



innovation in design and construction

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Our Ref: 1418

28 November 2014

Chiko Solar Technology Co., Ltd NO.878 Cheng Liu Rd.Jiading District Shanghai, China

Array Frame Engineering Certificate (CK-FT-7R Rail)

Installation of flush mounted solar array frame on tin/tile Roof

Gamcorp (Melbourne) Pty Ltd, being Structural Engineers within the meaning of Australian Building Regulations, have carried out a structural design check of Chiko solar array frame to be installed flat on the roof within Australia. The design check has been based on the information provided by Shanghai Chiko Solar Technology Co., Ltd.

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

- Wind Loads to AS/NZ 1170.2:2011 Admt 3-2012
- Wind Region A, B, C, D
- Wind Terrain Category 2 & 3
- Wind average recurrence interval of 200 years region A and B
- Wind average recurrence interval of 500 years region C and D
- Maximum Building height 20 m
- Maximum solar panel dimensions 1650×992 to be placed in portrait.
- The existing roof construction shall be verified to ensure its suitability to support the solar array frame.
- Each row of solar panels shall have minimum of two rows of railing fixed to the roof framing
- Solar panels to be certified separately
- Timber rafters to support frame to be joint J4, J3, J2 or J1

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



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Structural Design Documentation

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

For:

Chiko Solar





Job Number: 1418 Date: 28 November 2014

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ISO 9001:2008 Regis Certificate N

Job No: 1418

Client: Chiko Solar

Project: SolarRoof 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: WTC2

Terrain category 2 (TC2) refers to open terrain, including grassland, with well-scattered . obstructions having heights generally from 1.5 m to 5 m, with no more than two obstruction per obstructions per hectare

Designed: B.C

Date: Nov-14



Client: Chiko Solar Project: Solar Array Interface Spacing Table
Address: Within Australia

Designed: B.C

Solar Array Interface Spacing Table for Tiled Roof

Job:

1418

Date: Nov-14

Type of Rail CK-FT-7R Type of Interface
Solar Panel Dimension Roof Tile Hook 1650 x 992 Terrain category

Φ < 5° Roof Angle (Φ) -

Wind			Build	ing Heigl	nt – H (n	n)		
Region		H:	≤10		10<	H≤15	15<ŀ	l≤20
	Max wind Speed	D.W & U.W	Central		D.W & U.W	Central	D.W & U.W	Central
Α	43m/s, 154.8 km/h, 96.1 mile/h	794	977		716	880	675	829
В	52 m/s, 190.8 km/h, 118.5 mile/h	533	653		481	589	454	556
С	69.3 m/s, 249 km/h, 154.3 mile/h	295	360		267	325	252	307
D	88.8 m/s, 319.68 km/h, 198.6 mile/h	181	221		164	200	155	189

Roof Angle (Φ) -5°≤Φ ≤ 30

Wind			Build	ing Heigl	nt – H (n	n)		
Region		H:	≤10		10 <l< th=""><th>H≤15</th><th>15<ŀ</th><th>1≤20</th></l<>	H≤15	15<ŀ	1≤20
	Max wind Speed	D.W & U.W	Central		D.W & U.W	Central	D.W & U.W	Central
Α	43m/s, 154.8 km/h, 96.1 mile/h	794	1154		716	1038	675	977
В	52 m/s, 190.8 km/h, 118.5 mile/h	533	768		481	693	454	653
С	69.3 m/s, 249 km/h, 154.3 mile/h	295	421		267	381	252	360
D	88.8 m/s, 319.68 km/h, 198.6 mile/h	181	258		164	234	155	221

Solar Array Interface spacing Table for Tin Roof

Type of Rail CK-FT-7R Type of Interface Tin Roof L Hook Solar Panel Dimension 1650 x 992 Terrain category

Roof Angle (Φ) -Φ < 5°

Wind			Build	ing Heigl	nt – H (n	1)		
Region		H:	≤10		10 <l< th=""><th>H≤15</th><th>15<ŀ</th><th>1≤20</th></l<>	H≤15	15<ŀ	1≤20
	Max wind Speed	D.W & U.W	Central		D.W & U.W	Central	D.W & U.W	Central
Α	43m/s, 154.8 km/h, 96.1 mile/h	952	1170		859	1054	810	993
В	52 m/s, 190.8 km/h, 118.5 mile/h	642	786		580	710	547	669
С	69.3 m/s, 249 km/h, 154.3 mile/h	213	260		193	235	182	222
D	88.8 m/s, 319.68 km/h, 198.6 mile/h	131	160		119	144	112	136

