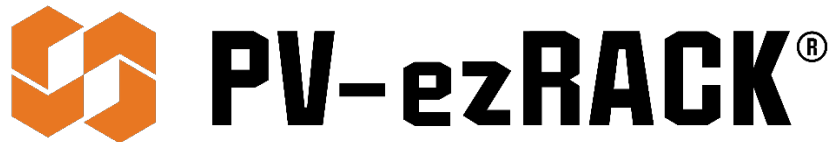


STRUCTURAL DESIGN CERTIFICATION



ComT (Commercial Tilt) Interface Spacing Tables

Standard: AS/NZS 1170.2:2011 | Amendment 4-2016 within Australia

Terrain Category: 2, 2.5 & 3

Client: Clenergy Australia

REF: 00347

Date: APR 2022

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01 April 2022

Clenergy Australia
1/10 Duerdin Street
Clayton, VIC 3168

CERTIFICATION LETTER

Clenergy PV-ezRack Klip-lok Commercial Tilt Certification – TC2, 2.5 and 3 – Wind Region A, B and C.
Internal REF: **00347**. Project REF: **CL-500-S-REV4**.

MW Engineering Melbourne, being Structural Engineers within the meaning of Australian regulations, have calculated the maximum spacings for the PV ez-Rack rail system for the following conditions:

- **Wind Loads to AS 1170.2-2011 AMDT 4-2016**
 - o **Wind Terrain Category 2, 2.5 and 3**
 - o **Wind average recurrence of 200 years**
 - o **Wind Region A, B, and C**
- **Solar panel length up to 2.4 m**

Attached are the tables showing the spacings according to Wind Region, roof pitch, and building height.

The values shown on these tables will be valid unless an amendment is issued on any of the following codes:

- | | |
|--|---------------------------|
| - AS/NZS 1170.0- 2002 AMDT 4-2016 | General Principles |
| - AS/NZS 1170.1- 2002 AMDT 4-2016 | Imposed Loadings |
| - AS/NZS 1170.2- 2011 AMDT 4-2016 | Wind Loadings |
| - AS/NZS 1664.1- 1997 AMDT 1:1999 | Aluminium Code |

Should you have any queries, do not hesitate to contact us.

Best Regards,

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REF: 00347

Client: Clenergy Australia

Internal reference: CL-500-S – REV 4

Project: PV-ezRack Klip-lok commercial tilt interface spacing tables

Australian Standards

AS/NZS 1170.0:2002 (R2016)

AS/NZS 1170.1:2002 (R2016)

AS/NZS 1170.2:2011 (R2016)

AS/NZS 1664.1:1997-Amdt 1:1999

General Principles

Imposed loadings

Wind Loadings

Aluminium

Wind Terrain Category: 2, 2.5 & 3

Wind average recurrence: 500 years

Designed: SM

Date: APR 2022

Disclaimer: From the date of publication onwards, any amendment made to any of the above-mentioned Standards will make this report outdated and a new one will have to be released, unless the amendment has no implications on this certificate.

Contents

LYSAGHT KLIP-LOK 700 CLASSIC 4

LYSAGHT KLIP-LOK 700 HI-STRENGTH 7

LYSAGHT KLIP-LOK 406 10

STRAMIT SPEED DECK ULTRA 13

FIELDERS KINGKLIP 700 16

STRATCO TOPDECK 700 19

LYSAGHT LONGLINE 305 22

METROLL METLOK 700 25

STRAMIT SPEED DECK 500 28

REV-KLIP 700 31

METROLL METLOK 500 34

STEELINE STELL-RIB 500 (ST28) 37

REVOLUTION MAXLINE 340 40

STEELINE LOKDECK 680 43

General Notes 46

PV-ezRack Commercial Tilt interface spacing table for **LYSAGHT KLIP-LOK 700 CLASSIC**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
 Type of Interface ER-I-09 and ER-I-34
 Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.95	1.30	0.98	0.65	1.95	1.30	0.98	0.65	1.85	1.23	0.92	0.62	1.77	1.18	0.88	0.59	1.62	1.08	0.81	0.54	
WRB	1.53	1.02	0.77	0.51	1.53	1.02	0.77	0.51	1.38	0.92	0.69	0.46	1.23	0.82	0.62	0.41	1.08	0.72	0.54	0.36	
WRC	1.02	0.68	0.51	0.34	1.02	0.68	0.51	0.34	0.88	0.59	0.44	0.29	0.68	0.45	0.34	0.23	0.60	0.40	0.30	0.20	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.88	1.25	0.94	0.63	1.81	1.21	0.90	0.60	1.73	1.15	0.86	0.58	1.67	1.11	0.84	0.56	1.55	1.04	0.78	0.52	
WRB	1.45	0.97	0.73	0.48	1.30	0.87	0.65	0.43	1.15	0.76	0.57	0.38	1.05	0.70	0.53	0.35	0.95	0.63	0.47	0.32	
WRC	0.92	0.62	0.46	0.31	0.83	0.55	0.42	0.28	0.74	0.49	0.37	0.25	0.59	0.39	0.29	0.20	0.53	0.35	0.26	0.18	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.82	1.21	0.91	0.61	1.69	1.13	0.84	0.56	1.62	1.08	0.81	0.54	1.59	1.06	0.80	0.53	1.49	0.99	0.75	0.50	
WRB	1.32	0.88	0.66	0.44	1.08	0.72	0.54	0.36	0.97	0.65	0.48	0.32	0.92	0.61	0.46	0.31	0.85	0.56	0.42	0.28	
WRC	0.84	0.56	0.42	0.28	0.69	0.46	0.35	0.23	0.62	0.42	0.31	0.21	0.51	0.34	0.25	0.17	0.47	0.32	0.24	0.16	

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PV-ezRack Commercial Tilt interface spacing table for **LYSAGHT KLIP-LOK 700 CLASSIC (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.62	1.08	0.81	0.54	1.62	1.08	0.81	0.54	1.52	1.01	0.76	0.51	1.34	0.90	0.67	0.45	1.13	0.75	0.57	0.38
WRB	0.95	0.64	0.48	0.32	0.95	0.64	0.48	0.32	0.82	0.55	0.41	0.27	0.73	0.49	0.37	0.24	0.65	0.43	0.32	0.22
WRC	0.62	0.41	0.31	0.21	0.62	0.41	0.31	0.21	0.53	0.35	0.27	0.18	0.41	0.28	0.21	0.14	0.36	0.24	0.18	0.12

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.56	1.04	0.78	0.52	1.42	0.95	0.71	0.47	1.26	0.84	0.63	0.42	1.15	0.77	0.58	0.38	1.00	0.67	0.50	0.33
WRB	0.86	0.57	0.43	0.29	0.78	0.52	0.39	0.26	0.68	0.46	0.34	0.23	0.63	0.42	0.32	0.21	0.57	0.38	0.28	0.19
WRC	0.55	0.37	0.28	0.18	0.50	0.33	0.25	0.17	0.45	0.30	0.22	0.15	0.35	0.24	0.18	0.12	0.32	0.21	0.16	0.11

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.45	0.97	0.72	0.48	1.18	0.78	0.59	0.39	1.06	0.70	0.53	0.35	1.00	0.67	0.50	0.33	0.88	0.59	0.44	0.29
WRB	0.78	0.52	0.39	0.26	0.65	0.43	0.32	0.22	0.58	0.39	0.29	0.19	0.55	0.36	0.27	0.18	0.51	0.34	0.25	0.17
WRC	0.51	0.34	0.25	0.17	0.42	0.28	0.21	0.14	0.38	0.25	0.19	0.13	0.31	0.21	0.16	0.10	0.29	0.19	0.14	0.10

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PV-ezRack Commercial Tilt interface spacing table for **LYSAGHT KLIP-LOK 700 CLASSIC (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.26	0.84	0.63	0.42	1.26	0.84	0.63	0.42	1.08	0.72	0.54	0.36	0.96	0.64	0.48	0.32	0.81	0.54	0.40	0.27
WRB	0.68	0.46	0.34	0.23	0.68	0.46	0.34	0.23	0.59	0.39	0.30	0.20	0.53	0.35	0.27	0.18	0.46	0.31	0.23	0.15
WRC	0.45	0.30	0.22	0.15	0.45	0.30	0.22	0.15	0.38	0.26	0.19	0.13	0.30	0.20	0.15	0.10	0.26	0.17	0.13	0.09

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.13	0.75	0.56	0.38	1.02	0.68	0.51	0.34	0.90	0.60	0.45	0.30	0.82	0.55	0.41	0.27	0.72	0.48	0.36	0.24
WRB	0.62	0.42	0.31	0.21	0.56	0.37	0.28	0.19	0.49	0.33	0.25	0.16	0.45	0.30	0.23	0.15	0.42	0.28	0.21	0.14
WRC	0.40	0.27	0.20	0.13	0.36	0.24	0.18	0.12	0.32	0.22	0.16	0.11	0.26	0.17	0.13	0.09	0.23	0.16	0.12	0.08

