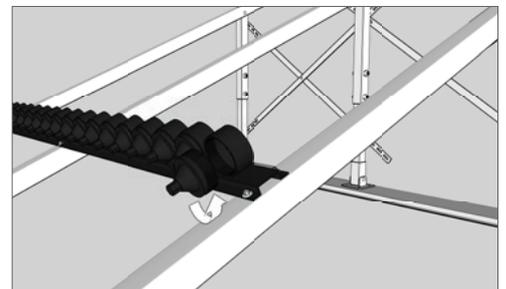


Fig 7

### Inserting the Evacuated Tubes

9. Using protective gloves carefully remove tubes from the protective carton, taking care to avoid damage
10. Fit the rubber seal and apply a small amount of heat transfer compound (white paste) to the top of the heat pipe (Fig 8)

NOTE: This compound should not be handled without protective gloves, refer to paste manufacturer indicated on packaging for MSDS.

11. Insert tubes through bottom footer pipe and push into header pipe assembly
12. Screw base cap into footer pipe to secure tube and gently tighten (Fig 9). Do not over-tighten as this may damage glass tubes. Repeat process for all of the tubes



Fig 8



Fig 9

### Solar flow and return lines

Run the solar flow and return lines from collector/s to tank using insulated copper (or similar high temp material) with a gradual fall to the storage tank. Approved flashings must be used when penetrating the roof, following the flashing manufacturer's recommendations

### Sensor wire

The solar sensor wire will need to be run with the flow and return lines from collectors to tank. Make sure the sensor wire is inserted into the sensor fitting and sealed. Ensure the sensor wire is protected from damage. If this wire is cut or broken it will need to be replaced.

**Ensure the sensor wire does not come into contact with the collector or tank flow and return line. Care should be taken to ensure that the sensor wire is protected from damage. The use of protective conduit is advised.**

NOTE: Illustrations within this document are indicative only.



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