5°≤Φ ≤ 30 Roof Angle (Φ) -

Wind			Build	ing Heigl	nt – H (n	n)		
Region		H:	≤10		10 <l< th=""><th>H≤15</th><th>15<ŀ</th><th>H≤20</th></l<>	H≤15	15<ŀ	H≤20
	Max wind Speed	D.W & U.W	Central		D.W & U.W	Central	D.W & U.W	Central
Α	43m/s, 154.8 km/h, 96.1 mile/h	952	1380		859	1243	810	1170
В	52 m/s, 190.8 km/h, 118.5 mile/h	642	925		580	834	547	786
С	69.3 m/s, 249 km/h, 154.3 mile/h	213	305		193	276	182	260
D	88.8 m/s, 319.68 km/h, 198.6 mile/h	131	187		119	169	112	160



Client: Chiko Solar
Project: Solar Array Interface Spacing Table
Within Australia
Designed: B.C

	General Notes						
Note 1	All holes must be p	re drilled, with n	ninimum	screw emb	edment of 35 mn	n into timber.	
Note 2	The width of Timbe	er purlins shall n	ot be les	s than 35m	ım		
Note 3	Recommended scre	ews					
	Metal Purlins/Ba	ttens	Fasten	ers to use			
	1.2 mm and Above		14g 10	TPI Teks (E	Buildex screws)		
	Wood purlins and	l Rafter	Fasten	ers to use			
	D: 1.11						
	Pine and Hardwood		14g 10	TPI (T17s)	(Buildex screws)		
	embedment and ab	ove)		, ,			
Note 4	Roof Tile Hook mus	t be fixed with n	ninimum	of three 14	4g 10 TPI Teks (B	uildex screws)	
Note 5	E. II				AC1170 2011		
vote 5	Following compone			ccording to			
	Components	Part Number		c -		scription	
	Tile Hook	CK-FTH-		Tile Roof I			
	Tin Roof L Hook	CK-FTH-		Tin Roof I			
	Rail	CK-FT-7		Aluminium			
	Rail Joiner	CK-FT-9		Rail Conne			
	End Clamp	CK-FTE_		Panel to ra			
	Mid Clamp	CK-FTM-	<u>-40</u>	Panel to ra			
	Roof Tile Screw			14g 10 TP	I screws		
Note 6						h well-scattered obstructi truction per obstructions	
Note 7	Rail Joiner connection should be placed at the					ı. No rail joiner	
		RAIL		Rail Joiner		Interface	
					(Tin/T		
	Δ	Δ_			Δ		
	_		L/5				
	L			L			
lote 8	For the definition o	f Downwind, Up	wind end	and middle	 e.		
	refer attached figur				•		
1-1-0	Figure 1. Chaus la			tual 0 David			
Note 9	Figure 1: Shows loo	tation of the Upv	wina/cen	itrai & Dowi	nwina ena.		
	Flush mounted array	s:				_	
	EXCLL	JSION —	600 mm		S		
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		END ZONE	1 >>>	\	I		
		CENTRAL END		THOI IGHT			
		END CENTAN END	B(3)	E HEIGHT			
		END CENTRAL END TONE	813	ERAGE HEIGHT			•
		CHORE CENTRAL TONE	83	AVERAGE HEIGHT			ı
		Find Callabra Con	80	AVERAGE HEIGHT	Panel Must be in	nstalled flat to the roolf	•
		Sold Cettern Cold	83	AVERAGE HEIGHT	Panel Must be in	istalled flat to the roolf	
	2	con central con	83	АУЕНЛОЕ НЕІОНТ	Panel Must be in	stalled flat to the roolf	•
		Canada Ca	100	АУЕНЛОЕ НЕІОНТ	Panel Must be in	istalled flat to the roof	•
	***	End centum tone	80	AVERAGE HEIGHT	Panel Must be in	istalled flat to the roof	•

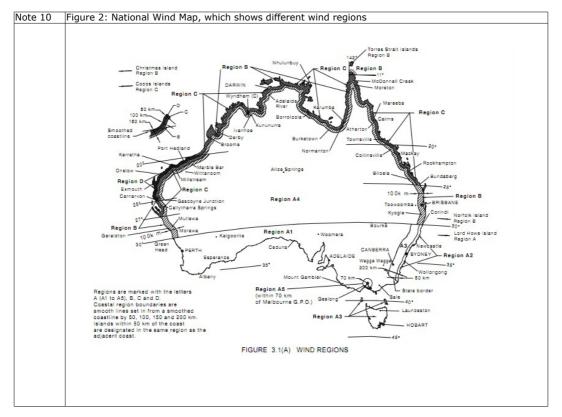
Job: **1418** Date: Nov-14



Client: Chiko Solar Job: 1418 Solar Array Interface Spacing Table Within Australia Project: Date: Nov-14