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.02	0.68	0.51	0.34	0.84	0.56	0.42	0.28	0.76	0.51	0.38	0.25	0.71	0.47	0.36	0.24	0.64	0.43	0.32	0.21
WRB	0.56	0.37	0.28	0.19	0.46	0.31	0.23	0.15	0.42	0.28	0.21	0.14	0.40	0.27	0.20	0.13	0.37	0.25	0.18	0.12
WRC	0.37	0.25	0.18	0.12	0.30	0.20	0.15	0.10	0.28	0.18	0.14	0.09	0.23	0.15	0.11	0.08	0.21	0.14	0.10	0.07

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PV-ezRack Commercial Tilt interface spacing table for **LYSAGHT KLIP-LOK 700 HI-STRENGTH**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	2.03	1.36	1.02	0.68	2.03	1.36	1.02	0.68	1.93	1.28	0.96	0.64	1.84	1.23	0.92	0.61	1.62	1.08	0.81	0.54
WRB	1.53	1.02	0.77	0.51	1.53	1.02	0.77	0.51	1.45	0.97	0.73	0.48	1.39	0.93	0.70	0.46	1.34	0.89	0.67	0.45
WRC	1.28	0.86	0.64	0.43	1.28	0.86	0.64	0.43	1.11	0.74	0.55	0.37	0.85	0.57	0.43	0.28	0.75	0.50	0.38	0.25

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.96	1.31	0.98	0.65	1.88	1.26	0.94	0.63	1.80	1.20	0.90	0.60	1.74	1.16	0.87	0.58	1.55	1.04	0.78	0.52
WRB	1.48	0.98	0.74	0.49	1.42	0.95	0.71	0.47	1.36	0.91	0.68	0.45	1.32	0.88	0.66	0.44	1.19	0.79	0.60	0.40
WRC	1.16	0.77	0.58	0.39	1.05	0.70	0.52	0.35	0.92	0.62	0.46	0.31	0.73	0.49	0.37	0.24	0.67	0.44	0.33	0.22

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.89	1.26	0.95	0.63	1.76	1.17	0.88	0.59	1.69	1.13	0.85	0.56	1.66	1.11	0.83	0.55	1.49	0.99	0.75	0.50
WRB	1.43	0.95	0.72	0.48	1.34	0.89	0.67	0.45	1.22	0.81	0.61	0.41	1.15	0.76	0.57	0.38	1.06	0.71	0.53	0.35
WRC	1.05	0.70	0.53	0.35	0.87	0.58	0.43	0.29	0.78	0.52	0.39	0.26	0.64	0.43	0.32	0.21	0.59	0.40	0.30	0.20

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PV-ezRack Commercial Tilt interface spacing table for **LYSAGHT KLIP-LOK 700 HI-STRENGTH (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.68	1.12	0.84	0.56	1.68	1.12	0.84	0.56	1.60	1.07	0.80	0.53	1.54	1.03	0.77	0.51	1.35	0.90	0.68	0.45
WRB	1.20	0.80	0.60	0.40	1.20	0.80	0.60	0.40	1.03	0.69	0.52	0.34	0.92	0.62	0.46	0.31	0.81	0.54	0.40	0.27
WRC	0.77	0.51	0.38	0.26	0.77	0.51	0.38	0.26	0.67	0.45	0.33	0.22	0.52	0.35	0.26	0.17	0.45	0.30	0.23	0.15

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.63	1.08	0.81	0.54	1.57	1.04	0.78	0.52	1.50	1.00	0.75	0.50	1.46	0.97	0.73	0.49	1.25	0.84	0.63	0.42
WRB	1.08	0.72	0.54	0.36	0.98	0.65	0.49	0.33	0.86	0.57	0.43	0.29	0.79	0.53	0.40	0.26	0.72	0.48	0.36	0.24
WRC	0.70	0.47	0.35	0.23	0.63	0.42	0.32	0.21	0.56	0.37	0.28	0.19	0.45	0.30	0.22	0.15	0.41	0.27	0.20	0.14

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.58	1.05	0.79	0.53	1.47	0.98	0.73	0.49	1.38	0.92	0.69	0.46	1.31	0.87	0.65	0.44	1.12	0.74	0.56	0.37
WRB	0.98	0.66	0.49	0.33	0.81	0.54	0.40	0.27	0.73	0.49	0.37	0.24	0.69	0.46	0.35	0.23	0.64	0.43	0.32	0.21
WRC	0.64	0.43	0.32	0.21	0.52	0.35	0.26	0.17	0.48	0.32	0.24	0.16	0.39	0.26	0.19	0.13	0.36	0.24	0.18	0.12

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PV-ezRack Commercial Tilt interface spacing table for **LYSAGHT KLIP-LOK 700 HI-STRENGTH (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.50	1.00	0.75	0.50	1.50	1.00	0.75	0.50	1.41	0.94	0.70	0.47	1.26	0.84	0.63	0.42	1.02	0.68	0.51	0.34
WRB	0.86	0.57	0.43	0.29	0.86	0.57	0.43	0.29	0.75	0.50	0.37	0.25	0.66	0.44	0.33	0.22	0.58	0.39	0.29	0.19
WRC	0.55	0.37	0.28	0.18	0.55	0.37	0.28	0.18	0.48	0.32	0.24	0.16	0.37	0.25	0.19	0.12	0.33	0.22	0.17	0.11

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.45	0.97	0.73	0.48	1.33	0.89	0.67	0.44	1.18	0.78	0.59	0.39	1.08	0.72	0.54	0.36	0.90	0.60	0.45	0.30
WRB	0.78	0.52	0.39	0.26	0.70	0.47	0.35	0.23	0.62	0.42	0.31	0.21	0.57	0.38	0.28	0.19	0.52	0.34	0.26	0.17
WRC	0.51	0.34	0.25	0.17	0.45	0.30	0.23	0.15	0.41	0.27	0.20	0.14	0.33	0.22	0.16	0.11	0.29	0.20	0.15	0.10

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.34	0.89	0.67	0.45	1.10	0.73	0.55	0.37	0.99	0.66	0.50	0.33	0.93	0.62	0.47	0.31	0.80	0.53	0.40	0.27
WRB	0.71	0.47	0.35	0.24	0.58	0.39	0.29	0.19	0.53	0.35	0.27	0.18	0.50	0.33	0.25	0.17	0.46	0.31	0.23	0.15
WRC	0.46	0.31	0.23	0.15	0.38	0.26	0.19	0.13	0.35	0.23	0.17	0.12	0.28	0.19	0.14	0.09	0.26	0.17	0.13	0.09

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PV-ezRack Commercial Tilt interface spacing table for **LYSAGHT KLIP-LOK 406**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
 Type of Interface ER-I-32/AU and ER-I-34
 Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.88	1.25	0.94	0.63	1.88	1.25	0.94	0.63	1.78	1.18	0.89	0.59	1.70	1.13	0.85	0.57	1.62	1.08	0.81	0.54
WRB	1.45	0.96	0.72	0.48	1.45	0.96	0.72	0.48	1.24	0.83	0.62	0.41	1.10	0.73	0.55	0.37	0.96	0.64	0.48	0.32
WRC	0.92	0.61	0.46	0.31	0.92	0.61	0.46	0.31	0.79	0.53	0.40	0.26	0.61	0.40	0.30	0.20	0.53	0.36	0.27	0.18

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.81	1.21	0.90	0.60	1.74	1.16	0.87	0.58	1.66	1.11	0.83	0.55	1.61	1.07	0.80	0.54	1.52	1.01	0.76	0.51
WRB	1.30	0.87	0.65	0.43	1.17	0.78	0.58	0.39	1.03	0.69	0.52	0.34	0.94	0.63	0.47	0.31	0.85	0.56	0.42	0.28
WRC	0.83	0.55	0.42	0.28	0.75	0.50	0.37	0.25	0.66	0.44	0.33	0.22	0.53	0.35	0.26	0.18	0.47	0.32	0.24	0.16

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.75	1.16	0.87	0.58	1.62	1.08	0.81	0.54	1.55	1.03	0.77	0.52	1.45	0.97	0.73	0.48	1.34	0.89	0.67	0.45
WRB	1.18	0.78	0.59	0.39	0.96	0.64	0.48	0.32	0.87	0.58	0.43	0.29	0.82	0.54	0.41	0.27	0.75	0.50	0.38	0.25
WRC	0.75	0.50	0.38	0.25	0.62	0.41	0.31	0.21	0.56	0.37	0.28	0.19	0.45	0.30	0.23	0.15	0.42	0.28	0.21	0.14

Refer to note 3 to find out installation exclusion zones. This certificate document is only valid for installations on top of the purlins. If you cannot meet the conditions provided by the tables above (relating to installations on top of the purlins) or if you require installations off the purlins, please contact engineering@clenergy.com.au.

