

		GroundLock Supplement	created	JM
			checked	JL
Tech. Bulletin	Rev. Nr. 1.2		valid from	18.09.2012

INTRODUCTION

The following supplement has been released in addition to Version 1 (August 2011) of the GroundLock installation manual. It aims to clarify assembly procedures that may have been unclear in the installation manual.

PARTS LIST

CAD Number	Part Name / Sales Code	Part Description	Qty.
1000001C00	SLR3.2	SunLock Railing - 3200mm	8
1000033C00	SLMC004	Mid Clamp 50	16
1000031C00	SLEC038	End Clamp	16
1000010C00	Rail joiner	SunLock rail joiner - 150mm	24
1000084C00	GroundMount - Horizontal base frame	152 x 64 x 19.5 x 2.4 galvanised channel - 3000mm	4
1000085C00	GroundMount - Rear post long	152 x 64 x 19.5 x 2.4 galvanised channel - 2100mm	2
1000086C00	GroundMount - Front/Rear posts - short	152 x 64 x 19.5 x 2.4 galvanised channel - 1800mm	6
1000087C00	GroundMount - Channel joiner	150 x 50 x 3 aluminium folded angle - 200mm	2
1000088C00	GroundMount - Rear cross bracing	40 x 3 flat aluminium - 1350mm	8
1000089C00	GroundMount - Rail mounting bracket	160 x 80 x 6 aluminium plate (triangle)	24
1000090C00	GroundMount - Vertical upright	40 x 40 x 6 aluminium angle - 1000mm	8
1000091C00	GroundMount - Base frame mounting feet	50 x 50 x 6 aluminium angle - 40mm	16
1000092C00	GroundMount - Railing cross brace	40 x 40 x 3 aluminium angle - 1250mm	8
-	N46MG0800N2	M8 nut - galvanised	44
-	NNYM40800N2	M8 nyloc nut - SS 304	64
-	WSPMG08MFW2	M8 spring washer - galvanised	44
-	301M8ST	M8 tooth lock washer - SS 304	48
-	B46MG080251	M8 x 25 HH bolt - galvanised	44
-	SSCM4080252	M8 x 25 SHCS - SS 304	112
-	WFRI408H0W2	FLT WASHER 5/16X1X16G - SS 304	72
-	SLELBT	EarthLock bonding terminal assembly	4
-	SLELW01	EarthLock washer	16
-	B46MG121001	M12 x 100 HH bolt - galvanised	8
-	N46MG1200N2	M12 nut - galvanised	16

Prior to installing the GroundLock frame, ensure that all parts are included by cross checking with the supplied list.

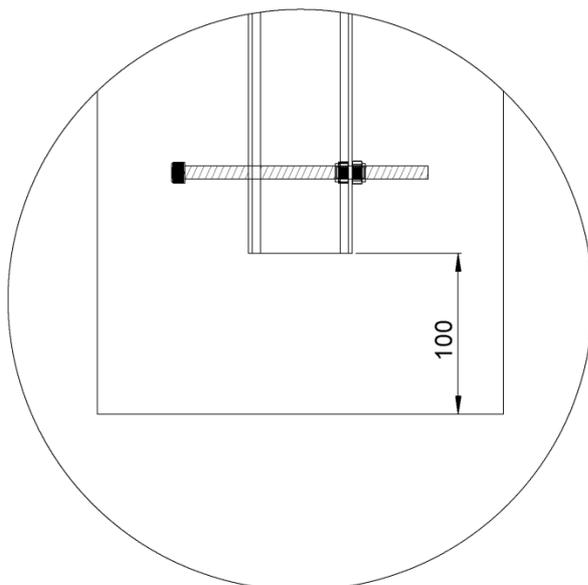
If any parts are missing from the list contact Apollo Energy on:

1300 855 484

sunlock@apolloenergy.com.au

GUIDE TO USE

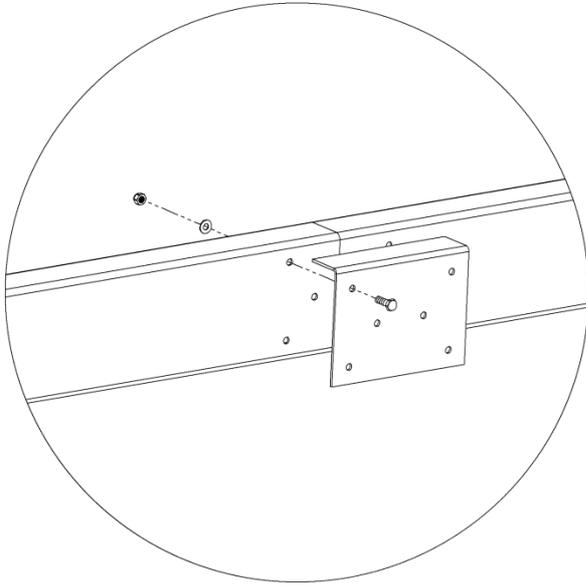
Attaching anchor bolt



Prior to placing the galvanised posts into their respective holes, drill a hole in the end of the post and securely fasten a M12 bolt and nuts in place as shown.

