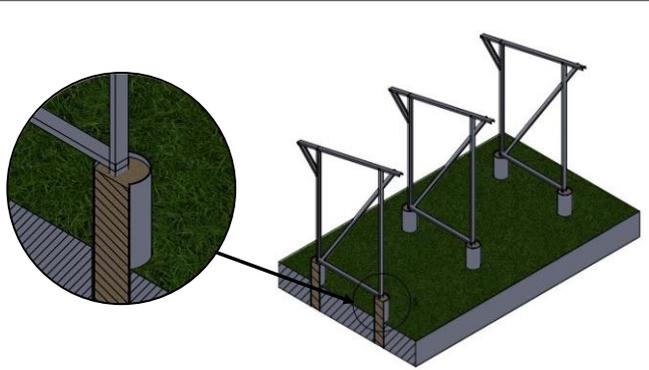
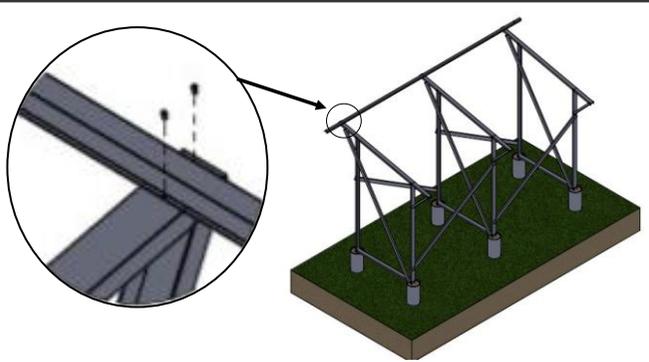


Step 4: Support Section Positioning



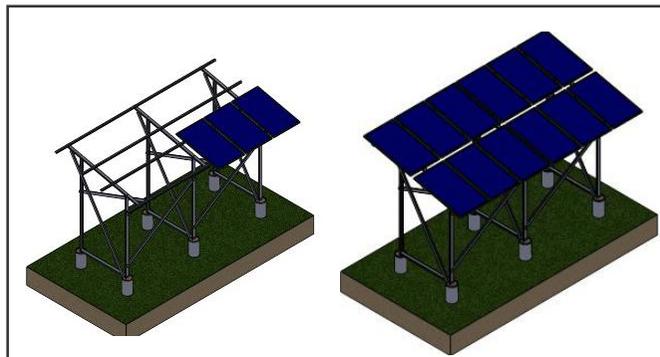
Mount the assembled support structures sections in the embedded sleeves. The Bottom Strut (D) must rest on the sleeve top to ensure levelling and alignment. Then carefully check the verticality, straightness, alignment and consistent levels before backfilling all sleeves with a 1:6 cement:soil mix ensuring that the fill is well compacted.

Step 5: Batten Attachment



Ensure that the top of the Main Bearers (C) are aligned and then attach the lateral module mounting Battens (2) to the Main Bearers (C) using the self-tapping screws provided ensuring that PV module mounting holes align as necessary. The spacing will depend on the module supplied and should be checked from the installation drawing. It is important to provide a spacing of about 70mm between the sides and top/bottoms of each PV Module.

Step 6: PV Module Attachment



Install the PV modules starting from one side of the array, row by row using all 4 bolting positions and the 6mm bolt and nuts provided. Fasten securely.

If a panel mounting jig is to be used confirm the bolt hole dimensions of the PV modules match with provided jig. Then using the jig drill the module bolt holes on the battens ensuring that they align as necessary.

DAYLIFF is a brand of **Davis & Shirliff**

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DAYLIFF

SOLAR PV MODULE SUPPORT STRUCTURES



Installation Guide

Congratulations on selecting Dayliff Solar PV Module Support Structures. They are manufactured to the highest standards and if installed correctly will give many years of efficient and trouble free service. Careful reading of this Installation Manual is therefore important, though should there be any queries they should be referred to the equipment supplier.

1 INTRODUCTION

Dayliff PV Module Support Structures are specially designed for use with all solar installations that are powered by PV modules. They are strong and easy to install with each structure designed to carry up to two parallel mounted strings of modules of up to 350W size. By carefully following these simple installation instructions a long lasting and safe installation will result.

The structures are manufactured from light galvanized high tensile steel sections which are secured by self-drilling, self-tapping screws that need no paint finish. They are designed for erection in soil/cement mix footings contained in the supplied 200mm footing sleeves that firmly anchor the support feet in the ground.