PV-ezRack Commercial Tilt interface spacing table for **LYSAGHT KLIP-LOK 406 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-32/AU and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.52	1.02	0.76	0.51	1.52	1.02	0.76	0.51	1.31	0.87	0.65	0.44	1.16	0.77	0.58	0.39	1.02	0.68	0.51	0.34	
WRB	0.85	0.57	0.43	0.28	0.85	0.57	0.43	0.28	0.74	0.49	0.37	0.25	0.65	0.44	0.33	0.22	0.58	0.38	0.29	0.19	
WRC	0.55	0.36	0.27	0.18	0.55	0.36	0.27	0.18	0.48	0.32	0.24	0.16	0.37	0.24	0.18	0.12	0.33	0.22	0.16	0.11	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.38	0.92	0.69	0.46	1.23	0.82	0.62	0.41	1.08	0.72	0.54	0.36	0.99	0.66	0.50	0.33	0.89	0.59	0.45	0.30	
WRB	0.78	0.52	0.39	0.26	0.69	0.46	0.35	0.23	0.62	0.41	0.31	0.21	0.57	0.38	0.28	0.19	0.52	0.34	0.26	0.17	
WRC	0.50	0.33	0.25	0.17	0.45	0.30	0.22	0.15	0.40	0.27	0.20	0.13	0.32	0.21	0.16	0.11	0.29	0.19	0.14	0.10	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.25	0.83	0.62	0.42	1.02	0.68	0.51	0.34	0.92	0.61	0.46	0.31	0.86	0.57	0.43	0.29	0.79	0.53	0.40	0.26	
WRB	0.70	0.47	0.35	0.23	0.58	0.38	0.29	0.19	0.52	0.35	0.26	0.17	0.49	0.33	0.25	0.16	0.45	0.30	0.23	0.15	
WRC	0.45	0.30	0.23	0.15	0.38	0.25	0.19	0.13	0.34	0.23	0.17	0.11	0.28	0.19	0.14	0.09	0.26	0.17	0.13	0.09	

Refer to note 3 to find out installation exclusion zones. This certificate document is only valid for installations on top of the purlins. If you cannot meet the conditions provided by the tables above (relating to installations on top of the purlins) or if you require installations off the purlins, please contact engineering@clenergy.com.au.

PV-ezRack Commercial Tilt interface spacing table for **LYSAGHT KLIP-LOK 406 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-32/AU and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.08	0.72	0.54	0.36	1.08	0.72	0.54	0.36	0.93	0.62	0.47	0.31	0.82	0.55	0.41	0.27	0.72	0.48	0.36	0.24
WRB	0.62	0.41	0.31	0.21	0.62	0.41	0.31	0.21	0.53	0.35	0.27	0.18	0.48	0.32	0.24	0.16	0.42	0.28	0.21	0.14
WRC	0.40	0.27	0.20	0.13	0.40	0.27	0.20	0.13	0.35	0.23	0.17	0.12	0.27	0.18	0.13	0.09	0.23	0.16	0.12	0.08

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	0.98	0.65	0.49	0.33	0.88	0.58	0.44	0.29	0.77	0.51	0.38	0.26	0.71	0.47	0.35	0.24	0.64	0.43	0.32	0.21
WRB	0.55	0.37	0.28	0.18	0.50	0.33	0.25	0.17	0.45	0.30	0.22	0.15	0.41	0.27	0.20	0.14	0.37	0.25	0.18	0.12
WRC	0.36	0.24	0.18	0.12	0.32	0.22	0.16	0.11	0.29	0.19	0.15	0.10	0.23	0.16	0.12	0.08	0.21	0.14	0.10	0.07

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	0.88	0.59	0.44	0.29	0.72	0.48	0.36	0.24	0.65	0.44	0.33	0.22	0.62	0.41	0.31	0.21	0.57	0.38	0.28	0.19
WRB	0.51	0.34	0.25	0.17	0.42	0.28	0.21	0.14	0.38	0.25	0.19	0.13	0.35	0.24	0.18	0.12	0.33	0.22	0.17	0.11
WRC	0.33	0.22	0.17	0.11	0.27	0.18	0.13	0.09	0.25	0.16	0.12	0.08	0.20	0.13	0.10	0.07	0.19	0.12	0.09	0.06

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PV-ezRack Commercial Tilt interface spacing table for **STRAMIT SPEED DECK ULTRA**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
 Type of Interface ER-I-09 and ER-I-34
 Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.74	1.16	0.87	0.58	1.74	1.16	0.87	0.58	1.65	1.10	0.82	0.55	1.58	1.05	0.79	0.53	1.51	1.00	0.75	0.50	
WRB	1.53	1.02	0.77	0.51	1.53	1.02	0.77	0.51	1.45	0.97	0.73	0.48	1.39	0.93	0.70	0.46	1.34	0.89	0.67	0.45	
WRC	1.32	0.88	0.66	0.44	1.32	0.88	0.66	0.44	1.18	0.79	0.59	0.39	0.91	0.61	0.46	0.30	0.81	0.54	0.40	0.27	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.68	1.12	0.84	0.56	1.61	1.08	0.81	0.54	1.54	1.03	0.77	0.51	1.49	1.00	0.75	0.50	1.44	0.96	0.72	0.48	
WRB	1.48	0.98	0.74	0.49	1.42	0.95	0.71	0.47	1.36	0.91	0.68	0.45	1.32	0.88	0.66	0.44	1.28	0.85	0.64	0.43	
WRC	1.25	0.83	0.62	0.42	1.12	0.74	0.56	0.37	0.99	0.66	0.50	0.33	0.79	0.52	0.39	0.26	0.71	0.48	0.36	0.24	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.62	1.08	0.81	0.54	1.51	1.00	0.75	0.50	1.45	0.97	0.73	0.48	1.42	0.95	0.71	0.47	1.39	0.92	0.69	0.46	
WRB	1.43	0.95	0.72	0.48	1.34	0.89	0.67	0.45	1.29	0.86	0.65	0.43	1.23	0.82	0.62	0.41	1.14	0.76	0.57	0.38	
WRC	1.13	0.75	0.57	0.38	0.93	0.62	0.47	0.31	0.84	0.56	0.42	0.28	0.69	0.46	0.34	0.23	0.63	0.42	0.32	0.21	

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PV-ezRack Commercial Tilt interface spacing table for **STRAMIT SPEED DECK ULTRA (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.44	0.96	0.72	0.48	1.44	0.96	0.72	0.48	1.37	0.91	0.69	0.46	1.32	0.88	0.66	0.44	1.26	0.84	0.63	0.42	
WRB	1.28	0.86	0.64	0.43	1.28	0.86	0.64	0.43	1.11	0.74	0.55	0.37	0.98	0.66	0.49	0.33	0.87	0.58	0.43	0.29	
WRC	0.82	0.55	0.41	0.27	0.82	0.55	0.41	0.27	0.72	0.48	0.36	0.24	0.55	0.37	0.28	0.18	0.49	0.32	0.24	0.16	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.39	0.93	0.70	0.46	1.34	0.90	0.67	0.45	1.29	0.86	0.64	0.43	1.25	0.83	0.63	0.42	1.21	0.80	0.60	0.40	
WRB	1.16	0.77	0.58	0.39	1.05	0.70	0.52	0.35	0.92	0.62	0.46	0.31	0.85	0.56	0.42	0.28	0.77	0.51	0.38	0.26	
WRC	0.75	0.50	0.37	0.25	0.68	0.45	0.34	0.23	0.60	0.40	0.30	0.20	0.48	0.32	0.24	0.16	0.43	0.29	0.22	0.14	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.35	0.90	0.68	0.45	1.26	0.84	0.63	0.42	1.21	0.81	0.61	0.40	1.19	0.80	0.60	0.40	1.11	0.74	0.55	0.37	
WRB	1.05	0.70	0.53	0.35	0.87	0.58	0.43	0.29	0.78	0.52	0.39	0.26	0.74	0.49	0.37	0.25	0.68	0.46	0.34	0.23	
WRC	0.68	0.46	0.34	0.23	0.56	0.37	0.28	0.19	0.51	0.34	0.25	0.17	0.42	0.28	0.21	0.14	0.39	0.26	0.19	0.13	

