



innovation in design and construction

Gamcorp (Melbourne) Pty Ltd A.C.N 141 076 904 A.B.N 73 015 060 240 www.gamcorp.com.au melbourne@gamcorp.com.au

Suite 4, 346 Ferntree Gully Rd, Notting Hill VIC 3168 Tel: 03 9543 2211 Fax: 03 9543 4046

Our Ref: 1850

3 September 2015

Xiamen Antai New Energy Tech. Co., Ltd. Room 402, No.21 Wanghai Road, Software Park II Siming District, Xiamen, China 361008

Array Frame Engineering Certificate

Installation of flush mounted solar array frame on Tile Roof

Gamcorp (Melbourne) Pty Ltd, being Structural Engineers within the meaning of Australian Building Regulations, have carried out a structural design check of the Xiamen Antai New Energy Tech. Co., Ltd. solar flush mount frame for the use within Australia. The design check has been based on the information provided by Xiamen Antai New Energy Tech. Co., Ltd.

We find the Installation of flush mounted solar array frame on tile roof to be structurally sufficient for Australian use based on the following conditions:

- Wind Loads to AS/NZ1170.2:2011 Admt 3-2012
- Wind Region A, B, C, D
- Wind Terrain Category 2 & 3
- Wind average recurrence interval of 100 years region A and B
- Wind average recurrence interval of 500 years region C and D
- · Maximum Building height 20 m
- Timber with Joint Type classification J5 and J6 are excluded unless tested for Screw capacity
- PV panels to be installed flat on the roof
- Max. Solar Panel Dimensions 2000×1000
- Regional Wind speed:

Regional Wind speed	4.1			
Wind Zone	Α	В	С	D
Wind Speed (m/s)	41	48	69	88

Refer to attached summary table for interface spacing.

Construction is to be carried out strictly in accordance with the manufacturers instructions. This work was designed in accordance with the provisions of Australian Building Regulations and in accordance with sound, widely accepted engineering principles.

Yours faithfully, Gamcorp (Melbourne) Pty Ltd

Martin Gamble
Managing Director
MAICD

Milan Bjelobrk MIEAust, CPEng, NPER 2210984, RPEQ 12090, RBP EC-38461, NT BPB 139671ES

Page 1 of 1 ISO 9001:2008 Registered Firm Certificate No: AU1222



Gamcorp (Melbourne) Pty Ltd Consulting Structural & Civil Engineers A.C.N 141 076 904 A.B.N 73 015 060 240

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Structural Design Documentation

Solar Roof Interface Spacing Table According to AS/NZS 1170.2-2011 Amdt 3-2012 Within Australia Terrain Category 2

For: Xiamen Antai New Energy Tech. Co., Ltd.



Job Number: 1850 Date: September 3, 2015

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ISO 9001:2008 Regist Certificate No

Job No: 1850

Client: Xiamen Antai New Energy Tech. Co., Ltd.

Project: Solar Roof Interface Spacing Table

Address: Within Australia

Australian Standards

AS 1170. 2011 - Structural Design Actions

Part 0 – General Principles

Part 1 – Permanent imposed and other actions

Part 2 - Wind Actions

AS 1664.1 – Aluminium structures - Limit state design

Wind Terrain Category: WTC 2

Designed: B.C

Date: Sep-15



Client: Xiamen Antai New Energy Tech. Co., Ltd. Job: 1850
Project: Solar Array Interface Spacing Table Date: Sep-15

Address: Within Australia

Designed: **B.C**

Solar Array Interface spacing Table for Tile Roof

Type of Rail Rail II
Type of Interface ATL-FWNY-05
Solar Panel Dimension 2mx1m
Terrain category 2

Roof Angle (Φ) – Φ < 5°

	Rooi Aligie (Ψ) =		$\Psi \setminus J$									
Wind		Building Height – H (m)										
Region		H:	≤10		10<	H≤15		15<ŀ	1≤20			
		D.W & U.W	Middle		D.W & U.W	Middle		D.W & U.W	Middle			
Α		794	978		716	881		674	829			
В		569	698		514	630		485	594			
С		266	325		241	294		228	278			
D	-	168	204		152	185		143	175			