Address:

Designed: B.C





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Structural Design Documentation

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

For:

Chiko Solar





Job Number: 1418 Date: 28 November 2014

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ISO 9001:2008 Registered Firm Certificate No: AU1222

Job No: 1418

Client: Chiko Solar

Project: SolarRoof Interface Spacing Table

Address: Within Australia

Australian Standards

AS 1170. 2011 - Structural Design Actions

Part 0 - General Principles

innovation in design and construction

Part 1 – Permanent imposed and other actions

Part 2 – Wind Actions

AS 1664.1 – Aluminium structures - Limit state design

Wind Terrain Category: WTC3

Terrain category 3(TC3) refers to numerous closely spaced obstructions having heights generally from 3 m to 10 m. For example suburban housing or light industrial estates.

Designed: B.C

Date: Nov-14



Client: Chiko Solar Project: Address: Solar Array Interface Spacing Table Within Australia

Designed: B.C

Solar Array Interface Spacing Table for Tiled Roof

Job:

1418

Date: Nov-14

Type of Rail CK-FT-7R Type of Interface Solar Panel Dimension Roof Tile Hook 1650 x 992 Terrain category

Φ < 5° Roof Angle (Φ) -

Wind			Build	ing Heigl	nt – H (n	1)		
Region		H:	≤10		10<	H≤15	15<ŀ	l≤20
	Max wind Speed	D.W & U.W	Central		D.W & U.W	Central	D.W & U.W	Central
Α	43m/s, 154.8 km/h, 96.1 mile/h	1185	1468		1019	1258	906	1117
В	52 m/s, 190.8 km/h, 118.5 mile/h	788	969		680	835	606	743
С	69.3 m/s, 249 km/h, 154.3 mile/h	432	529		374	457	335	408
D	88.8 m/s, 319.68 km/h, 198.6 mile/h	265	323		230	280	205	250

Roof Angle (Φ) -5°≤Φ ≤ 30

Wind			Build	ing Heigl	nt – H (n	n)		
Region		H:	≤10		10 <i< th=""><th>H≤15</th><th>15<ŀ</th><th>H≤20</th></i<>	H≤15	15<ŀ	H≤20
	Max wind Speed	D.W & U.W	Central		D.W & U.W	Central	D.W & U.W	Central
Α	43m/s, 154.8 km/h, 96.1 mile/h	1185	1641		1019	1492	906	1321
В	52 m/s, 190.8 km/h, 118.5 mile/h	788	1145		680	984	606	876
С	69.3 m/s, 249 km/h, 154.3 mile/h	432	621		374	537	335	479
D	88.8 m/s, 319.68 km/h, 198.6 mile/h	265	378		230	328	205	293

Solar Array Interface spacing Table for Tin Roof

Type of Rail CK-FT-7R Type of Interface Tin Roof L Hook Solar Panel Dimension 1650 x 992 Terrain category

Roof Angle (Φ) -Φ < 5°

Wind			Build	ing Heigl	nt – H (n	1)		
Region		H:	≤10		10 <l< th=""><th>H≤15</th><th>15<ŀ</th><th>l≤20</th></l<>	H≤15	15<ŀ	l≤20
	Max wind Speed	D.W & U.W	Central		D.W & U.W	Central	D.W & U.W	Central
Α	43m/s, 154.8 km/h, 96.1 mile/h	1270	1380		1219	1441	1085	1336
В	52 m/s, 190.8 km/h, 118.5 mile/h	949	1168		819	1006	730	896
С	69.3 m/s, 249 km/h, 154.3 mile/h	312	382		271	331	242	295
D	88.8 m/s, 319.68 km/h, 198.6 mile/h	191	233		166	202	149	181

Roof Angle (Φ) -5°≤Φ ≤ 30

Wind			Build	ing Heigh	nt – H (n	n)		
Region		H:	≤10		10 <l< th=""><th>H≤15</th><th>15<ŀ</th><th>1≤20</th></l<>	H≤15	15<ŀ	1≤20
	Max wind Speed	D.W & U.W	Central		D.W & U.W	Central	D.W & U.W	Central
Α	43m/s, 154.8 km/h, 96.1 mile/h	1270	1490		1219	1480	1085	1410
В	52 m/s, 190.8 km/h, 118.5 mile/h	949	1379		819	1186	730	1055
С	69.3 m/s, 249 km/h, 154.3 mile/h	312	449		271	388	242	346
D	88.8 m/s, 319.68 km/h, 198.6 mile/h	191	273		166	237	149	212