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PV-ezRack Commercial Tilt interface spacing table for **STRAMIT SPEED DECK ULTRA (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.29	0.86	0.64	0.43	1.29	0.86	0.64	0.43	1.22	0.81	0.61	0.41	1.15	0.77	0.58	0.38	1.01	0.67	0.50	0.34	
WRB	0.92	0.62	0.46	0.31	0.92	0.62	0.46	0.31	0.79	0.53	0.40	0.26	0.71	0.47	0.35	0.24	0.62	0.42	0.31	0.21	
WRC	0.59	0.39	0.30	0.20	0.59	0.39	0.30	0.20	0.52	0.34	0.26	0.17	0.40	0.27	0.20	0.13	0.35	0.24	0.18	0.12	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.24	0.83	0.62	0.41	1.20	0.80	0.60	0.40	1.08	0.72	0.54	0.36	0.99	0.66	0.49	0.33	0.89	0.60	0.45	0.30	
WRB	0.83	0.55	0.42	0.28	0.75	0.50	0.38	0.25	0.67	0.45	0.33	0.22	0.62	0.41	0.31	0.21	0.55	0.37	0.28	0.18	
WRC	0.54	0.36	0.27	0.18	0.48	0.32	0.24	0.16	0.43	0.29	0.22	0.14	0.35	0.23	0.17	0.12	0.31	0.21	0.16	0.10	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.21	0.80	0.60	0.40	1.01	0.67	0.50	0.34	0.91	0.61	0.46	0.30	0.86	0.57	0.43	0.29	0.79	0.53	0.40	0.26	
WRB	0.76	0.51	0.38	0.25	0.62	0.42	0.31	0.21	0.57	0.38	0.28	0.19	0.53	0.35	0.27	0.18	0.49	0.33	0.25	0.16	
WRC	0.49	0.33	0.25	0.16	0.41	0.27	0.20	0.14	0.37	0.25	0.18	0.12	0.30	0.20	0.15	0.10	0.28	0.19	0.14	0.09	

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PV-ezRack Commercial Tilt interface spacing table for **FIELDERS KINGKLIP 700**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.81	1.20	0.90	0.60	1.81	1.20	0.90	0.60	1.71	1.14	0.86	0.57	1.64	1.09	0.82	0.55	1.56	1.04	0.78	0.52	
WRB	1.53	1.02	0.77	0.51	1.53	1.02	0.77	0.51	1.45	0.97	0.73	0.48	1.39	0.93	0.70	0.46	1.34	0.89	0.67	0.45	
WRC	1.32	0.88	0.66	0.44	1.32	0.88	0.66	0.44	1.16	0.77	0.58	0.39	0.90	0.60	0.45	0.30	0.79	0.52	0.39	0.26	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.74	1.16	0.87	0.58	1.67	1.12	0.84	0.56	1.60	1.07	0.80	0.53	1.55	1.03	0.77	0.52	1.50	1.00	0.75	0.50	
WRB	1.48	0.98	0.74	0.49	1.42	0.95	0.71	0.47	1.36	0.91	0.68	0.45	1.32	0.88	0.66	0.44	1.25	0.84	0.63	0.42	
WRC	1.22	0.82	0.61	0.41	1.10	0.73	0.55	0.37	0.97	0.65	0.48	0.32	0.77	0.52	0.39	0.26	0.70	0.47	0.35	0.23	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.68	1.12	0.84	0.56	1.56	1.04	0.78	0.52	1.50	1.00	0.75	0.50	1.47	0.98	0.74	0.49	1.44	0.96	0.72	0.48	
WRB	1.43	0.95	0.72	0.48	1.34	0.89	0.67	0.45	1.28	0.85	0.64	0.43	1.20	0.80	0.60	0.40	1.12	0.74	0.56	0.37	
WRC	1.11	0.74	0.55	0.37	0.91	0.61	0.45	0.30	0.82	0.55	0.41	0.27	0.67	0.45	0.34	0.22	0.62	0.41	0.31	0.21	

Refer to note 3 to find out installation exclusion zones. This certificate document is only valid for installations on top of the purlins. If you cannot meet the conditions provided by the tables above (relating to installations on top of the purlins) or if you require installations off the purlins, please contact engineering@cleenergy.com.au.

PV-ezRack Commercial Tilt interface spacing table for **FIELDERS KINGKLIP 700 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.50	1.00	0.75	0.50	1.50	1.00	0.75	0.50	1.42	0.95	0.71	0.47	1.37	0.91	0.69	0.46	1.30	0.87	0.65	0.43
WRB	1.26	0.84	0.63	0.42	1.26	0.84	0.63	0.42	1.08	0.72	0.54	0.36	0.97	0.65	0.48	0.32	0.85	0.57	0.43	0.28
WRC	0.81	0.54	0.40	0.27	0.81	0.54	0.40	0.27	0.70	0.47	0.35	0.23	0.54	0.36	0.27	0.18	0.48	0.32	0.24	0.16

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.44	0.96	0.72	0.48	1.39	0.93	0.70	0.46	1.33	0.89	0.67	0.44	1.30	0.86	0.65	0.43	1.25	0.83	0.63	0.42
WRB	1.14	0.76	0.57	0.38	1.02	0.68	0.51	0.34	0.91	0.61	0.45	0.30	0.83	0.55	0.42	0.28	0.75	0.50	0.38	0.25
WRC	0.74	0.49	0.37	0.25	0.66	0.44	0.33	0.22	0.58	0.39	0.29	0.19	0.47	0.31	0.23	0.16	0.43	0.28	0.21	0.14

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.40	0.93	0.70	0.47	1.30	0.87	0.65	0.43	1.26	0.84	0.63	0.42	1.22	0.81	0.61	0.41	1.13	0.75	0.56	0.38
WRB	1.04	0.69	0.52	0.35	0.85	0.57	0.43	0.28	0.77	0.51	0.38	0.26	0.72	0.48	0.36	0.24	0.67	0.45	0.33	0.22
WRC	0.67	0.45	0.33	0.22	0.55	0.37	0.28	0.18	0.50	0.33	0.25	0.17	0.41	0.27	0.20	0.14	0.38	0.25	0.19	0.13

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PV-ezRack Commercial Tilt interface spacing table for **FIELDERS KINGKLIP 700 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.33	0.89	0.67	0.44	1.33	0.89	0.67	0.44	1.27	0.84	0.63	0.42	1.17	0.78	0.59	0.39	1.03	0.69	0.51	0.34	
WRB	0.90	0.60	0.45	0.30	0.90	0.60	0.45	0.30	0.78	0.52	0.39	0.26	0.70	0.47	0.35	0.23	0.62	0.41	0.31	0.21	
WRC	0.58	0.39	0.29	0.19	0.58	0.39	0.29	0.19	0.51	0.34	0.25	0.17	0.39	0.26	0.20	0.13	0.35	0.23	0.17	0.12	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.29	0.86	0.64	0.43	1.24	0.82	0.62	0.41	1.10	0.73	0.55	0.37	1.01	0.67	0.50	0.34	0.91	0.61	0.46	0.30	
WRB	0.82	0.54	0.41	0.27	0.74	0.49	0.37	0.25	0.65	0.44	0.33	0.22	0.60	0.40	0.30	0.20	0.55	0.36	0.27	0.18	
WRC	0.53	0.35	0.27	0.18	0.48	0.32	0.24	0.16	0.42	0.28	0.21	0.14	0.34	0.23	0.17	0.11	0.31	0.20	0.15	0.10	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.25	0.83	0.63	0.42	1.03	0.69	0.51	0.34	0.93	0.62	0.46	0.31	0.87	0.58	0.44	0.29	0.81	0.54	0.40	0.27	
WRB	0.75	0.50	0.37	0.25	0.62	0.41	0.31	0.21	0.55	0.37	0.28	0.18	0.52	0.35	0.26	0.17	0.48	0.32	0.24	0.16	
WRC	0.48	0.32	0.24	0.16	0.40	0.27	0.20	0.13	0.36	0.24	0.18	0.12	0.29	0.20	0.15	0.10	0.27	0.18	0.14	0.09	

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PV-ezRack Commercial Tilt interface spacing table for **STRATCO TOPDECK 700**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.81	1.20	0.90	0.60	1.81	1.20	0.90	0.60	1.71	1.14	0.86	0.57	1.64	1.09	0.82	0.55	1.56	1.04	0.78	0.52	
WRB	1.36	0.91	0.68	0.45	1.36	0.91	0.68	0.45	1.17	0.78	0.58	0.39	1.04	0.69	0.52	0.35	0.91	0.61	0.45	0.30	
WRC	0.86	0.57	0.43	0.29	0.86	0.57	0.43	0.29	0.75	0.50	0.37	0.25	0.57	0.38	0.29	0.19	0.51	0.34	0.25	0.17	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.74	1.16	0.87	0.58	1.67	1.12	0.84	0.56	1.60	1.07	0.80	0.53	1.53	1.02	0.77	0.51	1.37	0.91	0.69	0.46	
WRB	1.22	0.82	0.61	0.41	1.10	0.73	0.55	0.37	0.97	0.65	0.48	0.32	0.88	0.59	0.44	0.29	0.80	0.53	0.40	0.27	
WRC	0.78	0.52	0.39	0.26	0.70	0.47	0.35	0.23	0.62	0.42	0.31	0.21	0.49	0.33	0.25	0.16	0.45	0.30	0.22	0.15	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.68	1.12	0.84	0.56	1.56	1.04	0.78	0.52	1.40	0.93	0.70	0.47	1.32	0.88	0.66	0.44	1.21	0.81	0.61	0.40	
WRB	1.11	0.74	0.55	0.37	0.91	0.61	0.45	0.30	0.82	0.54	0.41	0.27	0.77	0.51	0.38	0.26	0.72	0.48	0.36	0.24	
WRC	0.71	0.47	0.35	0.24	0.58	0.39	0.29	0.19	0.52	0.35	0.26	0.17	0.43	0.28	0.21	0.14	0.40	0.27	0.20	0.13	