Roof Angle (Φ) – $5^{\circ} \le \Phi \le 30$

	Roof Aligic (4)		<u>σ </u>	50				
Wind			Buildin	g Height – H (m)			
Region		H	≤10	10<	<h≤15< th=""><th>15<l< th=""><th colspan="2"><h≤20< th=""></h≤20<></th></l<></th></h≤15<>	15 <l< th=""><th colspan="2"><h≤20< th=""></h≤20<></th></l<>	<h≤20< th=""></h≤20<>	
		D.W & U.W	Middle	D.W & U.W	Middle	D.W & U.W	Middle	
Α	_	794	1158	716	1040	674	979	
В		569	823	514	741	485	698	
С		266	381	241	344	228	325	
D		168	239	152	216	143	204	



Client:Xiamen Antai New Energy Tech. Co., Ltd.Job: 1850Project:Solar Array Interface Spacing TableDate: Sep-15

Address: Within Australia

Designed: **B.C**

Solar Array Interface spacing Table for Tile Roof

Type of Rail Rail III
Type of Interface ATL-FWNY-05
Solar Panel Dimension 2mx1m
Terrain category 2

Roof Angle (Φ) – Φ < 5°

	Roof Aligic (4)		Ψ \ J					
Wind			Buildir	ng Height	- H (m)		
Region		Ξ	≤10		10<	:H≤15	15<ŀ	H≤20
		D.W & U.W	Middle		D.W & U.W	Middle	D.W & U.W	Middle
A	-	794	978		716	881	674	829
В	-	569	698		514	630	485	594
С	-	266	325		241	294	228	278
D	-	168	204		152	185	143	175

	Roof Angle (Φ) -		5°≤Φ ≤	30			
Wind			Buildin	g Height – F	l (m)		
Region		H:	≤10	1	0 <h≤15< th=""><th>15<</th><th>H≤20</th></h≤15<>	15<	H≤20
		D.W & U.W	Middle	D.W U.W		D.W & U.W	Middle
Α	-	794	1158	71	6 1040	674	979
В		569	823	51	4 741	485	698
С		266	381	24	1 344	228	325
D		168	239	15	2 216	143	204



Client:Xiamen Antai New Energy Tech. Co., Ltd.Job: 1850Project:Solar Array Interface Spacing TableDate: Sep-15

Address: Within Australia

Designed: **B.C**

Solar Array Interface spacing Table for Tile Roof

Type of Rail Rail IV
Type of Interface ATL-FWNY-05
Solar Panel Dimension 2mx1m

Terrain category 2

Roof Angle (Φ) – Φ < 5°

	110017111910 (+)							
Wind			Buildin	ig Height	- H (m)		
Region		H≤10 10<				:H≤15	15 <h≤20< th=""></h≤20<>	
		D.W & J.W	Middle		D.W & U.W	Middle	D.W & U.W	Middle
A		794	978		716	881	674	829
В		569	698		514	630	485	594
С		266	325		241	294	228	278
D		168	204		152	185	143	175

Roof Angle (Φ) – $5^{\circ} \leq \Phi \leq 30$

				-				
Wind			Buildin	g Height	– H (m)		
Region		H:	≤10		10<	:H≤15	15<	H≤20
		D.W & U.W	Middle		D.W & J.W	Middle	D.W & U.W	Middle
Α		794	1158		716	1040	674	979
В	-	569	823		514	741	485	698
С		266	381		241	344	228	325
D		168	239		152	216	143	204



Client: Xiamen Antai New Energy Tech. Co., Ltd.
Project: Solar Array Interface Spacing Table
Within Australia
Designed: B.C