Ensure that there is 100 mm of concrete beneath the base of the post prior to filling in the remainder of the hole.

Splicing horizontal beams

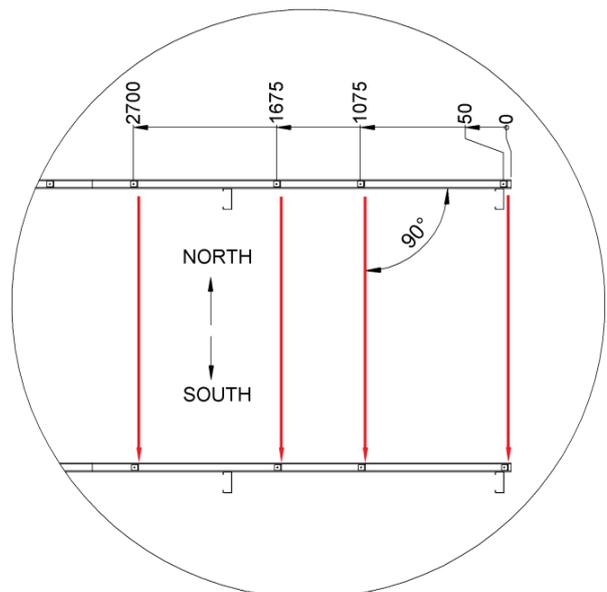
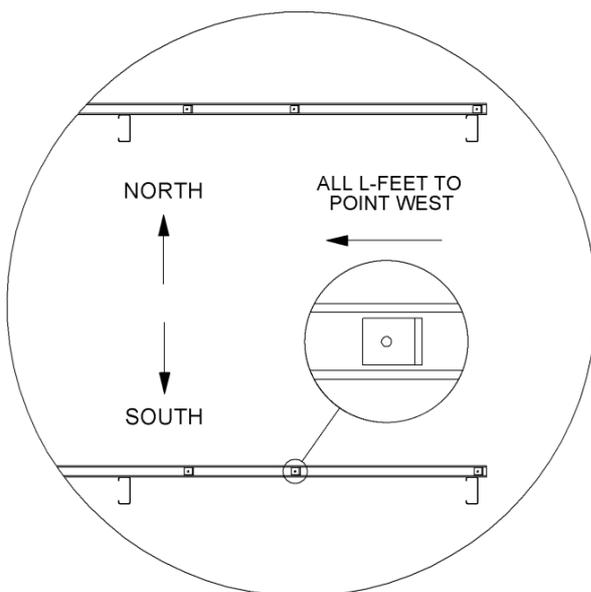


The splicing bracket is used to connect two horizontal galvanized beams together to form a single length. Prior to fastening the horizontal beams to the vertical posts together, lay the horizontal sections on the ground and butt opposing ends together to form a 6-metre length. Clamp the splicing bracket to the two beams and use the holes in the splicing bracket as a template to drill holes in the galvanized beam. Fasten together securely with supplied M8 galvanised hardware (6 per length)

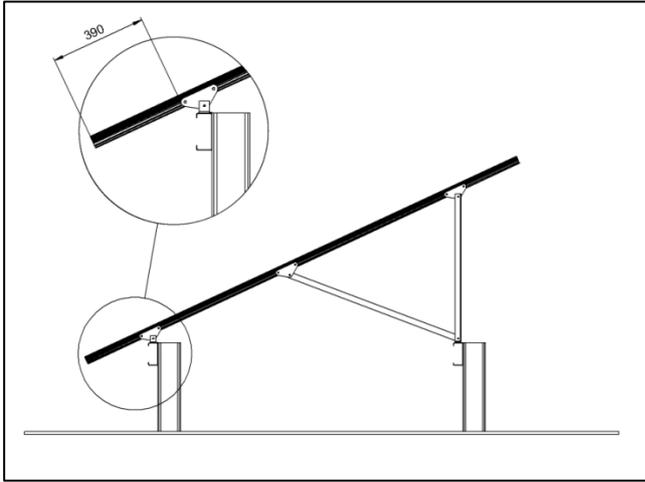
L-feet location and orientation

All L-feet are to be installed with the bases pointing west.

