

FENG CONSULTING ENGINEERS

- CIVIL AND STRUCTURAL CONSULTING ENGINEERING

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11019 - Cert.01A

Product For: Samil Power Australia Pty Ltd
Unit 5, No.2 Railway Pde., Lidcombe 2141

Product Name: Photovoltaic Mounting System

Design Version: Version 2011 - For Tile & Tin Roof

Date: 25 May 2011

Our Ref.: 11019

Structural adequacy and Design Certification

This is to confirm that a structural adequacy assessment to the **PV Mounting System** – roof solar panels supplied by **Samil Power Australia Pty Ltd** had been carried out for both sheet metal roofs and tiled roofs for all the speed locations of the gusts of wind: A, B, C, D indicated in Australian Standard AS1170.2.

It is to certify that the **PV Mounting System** supplied by **Samil Power Australia Pty Ltd** had been designed in accordance with general engineering practice and relevant Australian Standard:

- 1) **AS1170.1-2002: Structural design actions – permanent, imposed and other actions**
- 2) **AS1170.2-2002: Structural design actions – wind loads**

Rail material and section property specifications:

- 1) **Material grade: Aluminium 6063-T6**
- 2) **Section properties: refer drawing No. 318-71002-00, Rev 00, (dated: 03/22/2011) by Samil Power Australia Pty Ltd**

General installation requirements:

- 3) **Maximum fixing space to *Rail* for tile/tin roof: 1.2m;**
- 4) **The maximum end cantilevering of fixing point at *Rail* to solar panel shall not be over 0.5m.**
- 5) **The maximum *Rail* parallel spacing shall be less than 1.6m**
- 6) **The maximum solar panel length shall not be over: 2.m**
- 7) **Maximum installation height: 20m or complying with BCA requirement.**


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