Designed			
	General Notes		
Note 1	All holes must be	pre drilled, with minir	num screw embedment of 38 mm into timber.
Note 2	The width of tim per tile hook	ber purlins shall not be	e less than 38mm. Use minimum of two screws
Note 3	Recommended so	TOWC	
Note 3	Wood purlins a		ers to use
	Pine and Hardwood embedment and	od (38mm	TPI (6.3 x 65 mm long)
Note 4	Roof Tile Hook m	ust be fixed with minir	num of three 14g 10 TPI
Note 5	Following compor	nents are satisfied to u	se according to AS1170.2011
	Components	Part Number	Description
	L foot	ATL-TYN-hook01	Tile Hook Roof Interface
	Inter Clamp	ATL-FWNY-09	Internal fixing between rail and solar panel
	End Clamp	ALT-TYN-14	End fixing between rail and solar panel
	Splice	ATL-TYN-21	Rail Connection
	Antai Rail II	ATL-TYN-28	Aluminium Rail (AL6005-T5)
	T Module	ATL-TYN-29	Rail to bolt connector
	Antai Rail III	ATL-TYN-53	Aluminium Rail (AL6005-T5)
	Antai Rail IV	CG-010	Aluminium Rail (AL6005-T5)
Note 7			ne fifth of the length of the interface spacing. entre of spacing or over the rail support.
		∠ RAIL	Rail Joiner
			Roof Interface (Tin/Tile)
	Δ	Δ	
	_	L /5	
		L	
Note 8		of Downwind, Upwind ure D9 from AS/NZS 1	end and middle, 170.2-2011 Amdt 2-2012.
Note 9	Figure 1: Shows	ocation of the Upwind	/Central & Downwind end.
	Flush mounted arr.	CLUSION — 600	S A
	2	93	AVERNO CONTRACTOR OF THE PART

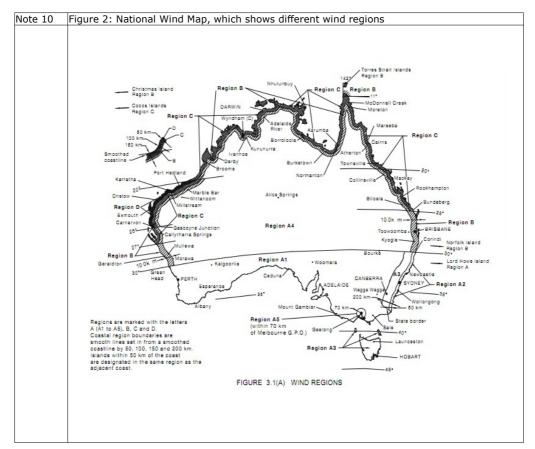
Job: **1850** Date: **Sep-15**



Client: Xiamen Antai New Energy Tech. Co., Ltd.
Project: Solar Array Interface Spacing Table

Address: Within Australia

Designed: B.C



Job: **1850**

Date: Sep-15



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Solar Roof Interface Spacing Table According to AS/NZS 1170.2-2011 Amdt 3-2012 Within Australia Terrain Category 2

For: Xiamen Antai New Energy Tech. Co., Ltd.



Job Number: 1850 Date: September 3, 2015

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ISO 9001:2008 Regist Certificate No

Job No: 1850

Client: Xiamen Antai New Energy Tech. Co., Ltd.

Project: Solar Roof Interface Spacing Table

Address: Within Australia

Australian Standards

AS 1170. 2011 - Structural Design Actions

Part 0 – General Principles

Part 1 – Permanent imposed and other actions

Part 2 - Wind Actions

AS 1664.1 – Aluminium structures - Limit state design

Wind Terrain Category: WTC3

Designed: B.C

Date: Sep-15



Client: Xiamen Antai New Energy Tech. Co., Ltd. Project: Solar Array Inter Address: Within Australia **Solar Array Interface Spacing Table**

Designed: B.C

Solar Array Interface spacing Table for Tile Roof

Job: **1850**

Date: Sep-15

Type of Rail Rail II Type of Interface ATL-FWNY-05 Solar Panel Dimension 2mx1m Terrain category

Roof Angle (Φ) -Φ < <u>5</u>°

Wind	Building Height – H (m)										
Region		H≤10		10 <h≤15< th=""><th></th><th colspan="2">15<h≤20< th=""></h≤20<></th></h≤15<>			15 <h≤20< th=""></h≤20<>				
	D.W U.W	& Middle	1 1	D.W & U.W	Middle		D.W & U.W	Middle			
А	118	9 1476		1021	1263		907	1120			
В	84	4 1041		728	895		648	796			
С	39	1 478		338	413		302	369			
D	24	5 299		212	259		190	232			