To allow for any misalignment between the north and south rows, ensure that the L-feet are laid out on the north row as shown below. Using a square edge spanning between the north and south rows, mark out the required locations of the adjacent L-feet onto the south row. This ensures that the each pair of feet will be relatively aligned to each other.

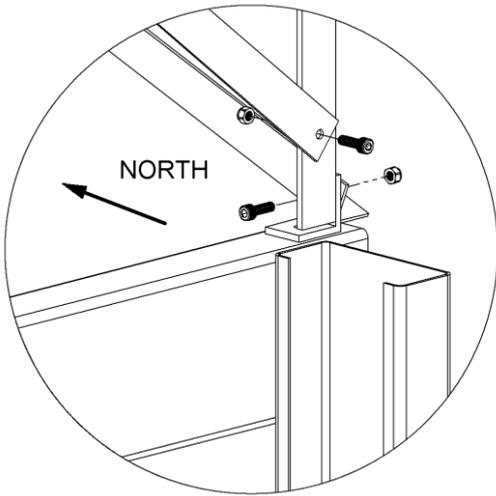


Position of SunLock railing



To ensure that the panels are evenly balanced about the GroundLock frame, position the SunLock railing so that there is 390 mm of overhang from the edge of the rail to the triangular plate.

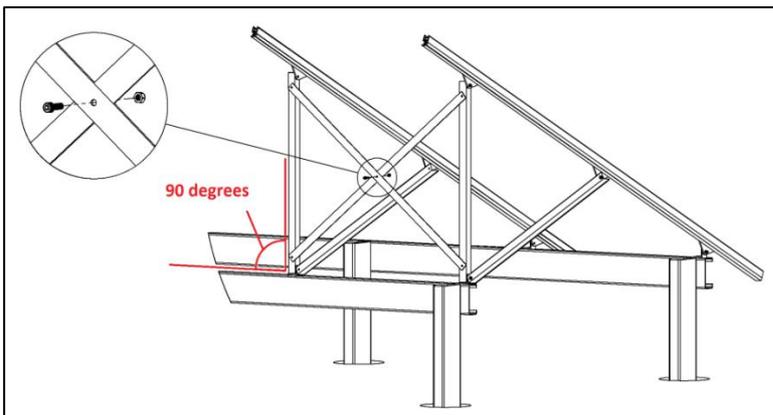
Rear vertical leg angle and orientation



Prior to tightening all fasteners joining the L-feet to the vertical uprights and cross braces, ensure that the orientation of all parts is identical to that shown here.

Using a spirit level, also ensure that the rear vertical leg is positioned directly upright.

Fastening of diagonal bracing straps

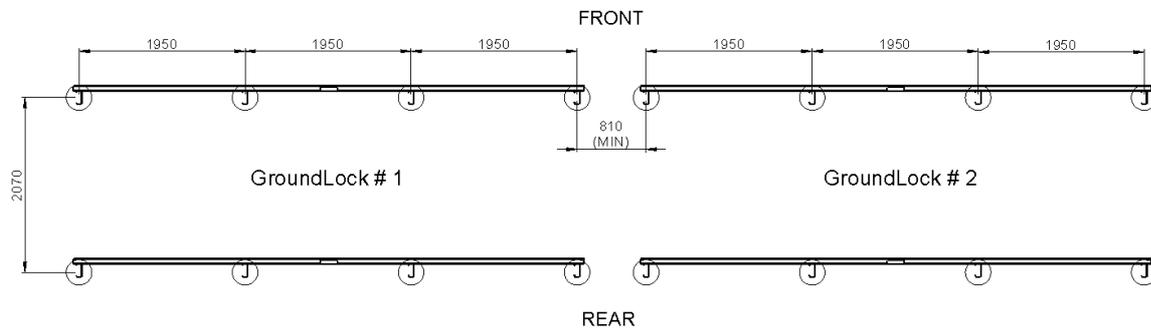


For the diagonal straps to work as intended, an M8 socket head cap screw and nyloc nut should be used to connect the two intersecting straps together. The two straps should be clamped together and drilled prior to fastening. Ensure all vertical uprights are plumb prior to clamping, drilling and securing the diagonal braces to adjacent uprights.

Repeat for all diagonal brace intersections.

Designing a continuous GroundLock array

If required, multiple GroundLock frames can be installed side by side to form one continuous array.



To provide a seamless appearance between adjacent panels, the footings need to be laid-out as specified with a minimum of 810 mm between footings.

For larger installations, it is advised that this figure is increased to compensate for any compounding errors in the distances between footings.

FURTHER INFORMATION

For further information contact Apollo Energy on 1300 855 484 or sunlock@apolloenergy.com.au.