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PV-ezRack Commercial Tilt interface spacing table for **STRATCO TOPDECK 700 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.39	0.92	0.69	0.46	1.39	0.92	0.69	0.46	1.19	0.79	0.59	0.40	1.05	0.70	0.53	0.35	0.92	0.61	0.46	0.31
WRB	0.81	0.54	0.40	0.27	0.81	0.54	0.40	0.27	0.69	0.46	0.35	0.23	0.62	0.41	0.31	0.21	0.55	0.36	0.27	0.18
WRC	0.52	0.34	0.26	0.17	0.52	0.34	0.26	0.17	0.45	0.30	0.22	0.15	0.35	0.23	0.17	0.12	0.31	0.20	0.15	0.10

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.24	0.83	0.62	0.41	1.11	0.74	0.56	0.37	0.98	0.65	0.49	0.33	0.90	0.60	0.45	0.30	0.81	0.54	0.40	0.27
WRB	0.73	0.49	0.37	0.24	0.65	0.44	0.33	0.22	0.58	0.38	0.29	0.19	0.53	0.35	0.27	0.18	0.48	0.32	0.24	0.16
WRC	0.47	0.31	0.23	0.16	0.42	0.28	0.21	0.14	0.38	0.25	0.19	0.13	0.30	0.20	0.15	0.10	0.27	0.18	0.14	0.09

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.13	0.75	0.56	0.38	0.92	0.61	0.46	0.31	0.83	0.55	0.41	0.28	0.78	0.52	0.39	0.26	0.72	0.48	0.36	0.24
WRB	0.66	0.44	0.33	0.22	0.55	0.36	0.27	0.18	0.49	0.33	0.25	0.16	0.46	0.31	0.23	0.15	0.43	0.29	0.22	0.14
WRC	0.43	0.29	0.22	0.14	0.35	0.24	0.18	0.12	0.32	0.22	0.16	0.11	0.26	0.17	0.13	0.09	0.24	0.16	0.12	0.08

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PV-ezRack Commercial Tilt interface spacing table for **STRATCO TOPDECK 700 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	0.98	0.65	0.49	0.33	0.98	0.65	0.49	0.33	0.84	0.56	0.42	0.28	0.75	0.50	0.37	0.25	0.66	0.44	0.33	0.22
WRB	0.58	0.38	0.29	0.19	0.58	0.38	0.29	0.19	0.50	0.33	0.25	0.17	0.45	0.30	0.22	0.15	0.39	0.26	0.20	0.13
WRC	0.38	0.25	0.19	0.13	0.38	0.25	0.19	0.13	0.32	0.22	0.16	0.11	0.25	0.17	0.13	0.08	0.22	0.15	0.11	0.07

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	0.88	0.59	0.44	0.29	0.79	0.53	0.40	0.26	0.70	0.46	0.35	0.23	0.64	0.43	0.32	0.21	0.58	0.39	0.29	0.19
WRB	0.52	0.35	0.26	0.17	0.47	0.31	0.23	0.16	0.42	0.28	0.21	0.14	0.38	0.26	0.19	0.13	0.35	0.23	0.17	0.12
WRC	0.34	0.23	0.17	0.11	0.31	0.21	0.15	0.10	0.27	0.18	0.13	0.09	0.22	0.15	0.11	0.07	0.20	0.13	0.10	0.07

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	0.80	0.53	0.40	0.27	0.66	0.44	0.33	0.22	0.59	0.40	0.30	0.20	0.56	0.37	0.28	0.19	0.52	0.35	0.26	0.17
WRB	0.48	0.32	0.24	0.16	0.39	0.26	0.20	0.13	0.35	0.24	0.18	0.12	0.34	0.23	0.17	0.11	0.31	0.21	0.15	0.10
WRC	0.31	0.21	0.15	0.10	0.25	0.17	0.13	0.08	0.23	0.15	0.12	0.08	0.19	0.13	0.10	0.06	0.18	0.12	0.09	0.06

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PV-ezRack Commercial Tilt interface spacing table for **LYSAGHT LONGLINE 305**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
 Type of Interface ER-I-29 and ER-I-34 (Refer to Note 5 for ER-I-34 reduction factors)
 Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.77	1.18	0.88	0.59	1.77	1.18	0.88	0.59	1.67	1.12	0.84	0.56	1.60	1.07	0.80	0.53	1.46	0.97	0.73	0.49	
WRB	1.53	1.02	0.77	0.51	1.53	1.02	0.77	0.51	1.45	0.97	0.73	0.48	1.39	0.93	0.70	0.46	1.18	0.79	0.59	0.39	
WRC	1.25	0.83	0.62	0.42	1.25	0.83	0.62	0.42	1.08	0.72	0.54	0.36	0.83	0.56	0.42	0.28	0.65	0.44	0.33	0.22	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.70	1.14	0.85	0.57	1.64	1.09	0.82	0.55	1.57	1.04	0.78	0.52	1.51	1.01	0.76	0.50	1.40	0.93	0.70	0.47	
WRB	1.48	0.98	0.74	0.49	1.42	0.95	0.71	0.47	1.36	0.91	0.68	0.45	1.28	0.86	0.64	0.43	1.05	0.70	0.52	0.35	
WRC	1.13	0.75	0.57	0.38	1.02	0.68	0.51	0.34	0.90	0.60	0.45	0.30	0.71	0.48	0.36	0.24	0.58	0.39	0.29	0.19	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.64	1.10	0.82	0.55	1.53	1.02	0.76	0.51	1.47	0.98	0.74	0.49	1.44	0.96	0.72	0.48	1.34	0.90	0.67	0.45	
WRB	1.43	0.95	0.72	0.48	1.32	0.88	0.66	0.44	1.18	0.79	0.59	0.39	1.12	0.74	0.56	0.37	0.93	0.62	0.46	0.31	
WRC	1.02	0.68	0.51	0.34	0.84	0.56	0.42	0.28	0.76	0.51	0.38	0.25	0.62	0.41	0.31	0.21	0.52	0.34	0.26	0.17	

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PV-ezRack Commercial Tilt interface spacing table for LYSAGHT LONGLINE 305 (Cont.)

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-29 and ER-I-34 (Refer to Note 5 for ER-I-34 reduction factors)
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.46	0.98	0.73	0.49	1.46	0.98	0.73	0.49	1.39	0.93	0.70	0.46	1.34	0.89	0.67	0.45	1.22	0.81	0.61	0.41	
WRB	1.16	0.77	0.58	0.39	1.16	0.77	0.58	0.39	1.01	0.67	0.50	0.34	0.89	0.59	0.45	0.30	0.71	0.47	0.35	0.24	
WRC	0.75	0.50	0.37	0.25	0.75	0.50	0.37	0.25	0.65	0.43	0.32	0.22	0.50	0.33	0.25	0.17	0.40	0.26	0.20	0.13	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.41	0.94	0.71	0.47	1.36	0.91	0.68	0.45	1.30	0.87	0.65	0.43	1.27	0.85	0.63	0.42	1.09	0.73	0.55	0.36	
WRB	1.05	0.70	0.53	0.35	0.95	0.63	0.47	0.32	0.84	0.56	0.42	0.28	0.77	0.51	0.38	0.26	0.63	0.42	0.32	0.21	
WRC	0.68	0.45	0.34	0.23	0.62	0.41	0.31	0.21	0.55	0.36	0.27	0.18	0.43	0.29	0.22	0.14	0.35	0.24	0.18	0.12	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.37	0.91	0.68	0.46	1.28	0.85	0.64	0.43	1.17	0.78	0.59	0.39	1.10	0.73	0.55	0.37	0.98	0.65	0.49	0.33	
WRB	0.96	0.64	0.48	0.32	0.78	0.52	0.39	0.26	0.71	0.47	0.35	0.24	0.67	0.45	0.33	0.22	0.56	0.37	0.28	0.19	
WRC	0.62	0.41	0.31	0.21	0.51	0.34	0.25	0.17	0.46	0.31	0.23	0.15	0.38	0.25	0.19	0.13	0.32	0.21	0.16	0.11	

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PV-ezRack Commercial Tilt interface spacing table for LYSAGHT LONGLINE 305 (Cont.)