	Roof Angle (Φ) –		5°≤Φ ≤	30									
Wind		Building Height – H (m)											
Region		H:	≤10	10) <h≤15< th=""><th>15<f< th=""><th>l≤20</th></f<></th></h≤15<>	15 <f< th=""><th>l≤20</th></f<>	l≤20						
		D.W & U.W	Middle	D.W U.W	& Middle	D.W & U.W	Middle						
Α	-	1189	1758	102	1 1500	907	1327						
В	-	844	1233	72	3 1058	648	940						
С	-	391	561	33	8 485	302	433						
D	-	245	350	21	2 303	190	271						



Client: Xiamen Antai New Energy Tech. Co., Ltd.

Project: Solar Array Interface Spacing Table

Job: 1850

Date: Sep-15

Address: Within Australia

Designed: B.C

Solar Array Interface spacing Table for Tile Roof

Type of Rail Rail III
Type of Interface ATL-FWNY-05
Solar Panel Dimension 2mx1m
Terrain category 3

Roof Angle (Φ) – Φ < 5°

	<u> </u>										
Wind	Building Height – H (m)										
Region		H≤	≤10		10<	H≤15		15 <h≤20< th=""></h≤20<>			
	D.V U.V	W & W	Middle		D.W & U.W	Middle		D.W & U.W	Middle		
Α	11	L89	1476		1021	1263		907	1120		
В	84	44	1041		728	895		648	796		
С	39	91	478		338	413		302	369		
D	24	45	299		212	259		190	232		

Roof Angle (Φ) – 5° $\leq \Phi \leq 30$

Wind	Building Height – H (m)										
Region		H≤10		10<	H≤15		15 <h< th=""><th>l≤20</th></h<>	l≤20			
	D.W		1	D.W &			D.W &				
	U.W	Middle		U.W	Middle		U.W	Middle			
Α	118	9 1758		1021	1500		907	1327			
В	844	1 1233		728	1058		648	940			
С	39:	L 561		338	485		302	433			
		302			135			1.50			
D	24!	350		212	303		190	271			
	24.	, 330		212	503		190	2/1			



Client: Xiamen Antai New Energy Tech. Co., Ltd.
Project: Solar Array Interface Spacing Table

Address: Within Australia

Designed: B.C

Solar Array Interface spacing Table for Tile Roof

Job: **1850**

Date: Sep-15

Type of Rail Rail IV
Type of Interface ATL-FWNY-05
Solar Panel Dimension 2mx1m

Terrain category 3

Roof Angle (Φ) – Φ < 5°

	Rooi Aligic (Ψ)		$\Psi \setminus J$					
Wind			Buildir	ng Height	- H (ı	n)		
Region		H:	≤10		10<	H≤15	15 <f< th=""><th>l≤20</th></f<>	l≤20
		D.W & U.W	Middle		D.W & U.W	Middle	 D.W & U.W	Middle
А		1189	1476		1021	1263	907	1120
В		844	1041		728	895	648	796
С	-	391	478		338	413	302	369
D	-	245	299		212	259	190	232

Roof Angle (Φ) - $5^{\circ} \le \Phi \le 30$

Wind		Buildir	ig Height	– H (ı	m)		
Region	H:	≤10		10<	H≤15	15 <f< th=""><th>l≤20</th></f<>	l≤20
	D.W & U.W	Middle		D.W & U.W	Middle	D.W & U.W	Middle
Α	1189	1596		1021	1500	907	1327
В	844	1233		728	1058	648	940
С	391	561		338	485	302	433
D	245	350		212	303	190	271



Client: Xiamen Antai New Energy Tech. Co., Ltd.
Project: Solar Array Interface Spacing Table
Address: Within Australia Job: **1850** Date: Sep-15

