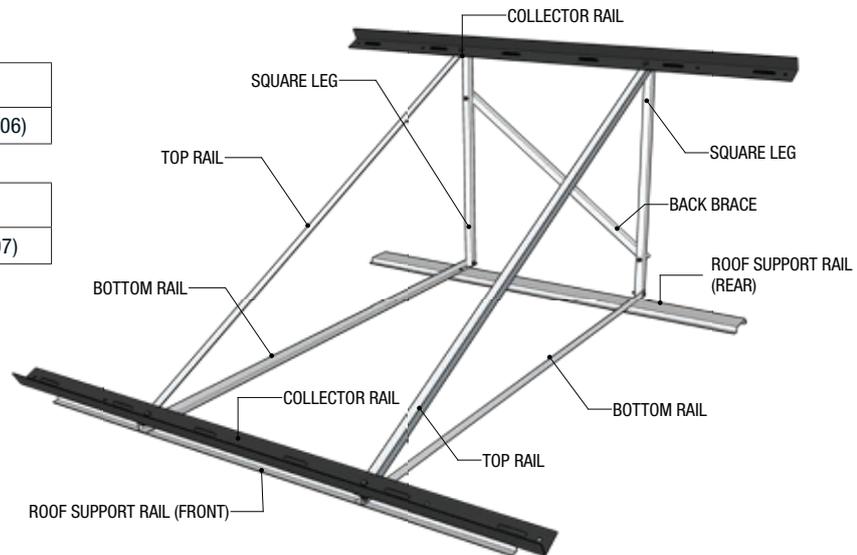Pumped (Split) Systems:
Installing Flat Plate Collector on Flat Roof Stand (Light Duty)

Standard kits included with the solar thermal collector systems:

Single collector system
1 x Stand kit for single flat plate collector (K1006)

Two collector system
1 x Stand kit for two flat plate collector (K1007)

Labels: COLLECTOR RAIL, SQUARE LEG, TOP RAIL, SQUARE LEG, BACK BRACE, ROOF SUPPORT RAIL (REAR), BOTTOM RAIL, COLLECTOR RAIL, BOTTOM RAIL, TOP RAIL, ROOF SUPPORT RAIL (FRONT)

Assembling & Installing the Flat Roof Stand

1. Set out both of the roof support rails parallel to one another in the approx desired location.

2. Position both the bottom rails (the medium sized angle pieces) across the two roof support rails.

3. Fasten the bottom rails to the roof support rails using the existing holes with the supplied M6 hex screw with washer into the fixed nut on the roof support rail. (Fig 1)
Note: Please ensure the bottom lip on both rails face one another

4. Attach the roof support rails to the flat roof area by one of the following methods:

   o Concrete: Fix directly into concrete using dynabolts.

   o Colorbond roof (or similar): Fix through the roofing material and into the purlin / frame below

Ensure all possible water entry points are appropriately sealed.

5. Locate the two square legs (box sections) and position vertically on the lip of the bottom rails at the far end and fix into position. (Fig 2)
Note: Please ensure the legs are positioned with the existing holes at opposite ends to one another for angle bracing (Fig 3)
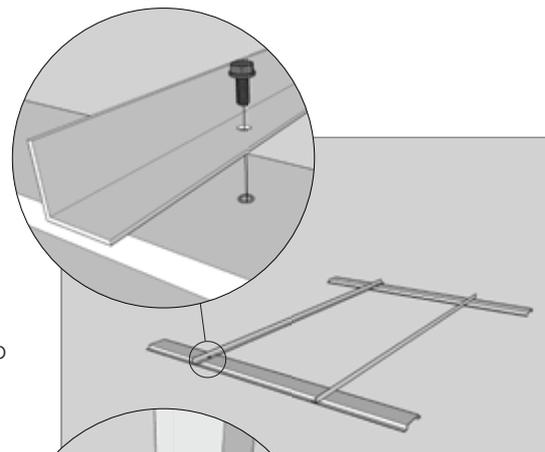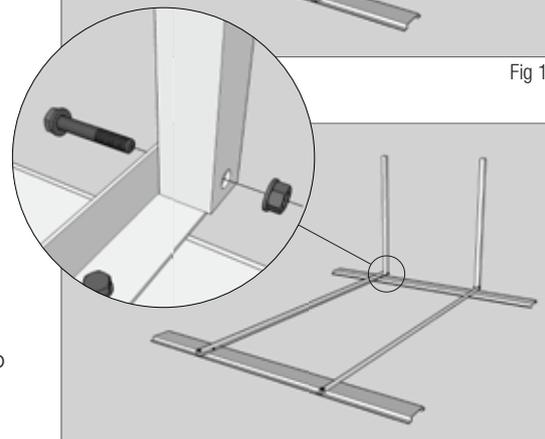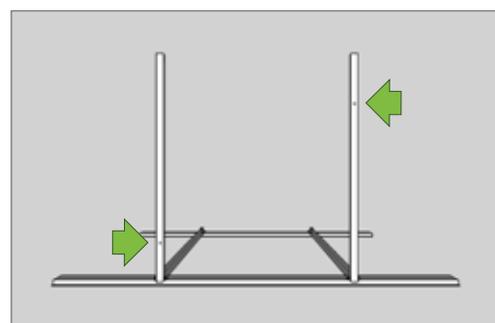

Fig 1

Fig 2

Fig 3

Collector Stand
Flat Roof

1

6. Position the top rail from the front edge of the bottom rail to the top of the square legs (Fix 4). Note: Please ensure the upper lip on both rails face one another

7. Fasten into position using the supplied M8 bolt, nut and washers in four locations

8. Position the back brace (short length angle) across the square legs on an angle and fix into position using the existing holes with the supplied M8 bolt, nut and washer (Fig 5)