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-29 and ER-I-34 (Refer to Note 5 for ER-I-34 reduction factors)
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.30	0.87	0.65	0.43	1.30	0.87	0.65	0.43	1.19	0.79	0.59	0.40	1.06	0.71	0.53	0.35	0.89	0.59	0.44	0.30	
WRB	0.83	0.55	0.42	0.28	0.83	0.55	0.42	0.28	0.72	0.48	0.36	0.24	0.65	0.43	0.32	0.22	0.51	0.34	0.26	0.17	
WRC	0.54	0.36	0.27	0.18	0.54	0.36	0.27	0.18	0.47	0.31	0.23	0.16	0.37	0.24	0.18	0.12	0.29	0.19	0.14	0.10	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.25	0.84	0.63	0.42	1.12	0.75	0.56	0.37	0.99	0.66	0.50	0.33	0.91	0.61	0.46	0.30	0.78	0.52	0.39	0.26	
WRB	0.75	0.50	0.38	0.25	0.68	0.46	0.34	0.23	0.61	0.41	0.30	0.20	0.55	0.37	0.28	0.18	0.45	0.30	0.23	0.15	
WRC	0.49	0.33	0.25	0.16	0.45	0.30	0.22	0.15	0.39	0.26	0.20	0.13	0.31	0.21	0.16	0.10	0.26	0.17	0.13	0.09	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.14	0.76	0.57	0.38	0.93	0.62	0.46	0.31	0.84	0.56	0.42	0.28	0.79	0.53	0.39	0.26	0.70	0.47	0.35	0.23	
WRB	0.69	0.46	0.35	0.23	0.57	0.38	0.28	0.19	0.52	0.34	0.26	0.17	0.48	0.32	0.24	0.16	0.40	0.27	0.20	0.13	
WRC	0.45	0.30	0.22	0.15	0.37	0.25	0.18	0.12	0.34	0.23	0.17	0.11	0.27	0.18	0.14	0.09	0.23	0.15	0.11	0.08	

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PV-ezRack Commercial Tilt interface spacing table for **METROLL METLOK 700**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
 Type of Interface ER-I-09 and ER-I-34
 Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	2.03	1.36	1.02	0.68	2.03	1.36	1.02	0.68	1.93	1.28	0.96	0.64	1.84	1.23	0.92	0.61	1.53	1.02	0.77	0.51	
WRB	1.28	0.86	0.64	0.43	1.28	0.86	0.64	0.43	1.10	0.73	0.55	0.37	0.98	0.65	0.49	0.33	0.85	0.57	0.43	0.28	
WRC	0.82	0.54	0.41	0.27	0.82	0.54	0.41	0.27	0.70	0.47	0.35	0.23	0.54	0.36	0.27	0.18	0.47	0.32	0.24	0.16	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.96	1.31	0.98	0.65	1.88	1.26	0.94	0.63	1.78	1.19	0.89	0.59	1.63	1.08	0.81	0.54	1.35	0.90	0.67	0.45	
WRB	1.15	0.77	0.58	0.38	1.04	0.69	0.52	0.35	0.92	0.61	0.46	0.31	0.84	0.56	0.42	0.28	0.75	0.50	0.38	0.25	
WRC	0.74	0.49	0.37	0.25	0.66	0.44	0.33	0.22	0.58	0.39	0.29	0.19	0.47	0.31	0.23	0.16	0.42	0.28	0.21	0.14	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.89	1.26	0.95	0.63	1.66	1.11	0.83	0.55	1.49	0.99	0.75	0.50	1.40	0.93	0.70	0.47	1.19	0.79	0.60	0.40	
WRB	1.05	0.70	0.52	0.35	0.85	0.57	0.43	0.28	0.77	0.51	0.38	0.26	0.72	0.48	0.36	0.24	0.67	0.45	0.33	0.22	
WRC	0.67	0.45	0.33	0.22	0.55	0.36	0.27	0.18	0.49	0.33	0.25	0.16	0.41	0.27	0.20	0.14	0.37	0.25	0.19	0.12	

Refer to note 3 to find out installation exclusion zones. This certificate document is only valid for installations on top of the purlins. If you cannot meet the conditions provided by the tables above (relating to installations on top of the purlins) or if you require installations off the purlins, please contact engineering@cleenergy.com.au.

PV-ezRack Commercial Tilt interface spacing table for **METROLL METLOK 700 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.47	0.98	0.73	0.49	1.47	0.98	0.73	0.49	1.26	0.84	0.63	0.42	1.12	0.74	0.56	0.37	0.90	0.60	0.45	0.30
WRB	0.76	0.51	0.38	0.25	0.76	0.51	0.38	0.25	0.65	0.44	0.33	0.22	0.58	0.39	0.29	0.19	0.52	0.34	0.26	0.17
WRC	0.49	0.33	0.25	0.16	0.49	0.33	0.25	0.16	0.42	0.28	0.21	0.14	0.33	0.22	0.16	0.11	0.29	0.19	0.14	0.10

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.33	0.88	0.66	0.44	1.18	0.79	0.59	0.39	1.04	0.69	0.52	0.35	0.96	0.64	0.48	0.32	0.79	0.53	0.40	0.26
WRB	0.68	0.46	0.34	0.23	0.62	0.41	0.31	0.21	0.55	0.36	0.27	0.18	0.50	0.33	0.25	0.17	0.45	0.30	0.23	0.15
WRC	0.45	0.30	0.22	0.15	0.40	0.27	0.20	0.13	0.35	0.24	0.18	0.12	0.28	0.19	0.14	0.09	0.26	0.17	0.13	0.09

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.20	0.80	0.60	0.40	0.97	0.65	0.49	0.33	0.87	0.58	0.44	0.29	0.83	0.55	0.41	0.28	0.71	0.47	0.35	0.24
WRB	0.62	0.42	0.31	0.21	0.52	0.34	0.26	0.17	0.46	0.31	0.23	0.15	0.44	0.29	0.22	0.15	0.41	0.27	0.20	0.14
WRC	0.41	0.27	0.20	0.14	0.33	0.22	0.17	0.11	0.30	0.20	0.15	0.10	0.25	0.16	0.12	0.08	0.23	0.15	0.11	0.08

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PV-ezRack Commercial Tilt interface spacing table for **METROLL METLOK 700 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.04	0.69	0.52	0.35	1.04	0.69	0.52	0.35	0.89	0.59	0.45	0.30	0.79	0.53	0.40	0.26	0.65	0.43	0.32	0.22	
WRB	0.55	0.36	0.27	0.18	0.55	0.36	0.27	0.18	0.47	0.31	0.23	0.16	0.42	0.28	0.21	0.14	0.37	0.25	0.18	0.12	
WRC	0.35	0.24	0.18	0.12	0.35	0.24	0.18	0.12	0.31	0.21	0.15	0.10	0.24	0.16	0.12	0.08	0.21	0.14	0.10	0.07	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	0.93	0.62	0.47	0.31	0.84	0.56	0.42	0.28	0.74	0.49	0.37	0.25	0.68	0.46	0.34	0.23	0.57	0.38	0.28	0.19	
WRB	0.49	0.33	0.25	0.16	0.45	0.30	0.22	0.15	0.39	0.26	0.20	0.13	0.36	0.24	0.18	0.12	0.33	0.22	0.17	0.11	
WRC	0.32	0.22	0.16	0.11	0.29	0.19	0.15	0.10	0.25	0.17	0.13	0.08	0.21	0.14	0.10	0.07	0.19	0.12	0.09	0.06	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	0.85	0.57	0.43	0.28	0.70	0.47	0.35	0.23	0.63	0.42	0.31	0.21	0.59	0.39	0.30	0.20	0.51	0.34	0.25	0.17	
WRB	0.45	0.30	0.22	0.15	0.37	0.25	0.18	0.12	0.34	0.23	0.17	0.11	0.32	0.21	0.16	0.11	0.29	0.19	0.15	0.10	
WRC	0.29	0.19	0.15	0.10	0.24	0.16	0.12	0.08	0.22	0.15	0.11	0.07	0.18	0.12	0.09	0.06	0.17	0.11	0.08	0.06	