	General Notes								
Note 1		e pre drilled, with	n minin	num screw embedment of 38 mm into timber.					
	r in mores must b	c pre armea, with		55. 517 Childean Sir 57 50 min into timber					
	The width of Tir	nher nurling chal	I not be	e less than 38mm. Use minimum of two screws					
Note 2	The width of Timber purlins shall not be less than 38mm. Use minimum of two screws per tile hook								
	per tile Hook								
Note 3	Recommended s	Crows							
NOTE 2			Eactor	nnare to use					
	Wood purlins and Rafter Pine and Hardwood (38mm		rasten	steners to use					
			14g 10	10 TPI (6.3 x 65 mm long)					
	embedment and	above)							
	D (=1 11 1			CH 44 40 TPT					
Note 4	Roof Tile Hook n	nust be fixed with	n minin	num of three 14g 10 TPI .					
Note 5				se according to AS1170.2011					
	Components	Part Number		Description					
	L foot	ATL-TYN-ho	ok01	Tile hook Roof interface					
	Inter Clamp	ATL-FWNY	′_no _	Internal fiving between rail and color panel					
	Inter Clamp	AIL-FVVIVY	-03	Internal fixing between rail and solar panel					
	End Clamp	ALT-TYN-	14	End fixing between rail and solar Panel					
	Splice	ATL-TYN-	21	Rail Connection					
	Antai Rail II	ATL-TYN-		Aluminium Rail (AL6005-T5)					
	T Module	ATL-TYN-		Rail to bolt connector					
	Antai Rail III	ATL-TYN-		Aluminium Rail (AL6005-T5)					
	Antai Rail IV	CG-010		Aluminium Rail (AL6005-T5)					
Note 6									
Note 6									
	Terrain category	3(TC3) refers to	nume	rous closely spaced obstructions having heights					
				le suburban housing or light industrial estates.					
	generally from 3	ill to 10 ill. For	examp	ie suburban nousino oi noni muusinaresiales.					
			•						
N-4- 7	Dail lainen ann	- ationat							
Note 7				ne fifth of the length of the interface spacing.					
Note 7									
Note 7				ne fifth of the length of the interface spacing. entre of spacing or over the rail support.					
Note 7				ne fifth of the length of the interface spacing. Entre of spacing or over the rail support.					
Note 7	No rail joiner sh	ould be placed at	the ce	ne fifth of the length of the interface spacing. entre of spacing or over the rail support.					
Note 7		ould be placed at	the ce	ne fifth of the length of the interface spacing. In the interface spacing or over the rail support. Rail Joiner Roof Interface					
Note 7	No rail joiner sh	ould be placed at	the ce	ne fifth of the length of the interface spacing. In the interface spacing or over the rail support. Rail Joiner Roof Interface					
Note 7	No rail joiner sh	ould be placed at	the ce	ne fifth of the length of the interface spacing. In the interface spacing or over the rail support. Rail Joiner Roof Interface					
Note 7	No rail joiner sh	RAIL	the ce	ne fifth of the length of the interface spacing. Entre of spacing or over the rail support. Rail Joiner Roof Interface (Tin/Tile)					
Note 7	No rail joiner sh	RAIL	the ce	ne fifth of the length of the interface spacing. Entre of spacing or over the rail support. Rail Joiner Roof Interface (Tin/Tile)					
Note 7	No rail joiner sh	RAIL	the ce	ne fifth of the length of the interface spacing. Entre of spacing or over the rail support. Rail Joiner Roof Interface (Tin/Tile)					
	No rail joiner sho	RAIL L n of Downwind, L	The ce	ne fifth of the length of the interface spacing. Entre of spacing or over the rail support. Rail Joiner Roof Interface (Tin/Tile)					
	No rail joiner sho	RAIL L n of Downwind, L	The ce	ne fifth of the length of the interface spacing. Entre of spacing or over the rail support. Rail Joiner Roof Interface (Tin/Tile) L end and middle,					