9. Fit the black collector rails across the top rails at both the upper and lower postions using the supplied M8 bolt, nut and washers (Fig 6). Note: Please ensure these are fitted with the bottom lip facing towards each other
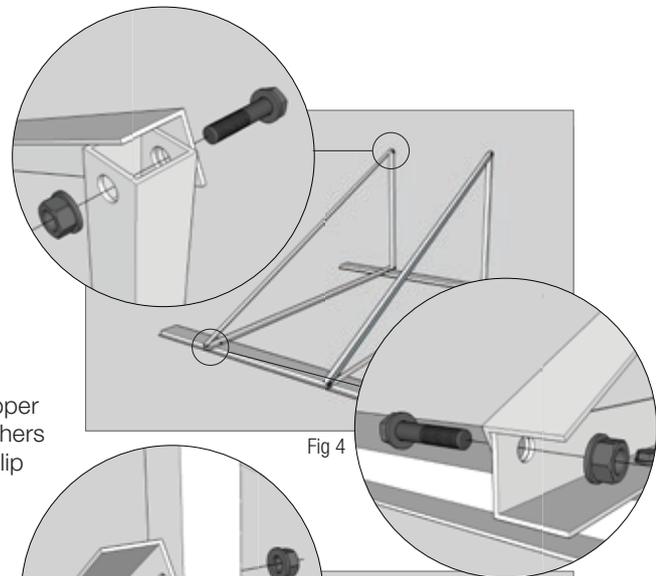
Flat Plate Panel Attachment

10. Before preparing to lift the collector/s into position install all brass fittings using appropriate jointing methods and referring to the collector connection table (refer to the instructions accompanying the flat plate collector/s system)

11. Position the collector/s between the black collector mounting rails (Fig 7)

12. If multiple collector panels are being installed connect panels using barrel unions provided

13. Secure the collector panel/s into position by screwing through the black collector rails and into the collector/s using the supplied screws (Fig 7)
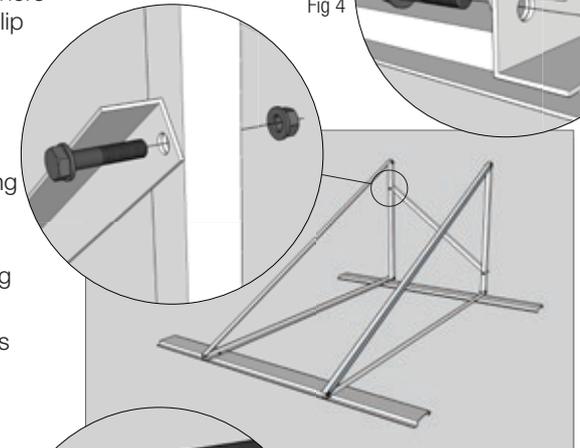
Frost Protection
Frost valves are required for all solar hot water systems installed in Victoria and areas where the temperature drops below 10°C.

Solar flow and return lines
Run the solar flow and return lines from collector/s to tank using insulated copper (or suitable 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
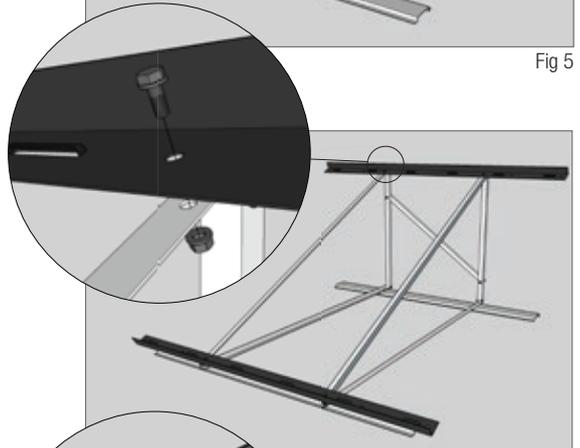
Sensor wire
The solar sensor wire will need to be run with the flow and return lines from collectors to tank. Make sure the sensor wire is inserted into the sensor fitting and sealed. Make sure the sensor wire is protected from damage. If this wire is cut or broken it will need to be replaced.

Ensure the sensor wire does not come into contact with the collector or tank flow and return line, as very high temperatures can interfere with the sensor wire and cause the solar controller to malfunction.

Care should be taken to ensure that the sensor wire is protected from damage. The use of protective conduit is advised in high traffic areas and to protect against damage by wildlife / rodents.
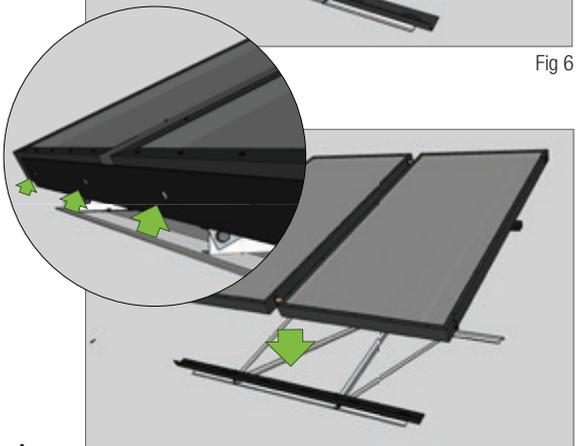
Fig 4

Fig 5

Fig 6

Fig 7

Looking for More Installation Instructions?
Visit www.chromagen.com.au/shw-documentation or scan QR code

Need the Owner's Care & Maintenance Guide?
Visit www.chromagen.com.au/owners-guide or scan QR code

Collector Stand
Light Duty
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