

Roof Structural Suitability Report

Job Details

Reference		Date:
5023718		16/04/2023

Surveyor Information

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Client Information

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1. Module Data

Manufacturer	Evolution
Model No.	Titan 445W
Output WP	445W

	Length	x	Width	=	Area	
Size	1.90m		1.10m		2.08	m ²

2. Array Data

Module Weight	22	x	No of modules	13	=	283.4	Kg Modules A
Hook Weight	0.80	x	No of Hooks	26	=	20.8	Kg Roof Hook
Rail Weight	1.00	x	M length	39	=	39	Kg Rail
						343.20	Weight Overall kg
							Divide by
Module Area	2.08	x	No of Modules	13	=	27.06	m ² Overall Area
						12.68	Weight per m ²
						124.43	Convert to Newton's (x 9.81)
						167.99	Multiply by safety factor x 1.35
							N per m ² Imposed Load

Mounting System Manufacturer	Xiamen Fasten Solar	Model	Double Adjustable
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Load Per Roof Anchor (weight at A / no of hooks)	0.129KN
Manufacturer Maximum per Anchor	0.92N

Acceptable
Yes / No

Notes:

Design Load of Trusses

785N

(785 Current Standard)

Roof Covering Type	Weight N/m ²	
Concrete	450	N/m ²
Slate	340	N/m ²
Rosemary	530	N/m ²
Flat Block	7000	N/m ²
Metal	450	N/m ²
20Deg Tub	0	N/m ²
Felt Pod	340	N/m ²
Gse	0	N/m ²
Other		N/m ²

M depth

N/m²

Snow Depth

0.25

=

70N

(1m=280N)

Load Left for PV Array

No bracket type selected in quote

N/m²

PV Array Weight per m²

167.99

Acceptable

Yes

No