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PV-ezRack Commercial Tilt interface spacing table for **STRAMIT SPEED DECK 500**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
 Type of Interface ER-I-09 and ER-I-34
 Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.88	1.25	0.94	0.63	1.88	1.25	0.94	0.63	1.78	1.18	0.89	0.59	1.70	1.13	0.85	0.57	1.62	1.08	0.81	0.54	
WRB	1.45	0.97	0.73	0.48	1.45	0.97	0.73	0.48	1.25	0.83	0.62	0.42	1.11	0.74	0.55	0.37	0.97	0.65	0.48	0.32	
WRC	0.92	0.62	0.46	0.31	0.92	0.62	0.46	0.31	0.79	0.53	0.40	0.26	0.61	0.41	0.31	0.20	0.54	0.36	0.27	0.18	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.81	1.21	0.90	0.60	1.74	1.16	0.87	0.58	1.66	1.11	0.83	0.55	1.61	1.07	0.80	0.54	1.52	1.02	0.76	0.51	
WRB	1.31	0.87	0.65	0.44	1.17	0.78	0.58	0.39	1.03	0.69	0.52	0.34	0.95	0.63	0.47	0.32	0.85	0.57	0.43	0.28	
WRC	0.83	0.55	0.42	0.28	0.75	0.50	0.37	0.25	0.66	0.44	0.33	0.22	0.53	0.35	0.26	0.18	0.48	0.32	0.24	0.16	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.75	1.16	0.87	0.58	1.62	1.08	0.81	0.54	1.55	1.04	0.78	0.52	1.46	0.97	0.73	0.49	1.35	0.90	0.67	0.45	
WRB	1.18	0.79	0.59	0.39	0.97	0.65	0.48	0.32	0.87	0.58	0.43	0.29	0.82	0.55	0.41	0.27	0.76	0.51	0.38	0.25	
WRC	0.75	0.50	0.38	0.25	0.62	0.42	0.31	0.21	0.56	0.37	0.28	0.19	0.46	0.31	0.23	0.15	0.43	0.28	0.21	0.14	

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PV-ezRack Commercial Tilt interface spacing table for **STRAMIT SPEED DECK 500 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.53	1.02	0.77	0.51	1.53	1.02	0.77	0.51	1.32	0.88	0.66	0.44	1.16	0.77	0.58	0.39	1.02	0.68	0.51	0.34	
WRB	0.86	0.57	0.43	0.29	0.86	0.57	0.43	0.29	0.74	0.49	0.37	0.25	0.66	0.44	0.33	0.22	0.58	0.38	0.29	0.19	
WRC	0.55	0.37	0.28	0.18	0.55	0.37	0.28	0.18	0.48	0.32	0.24	0.16	0.37	0.25	0.19	0.12	0.33	0.22	0.16	0.11	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.38	0.92	0.69	0.46	1.24	0.83	0.62	0.41	1.08	0.72	0.54	0.36	1.00	0.67	0.50	0.33	0.90	0.60	0.45	0.30	
WRB	0.78	0.52	0.39	0.26	0.70	0.47	0.35	0.23	0.62	0.41	0.31	0.21	0.57	0.38	0.28	0.19	0.52	0.34	0.26	0.17	
WRC	0.50	0.33	0.25	0.17	0.45	0.30	0.23	0.15	0.40	0.27	0.20	0.13	0.32	0.21	0.16	0.11	0.29	0.20	0.15	0.10	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.25	0.84	0.63	0.42	1.02	0.68	0.51	0.34	0.92	0.61	0.46	0.31	0.86	0.57	0.43	0.29	0.80	0.53	0.40	0.27	
WRB	0.71	0.47	0.35	0.24	0.58	0.38	0.29	0.19	0.52	0.35	0.26	0.17	0.49	0.33	0.25	0.16	0.46	0.31	0.23	0.15	
WRC	0.45	0.30	0.23	0.15	0.38	0.25	0.19	0.13	0.34	0.23	0.17	0.11	0.28	0.19	0.14	0.09	0.26	0.17	0.13	0.09	

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PV-ezRack Commercial Tilt interface spacing table for **STRAMIT SPEED DECK 500 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-09 and ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.08	0.72	0.54	0.36	1.08	0.72	0.54	0.36	0.93	0.62	0.47	0.31	0.83	0.55	0.42	0.28	0.73	0.49	0.37	0.24	
WRB	0.62	0.41	0.31	0.21	0.62	0.41	0.31	0.21	0.53	0.35	0.27	0.18	0.48	0.32	0.24	0.16	0.42	0.28	0.21	0.14	
WRC	0.40	0.27	0.20	0.13	0.40	0.27	0.20	0.13	0.35	0.23	0.17	0.12	0.27	0.18	0.13	0.09	0.24	0.16	0.12	0.08	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	0.98	0.65	0.49	0.33	0.88	0.58	0.44	0.29	0.78	0.52	0.39	0.26	0.72	0.48	0.36	0.24	0.65	0.43	0.32	0.22	
WRB	0.56	0.37	0.28	0.19	0.50	0.33	0.25	0.17	0.45	0.30	0.22	0.15	0.41	0.27	0.20	0.14	0.37	0.25	0.18	0.12	
WRC	0.36	0.24	0.18	0.12	0.33	0.22	0.17	0.11	0.29	0.19	0.15	0.10	0.23	0.16	0.12	0.08	0.21	0.14	0.11	0.07	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	0.89	0.59	0.45	0.30	0.73	0.49	0.37	0.24	0.65	0.44	0.33	0.22	0.62	0.42	0.31	0.21	0.58	0.38	0.29	0.19	
WRB	0.51	0.34	0.25	0.17	0.42	0.28	0.21	0.14	0.38	0.25	0.19	0.13	0.36	0.24	0.18	0.12	0.33	0.22	0.17	0.11	
WRC	0.33	0.22	0.17	0.11	0.28	0.18	0.14	0.09	0.25	0.16	0.12	0.08	0.20	0.13	0.10	0.07	0.19	0.12	0.09	0.06	

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PV-ezRack Commercial Tilt interface spacing table for **REV-KLIP 700**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.86	1.24	0.93	0.62	1.86	1.24	0.93	0.62	1.76	1.18	0.88	0.59	1.69	1.12	0.84	0.56	1.62	1.08	0.81	0.54	
WRB	1.53	1.02	0.77	0.51	1.53	1.02	0.77	0.51	1.44	0.96	0.72	0.48	1.28	0.85	0.64	0.43	1.12	0.75	0.56	0.37	
WRC	1.06	0.71	0.53	0.35	1.06	0.71	0.53	0.35	0.92	0.61	0.46	0.31	0.71	0.47	0.35	0.24	0.62	0.41	0.31	0.21	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.79	1.20	0.90	0.60	1.73	1.15	0.86	0.58	1.65	1.10	0.82	0.55	1.60	1.06	0.80	0.53	1.55	1.04	0.78	0.52	
WRB	1.48	0.98	0.74	0.49	1.35	0.90	0.68	0.45	1.19	0.79	0.60	0.40	1.10	0.73	0.55	0.37	0.99	0.66	0.50	0.33	
WRC	0.96	0.64	0.48	0.32	0.87	0.58	0.43	0.29	0.77	0.51	0.38	0.26	0.61	0.41	0.31	0.20	0.55	0.37	0.28	0.18	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.73	1.16	0.87	0.58	1.61	1.07	0.81	0.54	1.55	1.03	0.77	0.52	1.52	1.01	0.76	0.51	1.49	0.99	0.75	0.50	
WRB	1.38	0.92	0.69	0.46	1.12	0.75	0.56	0.37	1.01	0.67	0.50	0.34	0.95	0.64	0.48	0.32	0.88	0.58	0.44	0.29	
WRC	0.88	0.58	0.44	0.29	0.72	0.48	0.36	0.24	0.65	0.43	0.32	0.22	0.53	0.36	0.27	0.18	0.49	0.33	0.25	0.16	

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PV-ezRack Commercial Tilt interface spacing table for REV-KLIP 700 (Cont.)

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.54	1.03	0.77	0.51	1.54	1.03	0.77	0.51	1.47	0.98	0.73	0.49	1.34	0.89	0.67	0.45	1.18	0.78	0.59	0.39
WRB	0.99	0.66	0.50	0.33	0.99	0.66	0.50	0.33	0.85	0.57	0.43	0.28	0.76	0.51	0.38	0.25	0.67	0.45	0.33	0.22
WRC	0.64	0.43	0.32	0.21	0.64	0.43	0.32	0.21	0.55	0.37	0.28	0.18	0.43	0.28	0.21	0.14	0.38	0.25	0.19	0.13

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.49	0.99	0.74	0.50	1.42	0.95	0.71	0.47	1.25	0.83	0.63	0.42	1.15	0.76	0.57	0.38	1.04	0.69	0.52	0.35
WRB	0.90	0.60	0.45	0.30	0.81	0.54	0.40	0.27	0.72	0.48	0.36	0.24	0.66	0.44	0.33	0.22	0.59	0.39	0.30	0.20
WRC	0.58	0.38	0.29	0.19	0.52	0.35	0.26	0.17	0.46	0.31	0.23	0.15	0.37	0.25	0.19	0.12	0.33	0.22	0.17	0.11

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.44	0.96	0.72	0.48	1.17	0.78	0.58	0.39	1.05	0.70	0.53	0.35	0.99	0.66	0.50	0.33	0.92	0.62	0.46	0.31
WRB	0.82	0.54	0.41	0.27	0.67	0.45	0.33	0.22	0.61	0.41	0.30	0.20	0.57	0.38	0.28	0.19	0.53	0.35	0.27	0.18
WRC	0.53	0.35	0.27	0.18	0.44	0.29	0.22	0.15	0.39	0.26	0.20	0.13	0.32	0.21	0.16	0.11	0.30	0.20	0.15	0.10

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PV-ezRack Commercial Tilt interface spacing table for REV-KLIP 700 (Cont.)

