

Address: 1/80 Oakleigh Road, Carnegie, 3163

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Contact Number: +61 432562065

Date: 08/08/ 2022

## Structural certificate

This is to certify that Aluminium Design & Service has examined the updated rail components specified in EzQuick Model 2012 Installation Manual V1022, and found it satisfactory to AS1664.1, AS1170.1 and AS/NZ 1170.2(2021)

Specifications for roof supports (ie. tile roof, flat roof, tin roof) remain the same to the Manual V1012, which were engineered and certified by BSC Consulting Engineering.

Engineer: *Chenchen Yang*

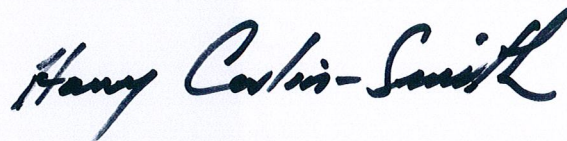
BSc (civil), MSc (civil), RBP, EC- 60277

December 20, 2012

### **STRUCTURAL CERTIFICATE**

This is to certify that BSC has examined the components and procedures specified in the EzQuik Model 2012 Installation Manual V1011 printed in October 2012.

In particular the tile bracket, steel roof bracket, tilt bracket and KlipLok clamps have been assessed and are now certified.



Harry Carlin-Smith FIEAust CPEng  
Managing Director

December 6, 2011

### STRUCTURAL CERTIFICATE

This is to certify that BSC has examined the component and procedures specified in the EzQuick Model 2012 Installation Manual V1011 and found them structurally adequate with the following proviso:

The spacing of the Tile Hook shall be as follows with the number of hooks per side in brackets:

Roof Height (m)	Region A mm	Region B mm	Region C mm	Region D mm
5	2135 (2)	1050 (4)	720 (5)	500 (7)
10	1340 (3)	980 (4)	700 (5)	500 (7)
15	1300 (3)	920 (4)	680 (5)	500 (7)

Also the Klip Lok Clamp is excluded from this certification at this time.



Harry Carlin-Smith  
Managing Director

February 6, 2013

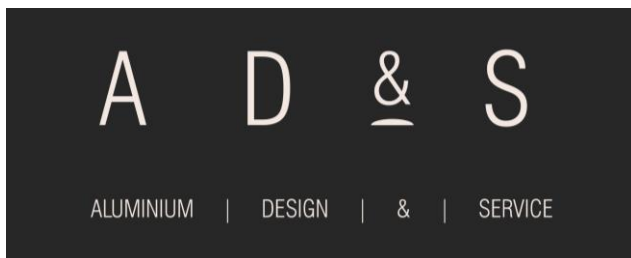
### STRUCTURAL CERTIFICATE

This is to certify that BSC has examined the components and procedures specified in the EzQuik Model 2012 Installation Manual printed in October 2012 when used to support Canadian Solar panels 1954mm x 982mm x 40mm.

In particular the tile bracket, steel roof bracket, tile bracket and KlipLok clamps have been assessed and are herewith certified.



Harry Carlin-Smith FIEAust CPEng  
Managing Director



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Date: 08/Aug/2022

## Structural Certificate

This is to certify that the components and installation procedures specified in the EzQuik Model 2012 Installation Manual V1022 for Solar Panels, printed in Aug 2022 are structurally adequate to design wind load by AS1170.2 (2021)

**The following span tables are listed for installation reference of single solar panel with area less than 2.3 m<sup>2</sup>**

- Tile hook spacing on **tile** rooves

Roof height	Region A	Region B	Region C	Region D
5m	2135 mm	1050 mm	720 mm	500 mm
7.5m	1740 mm	980 mm	700 mm	500 mm
10m	1340 mm	980 mm	700 mm	500 mm
15m	1300 mm	920 mm	680mm	500 mm

- Roof anchor for **non-KlipLok** rooves

Roof height	Region A	Region B	Region C	Region D
5m	1280mm	1280mm	720mm	720mm
10m	1200mm	1200mm	700mm	700mm
15m	1100mm	1100mm	650mm	650mm