	No rail joiner sho	RAIL RAIL L n of Downwind, L gure D9 from AS	Jpwind /NZS 1	Rail Joiner Rail Joiner Roof Interface (Tin/Tile) Roof and middle, 170.2-2011 Amdt 2-2012.					
Note 8	No rail joiner sho	RAIL RAIL L n of Downwind, L gure D9 from AS	Jpwind /NZS 1	ne fifth of the length of the interface spacing. Entre of spacing or over the rail support. Rail Joiner Roof Interface (Tin/Tile)					
Note 8	For the definition refer attached fi	RAIL Tof Downwind, Logure D9 from AS,	Jpwind /NZS 1	Rail Joiner Rail Joiner Roof Interface (Tin/Tile) Roof and middle, 170.2-2011 Amdt 2-2012.					
Note 8	No rail joiner sho	RAIL Tof Downwind, Logure D9 from AS,	Jpwind /NZS 1	Rail Joiner Rail Joiner Roof Interface (Tin/Tile) Roof and middle, 170.2-2011 Amdt 2-2012.					
Note 8	For the definition refer attached fine Figure 1: Shows	RAIL RAIL n of Downwind, L gure D9 from AS, location of the L	Jpwind /NZS 1	entre of spacing or over the rail support. Rail Joiner Roof Interface (Tin/Tile) end and middle, 170.2-2011 Amdt 2-2012.					
Note 8	For the definition refer attached fine Figure 1: Shows	RAIL The of Downwind, Legure D9 from AS, location of the Legus	Jpwind/	Refifth of the length of the interface spacing. Rail Joiner Roof Interface (Tin/Tile) end and middle, 170.2-2011 Amdt 2-2012.					
Note 8	For the definition refer attached fine Figure 1: Shows	RAIL The of Downwind, Legure D9 from AS, location of the Legus	Jpwind/	Refifth of the length of the interface spacing. Pentre of spacing or over the rail support. Real Joiner Roof Interface (Tin/Tile) end and middle, 170.2-2011 Amdt 2-2012. Central & Downwind end.					
Note 8	For the definition refer attached fine Figure 1: Shows	RAIL The of Downwind, Legure D9 from AS, location of the Legus Course C	Jpwind/NZS 1	Refifth of the length of the interface spacing. Rail Joiner Roof Interface (Tin/Tile) end and middle, 170.2-2011 Amdt 2-2012.					
Note 8	For the definition refer attached fine Figure 1: Shows	RAIL In of Downwind, Legure D9 from AS, location of the Legure D9 from AS,	Jpwind/NZS 1	Refifth of the length of the interface spacing. Rail Joiner Roof Interface (Tin/Tile) end and middle, 170.2-2011 Amdt 2-2012.					
Note 8	For the definition refer attached fine Figure 1: Shows	RAIL L n of Downwind, L gure D9 from AS, location of the L ays:	Jpwind/NZS 1	Refifth of the length of the interface spacing. Rail Joiner Roof Interface (Tin/Tile) end and middle, 170.2-2011 Amdt 2-2012.					
Note 8	For the definition refer attached fine Figure 1: Shows	RAIL In of Downwind, Legure D9 from AS, location of the Legure D9 from AS,	Jpwind/NZS 1	Refifth of the length of the interface spacing. Rail Joiner Roof Interface (Tin/Tile) end and middle, 170.2-2011 Amdt 2-2012.					
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Note 8	For the definition refer attached fine Figure 1: Shows	RAIL L n of Downwind, L gure D9 from AS, location of the L ays:	Jpwind/NZS 1	Refifth of the length of the interface spacing. Rail Joiner Roof Interface (Tin/Tile) Rend and middle, 170.2-2011 Amdt 2-2012. Central & Downwind end.					
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Note 8	For the definition refer attached fine Figure 1: Shows	RAIL L n of Downwind, L gure D9 from AS, location of the L ays:	Jpwind/NZS 1	Refifth of the length of the interface spacing. Rail Joiner Roof Interface (Tin/Tile) Rend and middle, 170.2-2011 Amdt 2-2012. Central & Downwind end.					



Client: Xiamen Antai New Energy Tech. Co., Ltd.

Job: **1850** Project: **Solar Array Interface Spacing Table** Date: Sep-15

Address: Within Australia

Designed: B.C