Tools Required

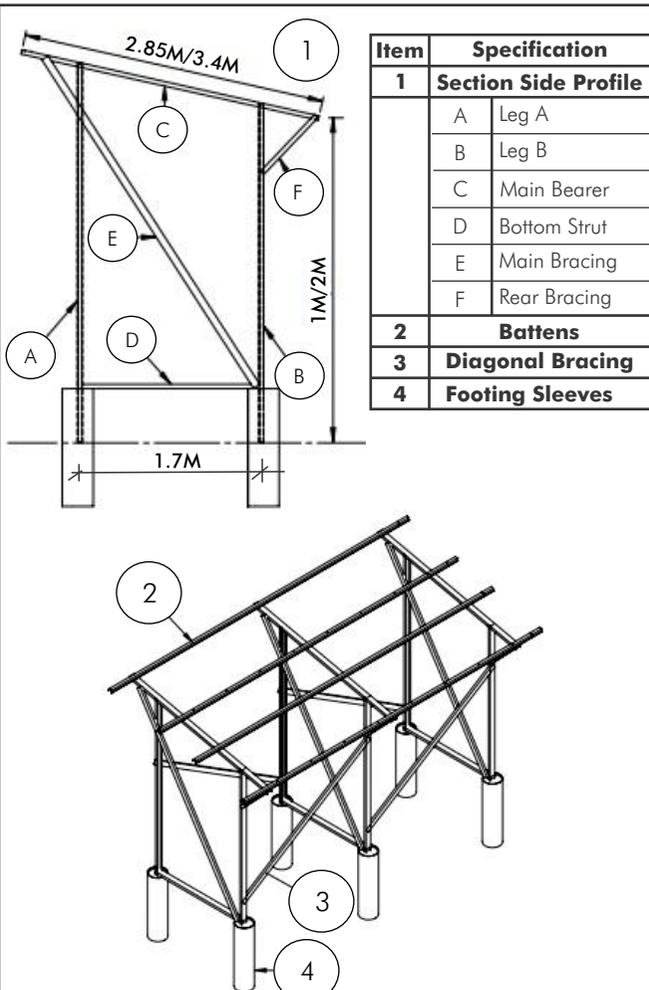
		
Battery Operated Drill	Hex Head Socket Bit: 8&10mm	Spanner: 8&10mm
		
Tape Measure: 3m	Alignment Rope	Levelling Hose

2 DESIGN

Layout Drawing

A general layout drawing is provided for every system before delivery. The drawings show the array measurements and the position of every component. This should be the basis of the structure assembly.

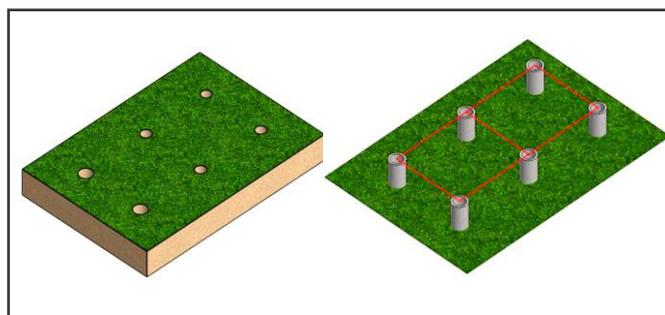
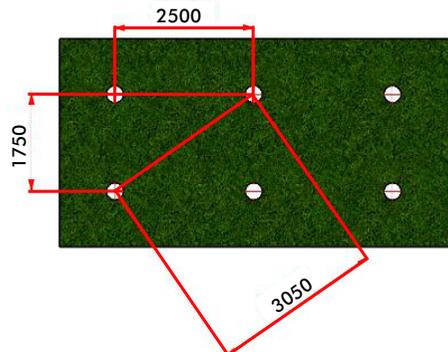
System Overview and Components



Item	Specification
1	Section Side Profile
A	Leg A
B	Leg B
C	Main Bearer
D	Bottom Strut
E	Main Bracing
F	Rear Bracing
2	Battens
3	Diagonal Bracing
4	Footing Sleeves

3 INSTALLATION

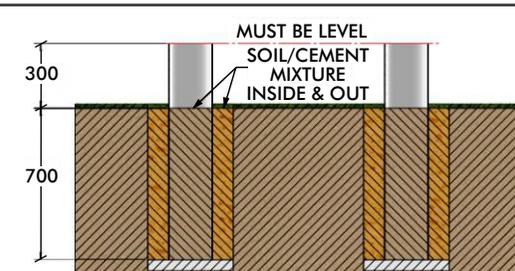
Step 1: Sleeve Positioning

Based on the layout drawing, confirm total number and spacing between legs and excavate holes approx. 600 (diameter) x800mm for each sleeve.

Then place the Footing Sleeves (4) into the holes ensuring they are leveled at the top and have the correct spacing as detailed in the installation drawing supplied.

Step 2: Sleeve Backfill



Backfill around the Footing Sleeves (4) using a light and well-watered soil/cement mix leaving approx. 30cms of the sleeve above ground. Ensure that the fill is well compacted and that the sleeves are vertical, aligned and levelled.

Step 3: Support Section Assembly



Assemble the individual support structure sections as per the drawing. The sections are delivered in pieces according to the structure design with the members loose. Secure all joints firmly on both sides with the self-drilling screws provided using an electric drill with appropriate screw bit.