Client: Chiko Solar
Project: Solar Array Interface Spacing Table
Address: Within Australia

Designed: **B.C**

	General Notes			
Note 1		re drilled, with	minimum	screw embedment of 35 mm into timber.
	'	•		
lote 2	The width of Timb	er purlins shall	not be les	ss than 35mm
	-			
lote 3	Recommended scr		1_	
	Metal Purlins/Ba			ers to use
	1.2 mm and Above			TPI Teks (Buildex screws)
	Wood purlins and	d Rafter	Fasten	ers to use
	Pine and Hardwood	d (35mm		
	embedment and al		14g 10	TPI (T17s) (Buildex screws)
	embeament and a			
Note 4	Roof Tile Hook mu	st be fixed with	minimum	of three 14g 10 TPI Teks (Buildex screws)
lote 5				according to AS1170.2011
	Components	Part Numbe		Description
	Tile Hook	CK-FTH		Tile Roof Interface
	Tin Roof L Hook	CK-FTH-		Tin Roof Interface
	Rail	CK-FT-		Aluminium Rail
	Rail Joiner	CK-FT-	-SK	Rail Connector
	End Clamp	CK-FTE	_40	Panel to rail fixing
	Mid Clamp	CK-FTM	1-40	Panel to rail fixing
	Roof Tile Screw			14g 10 TPI screws
	having heights ger hectare.	nerally from 1.5	m to 5 m	rain, including grassland, with well-scattered obstructions , with no more than two obstruction per obstructions per
	having heights ger hectare.	nerally from 1.5	m to 5 m	he length of the interface spacing. No rail joiner
	having heights ger hectare.	nerally from 1.5	m to 5 m	he length of the interface spacing. No rail joiner
	having heights ger hectare. Rail Joiner connection should be placed at the	n must placed at the centre of spacin	m to 5 m	he length of the interface spacing. No rail joiner the rail support.
	having heights ger hectare.	n must placed at the centre of spacin	m to 5 m	he length of the interface spacing. No rail joiner the rail support. Rail Joiner Roof Interface
	having heights ger hectare. Rail Joiner connection should be placed at the	n must placed at the centre of spacin	ne fifth of the	he length of the interface spacing. No rail joiner the rail support. Rail Joiner Roof Interface
Note 7	Rail Joiner connection should be placed at the	n must placed at the centre of spacin	ne fifth of the	he length of the interface spacing. No rail joiner the rail support. Rail Joiner Roof Interface (Tin/Tile)
lote 7	Rail Joiner connection should be placed at the	n must placed at the centre of spacin	ne fifth of the	he length of the interface spacing. No rail joiner the rail support. Rail Joiner Roof Interface (Tin/Tile)
Note 8	Rail Joiner connection should be placed at the for the definition or refer attached figures.	n must placed at the centre of spacin RAIL Of Downwind, Upre D9 from AS/I	ne fifth of the neg or over the L/5	Rail Joiner Roof Interface (Tin/Tile) Rand middle, 1.2-2011 Amdt 2-2012.
Note 8	Rail Joiner connection should be placed at the for the definition or refer attached figures.	n must placed at the centre of spacin RAIL Of Downwind, Upre D9 from AS/I	ne fifth of the neg or over the L/5	n, with no more than two obstruction per obstructions per the length of the interface spacing. No rail joiner the rail support. Rail Joiner Roof Interface (Tin/Tile) L I and middle,
Note 7	Rail Joiner connection should be placed at the for the definition or refer attached figures.	n must placed at the centre of spacin RAIL Of Downwind, Upre D9 from AS/It cation of the Up	ne fifth of the neg or over th	Rail Joiner Roof Interface (Tin/Tile) I and middle, 0.2-2011 Amdt 2-2012.
Note 7	Rail Joiner connection should be placed at the form the definition or refer attached figure 1: Shows low Flush mounted arrange.	n must placed at the centre of spacin RAIL A of Downwind, Up re D9 from AS/I cation of the Up	ne fifth of the neg or over the L/5	Rail Joiner Roof Interface (Tin/Tile) I and middle, 0.2-2011 Amdt 2-2012. he length of the interface spacing. No rail joiner (Tin/Tile) Roof Interface (Tin/Tile) A continue of the interface spacing. No rail joiner (Tin/Tile) Roof Interface (Tin/Tile)
