

25 August, 2020  
Reference: 2831.20

Oz Power Products Pty Ltd  
11 Progress Circuit  
**PRESTONS NSW 2170**

Dear Sirs

### MAXPOWER SOLAR RAIL

As requested we have calculated the Maximum Fixing Spacing's for MaxPower Solar Rail as outlined in the attached Tables.

The tables have been calculated for Australian conditions based on the following criteria:-

- Wind Loads are in accordance with AS Code 1170.2:2011.
- Wind average recurrence interval of 500 years.
- Wind Terrain Categories 2 & 3.
- Shielding and topographic multipliers, Ms and Mt taken as unity.
- Racks mounted on roofs of enclosed buildings of nominal rectangular shape.
- Maximum solar panel length of 2,000 mm.
- Maximum solar panel width of 1,055 mm.
- Minimum of 2 rails per panel.
- Maximum panel weight of 15 kilograms per square metre.
- Roof structure to be checked and certified as suitable for applied rack loads prior to installation.
- Solar panels to be certified by Manufacturer as able to resist wind loads in accordance with AS Code 1170.2:2011.

In Northern Territory solar panels shall not be mounted closer to the edge of the roof than the lesser of  $0.2*b$ ,  $0.2*d$  or  $h$  where  $b$  is width of building,  $d$  length of building and  $h$  height of building with an absolute minimum of 1,200.

I certify that that installations in accordance with these attached Tables will be structurally sufficient for Australian conditions provided the above conditions are adhered to.

Yours faithfully,



**Don Moore** FIE Aust. FStructE. CPEng. NER.  
Registered Building Practitioner No. EC-1106