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**For panel with area less than 2.3 m<sup>2</sup>**

- Clamps for **KlipLok 406** roof

Roof height	Region A	Region B	Region C	Region D
5m	1015 mm	930mm	700mm	500mm
10m	1015 mm	815mm	500mm	500mm
15m	815 mm	700mm	500mm	500mm

- Clamps for **KlipLok 700** and **GRS700** roof

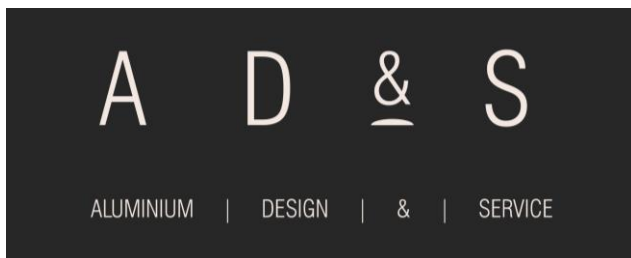
Roof height	Region A	Region B
5m	950 mm	700mm
10m	950 mm	700mm
15m	700 mm	500mm

- Support for flat rooves with **tilt system**

Roof height	Region A	Region B
5m	1280mm	1100mm
10m	1100mm	1000mm
15m	1000mm	880mm

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## Structural Certificate

This is to certify that the components and installation procedures specified in the EzQuik Model 2012 Installation Manual V1022 for Solar Panels, printed in Aug 2022 are structurally adequate to design wind load by AS1170.2 (2021)

The following span tables are listed for installation reference of single solar panel with area larger than 2.3 m<sup>2</sup> but less than 2.7 m<sup>2</sup>

1. Tile hook spacing on **tile** rooves

Roof height	Region A	Region B	Region C	Region D
5m	1710 mm	840 mm	580 mm	400 mm
7.5m	1400 mm	790 mm	560 mm	400 mm
10m	1075 mm	790 mm	560mm	400 mm
15m	1040 mm	740 mm	545 mm	400 mm

2. Roof anchor for **non-KlipLok** rooves

Roof height	Region A	Region B	Region C	Region D
5m	1025mm	1025mm	580mm	580mm
10m	960mm	960mm	560mm	560mm
15m	880mm	880mm	520mm	520mm



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**For panel with area larger than 2.3 m<sup>2</sup> but less than 2.7 m<sup>2</sup>**

3. Clamps for **KlipLok 406** roof

Roof height	Region A	Region B
5m	815mm	745mm
10m	815 mm	650mm
15m	650 mm	490mm

4. Clamps for **KlipLok 700** and **GRS700** roof

Roof height	Region A	Region B
5m	760 mm	560mm
10m	760 mm	560mm
15m	560 mm	400mm

5. Support for flat rooves with **tilt system**

Roof height	Region A	Region B
5m	1025mm	880mm
10m	900mm	850mm
15m	850mm	750mm

Engineer: *Chenchen Yang*

BSc (civil), MSc (civil), RBP, EC- 60277

April 10, 2014

MicroSolar Systems Pty Ltd  
4 Joyce Street  
Springvale 3171

### **STRUCTURAL CERTIFICATION OF PART MSSTKT-Tr TRIANGLE ROOF MOUNT FOR SOLAR PANELS**

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This is to Certify that part MSSTKT-Tr U-shaped arm, 25.5mm x 46mm x 3mm, for triangle roof mount for solar panels manufactured from aluminium alloy 6061-T6, satisfies the wind loading code AS1170.2...2011.

The spacing of supports and minimum number of supports shall be as follows for Wind Code Regions A & B, and C & D.

ROOF HEIGHT	REGION A & B	REGION C & D
5 metres	1500 (3)	720 (5)
10 metres	1400 (3)	700 (5)
15 metres	1100 (4)	620 (5)



Harry Carlin-Smith FIEAust CPEng  
Managing Director