Note 7	Rail Joiner connection should be placed at the last should be placed at th	n must placed at the centre of spacin RAIL A of Downwind, Up re D9 from AS/I cation of the Up	ne fifth of the neg or over th	Rail Joiner Roof Interface (Tin/Tile) I and middle, 0.2-2011 Amdt 2-2012. he length of the interface spacing. No rail joiner (Tin/Tile) Roof Interface (Tin/Tile) A continuous continuo
Note 7	Rail Joiner connection should be placed at the form the definition or refer attached figure 1: Shows low Flush mounted arrange.	n must placed at the centre of spacin RAIL A of Downwind, Up re D9 from AS/I cation of the Up	ne fifth of the neg or over th	Rail Joiner Roof Interface (Tin/Tile) I and middle, 0.2-2011 Amdt 2-2012. he length of the interface spacing. No rail joiner (Tin/Tile) Roof Interface (Tin/Tile) A continuous continuo
Note 7	Rail Joiner connection should be placed at the form the definition or refer attached figure 1: Shows low Flush mounted arrange.	n must placed at the centre of spacin RAIL Of Downwind, Up re D9 from AS/I cation of the Up	ne fifth of the neg or over th	Rail Joiner Roof Interface (Tin/Tile) I and middle, 0.2-2011 Amdt 2-2012. he length of the interface spacing. No rail joiner (Tin/Tile) Roof Interface (Tin/Tile) A control of the interface spacing. No rail joiner (Tin/Tile) Roof Interface (Tin/Tile)
Note 7	Rail Joiner connection should be placed at the form the definition or refer attached figure 1: Shows low Flush mounted arrange.	n must placed at the centre of spacin RAIL Of Downwind, Up re D9 from AS/I cation of the Up	ne fifth of the neg or over th	Rail Joiner Roof Interface (Tin/Tile) I and middle, 0.2-2011 Amdt 2-2012. he length of the interface spacing. No rail joiner (Tin/Tile) Roof Interface (Tin/Tile) A continuous continuo
Note 7	Rail Joiner connection should be placed at the form the definition or refer attached figure 1: Shows low Flush mounted arrange.	n must placed at the centre of spacin RAIL Of Downwind, Up re D9 from AS/I cation of the Up	ne fifth of the neg or over th	Rail Joiner Roof Interface (Tin/Tile) I and middle, 0.2-2011 Amdt 2-2012. he length of the interface spacing. No rail joiner (Tin/Tile) Roof Interface (Tin/Tile) A continuous continuo
Note 7 Note 8 Note 9	Rail Joiner connection should be placed at the form the definition or refer attached figure 1: Shows low Flush mounted arrange.	n must placed at the centre of spacin RAIL Of Downwind, Up re D9 from AS/I cation of the Up	ne fifth of the neg or over th	Rail Joiner Rail Joiner Roof Interface (Tin/Tile) I and middle, 0.2-2011 Amdt 2-2012. Intral & Downwind end.
Note 7	Rail Joiner connection should be placed at the form the definition or refer attached figure 1: Shows low Flush mounted arrange.	n must placed at the centre of spacin RAIL Of Downwind, Up re D9 from AS/I cation of the Up	ne fifth of the neg or over th	Rail Joiner Roof Interface (Tin/Tile) I and middle, 0.2-2011 Amdt 2-2012. he length of the interface spacing. No rail joiner (Tin/Tile) Roof Interface (Tin/Tile) A control of the interface spacing. No rail joiner (Tin/Tile) Roof Interface (Tin/Tile)
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Note 7	Rail Joiner connection should be placed at the form the definition or refer attached figure 1: Shows low Flush mounted arrange.	n must placed at the centre of spacin RAIL Of Downwind, Up re D9 from AS/I cation of the Up	ne fifth of the neg or over th	Rail Joiner Rail Joiner Roof Interface (Tin/Tile) I and middle, 0.2-2011 Amdt 2-2012. Intral & Downwind end.
Note 7	Rail Joiner connection should be placed at the form the definition or refer attached figure 1: Shows low Flush mounted arrange.	n must placed at the centre of spacin RAIL Of Downwind, Up re D9 from AS/I cation of the Up	ne fifth of the neg or over th	Rail Joiner Rail Joiner Roof Interface (Tin/Tile) I and middle, 0.2-2011 Amdt 2-2012. Intral & Downwind end.

Job: **1418** Date: Nov-14



Client: Chiko Solar Job: 1418 Solar Array Interface Spacing Table Within Australia Project: Date: Nov-14

Address:

Designed: B.C