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.24	0.83	0.62	0.41	1.24	0.83	0.62	0.41	1.07	0.71	0.53	0.36	0.95	0.64	0.48	0.32	0.84	0.56	0.42	0.28	
WRB	0.72	0.48	0.36	0.24	0.72	0.48	0.36	0.24	0.62	0.41	0.31	0.21	0.55	0.37	0.28	0.18	0.48	0.32	0.24	0.16	
WRC	0.46	0.31	0.23	0.15	0.46	0.31	0.23	0.15	0.40	0.27	0.20	0.13	0.31	0.21	0.16	0.10	0.27	0.18	0.14	0.09	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.12	0.75	0.56	0.37	1.01	0.67	0.50	0.34	0.89	0.60	0.45	0.30	0.82	0.54	0.41	0.27	0.75	0.50	0.37	0.25	
WRB	0.65	0.43	0.32	0.22	0.58	0.39	0.29	0.19	0.52	0.34	0.26	0.17	0.48	0.32	0.24	0.16	0.43	0.29	0.22	0.14	
WRC	0.42	0.28	0.21	0.14	0.38	0.25	0.19	0.13	0.34	0.23	0.17	0.11	0.27	0.18	0.13	0.09	0.25	0.16	0.12	0.08	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.02	0.68	0.51	0.34	0.83	0.55	0.42	0.28	0.76	0.50	0.38	0.25	0.71	0.47	0.35	0.24	0.66	0.44	0.33	0.22	
WRB	0.59	0.39	0.30	0.20	0.48	0.32	0.24	0.16	0.44	0.29	0.22	0.15	0.42	0.28	0.21	0.14	0.38	0.26	0.19	0.13	
WRC	0.38	0.26	0.19	0.13	0.32	0.21	0.16	0.11	0.28	0.19	0.14	0.09	0.23	0.16	0.12	0.08	0.22	0.15	0.11	0.07	

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PV-ezRack Commercial Tilt interface spacing table for **METROLL METLOK 500**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.69	1.12	0.84	0.56	1.69	1.12	0.84	0.56	1.43	0.95	0.72	0.48	1.26	0.84	0.63	0.42	1.15	0.76	0.57	0.38	
WRB	0.96	0.64	0.48	0.32	0.96	0.64	0.48	0.32	0.82	0.55	0.41	0.27	0.73	0.49	0.37	0.24	0.64	0.43	0.32	0.21	
WRC	0.61	0.41	0.30	0.20	0.61	0.41	0.30	0.20	0.52	0.35	0.26	0.17	0.41	0.27	0.20	0.14	0.36	0.24	0.18	0.12	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.50	1.00	0.75	0.50	1.34	0.89	0.67	0.45	1.17	0.78	0.58	0.39	1.07	0.71	0.53	0.36	1.01	0.67	0.50	0.34	
WRB	0.87	0.58	0.43	0.29	0.78	0.52	0.39	0.26	0.68	0.46	0.34	0.23	0.63	0.42	0.32	0.21	0.57	0.38	0.28	0.19	
WRC	0.55	0.37	0.28	0.18	0.49	0.33	0.25	0.16	0.44	0.29	0.22	0.15	0.35	0.23	0.17	0.12	0.31	0.21	0.16	0.10	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.36	0.91	0.68	0.45	1.09	0.73	0.54	0.36	0.98	0.65	0.49	0.33	0.92	0.61	0.46	0.31	0.89	0.59	0.45	0.30	
WRB	0.78	0.52	0.39	0.26	0.64	0.43	0.32	0.21	0.58	0.38	0.29	0.19	0.55	0.36	0.27	0.18	0.51	0.34	0.25	0.17	
WRC	0.50	0.33	0.25	0.17	0.42	0.28	0.21	0.14	0.37	0.25	0.18	0.12	0.31	0.20	0.15	0.10	0.28	0.19	0.14	0.09	

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PV-ezRack Commercial Tilt interface spacing table for **METROLL METLOK 500 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
 Type of Interface ER-I-34
 Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	0.96	0.64	0.48	0.32	0.96	0.64	0.48	0.32	0.82	0.55	0.41	0.27	0.73	0.49	0.36	0.24	0.68	0.45	0.34	0.23
WRB	0.57	0.38	0.28	0.19	0.57	0.38	0.28	0.19	0.49	0.33	0.25	0.16	0.44	0.29	0.22	0.15	0.38	0.26	0.19	0.13
WRC	0.37	0.25	0.18	0.12	0.37	0.25	0.18	0.12	0.32	0.21	0.16	0.11	0.25	0.16	0.12	0.08	0.22	0.15	0.11	0.07

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	0.87	0.58	0.43	0.29	0.77	0.52	0.39	0.26	0.69	0.46	0.34	0.23	0.63	0.42	0.31	0.21	0.59	0.39	0.30	0.20
WRB	0.52	0.34	0.26	0.17	0.46	0.31	0.23	0.15	0.41	0.27	0.20	0.14	0.38	0.25	0.19	0.13	0.34	0.23	0.17	0.11
WRC	0.33	0.22	0.17	0.11	0.30	0.20	0.15	0.10	0.27	0.18	0.13	0.09	0.21	0.14	0.11	0.07	0.19	0.13	0.10	0.06

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	0.79	0.53	0.39	0.26	0.64	0.43	0.32	0.21	0.58	0.38	0.29	0.19	0.54	0.36	0.27	0.18	0.53	0.35	0.27	0.18
WRB	0.47	0.31	0.23	0.16	0.38	0.26	0.19	0.13	0.35	0.23	0.17	0.12	0.33	0.22	0.17	0.11	0.31	0.21	0.15	0.10
WRC	0.30	0.20	0.15	0.10	0.25	0.17	0.13	0.08	0.22	0.15	0.11	0.07	0.19	0.12	0.09	0.06	0.17	0.12	0.09	0.06

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PV-ezRack Commercial Tilt interface spacing table for **METROLL METLOK 500 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
 Type of Interface ER-I-34
 Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	0.68	0.45	0.34	0.23	0.68	0.45	0.34	0.23	0.58	0.39	0.29	0.19	0.52	0.35	0.26	0.17	0.48	0.32	0.24	0.16	
WRB	0.41	0.27	0.20	0.14	0.41	0.27	0.20	0.14	0.35	0.24	0.18	0.12	0.32	0.21	0.16	0.11	0.28	0.18	0.14	0.09	
WRC	0.26	0.17	0.13	0.09	0.26	0.17	0.13	0.09	0.23	0.15	0.12	0.08	0.18	0.12	0.09	0.06	0.16	0.11	0.08	0.05	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	0.61	0.41	0.31	0.20	0.55	0.37	0.28	0.18	0.49	0.33	0.24	0.16	0.45	0.30	0.22	0.15	0.42	0.28	0.21	0.14	
WRB	0.37	0.25	0.18	0.12	0.33	0.22	0.17	0.11	0.29	0.19	0.15	0.10	0.27	0.18	0.13	0.09	0.25	0.16	0.12	0.08	
WRC	0.24	0.16	0.12	0.08	0.22	0.14	0.11	0.07	0.19	0.13	0.10	0.06	0.15	0.10	0.08	0.05	0.14	0.09	0.07	0.05	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	0.56	0.37	0.28	0.19	0.46	0.31	0.23	0.15	0.42	0.28	0.21	0.14	0.39	0.26	0.19	0.13	0.38	0.25	0.19	0.13	
WRB	0.34	0.23	0.17	0.11	0.28	0.18	0.14	0.09	0.25	0.17	0.13	0.08	0.24	0.16	0.12	0.08	0.22	0.15	0.11	0.07	
WRC	0.22	0.15	0.11	0.07	0.18	0.12	0.09	0.06	0.16	0.11	0.08	0.05	0.13	0.09	0.07	0.04	0.13	0.08	0.06	0.04	

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PV-ezRack Commercial Tilt interface spacing table for **STEELINE STEEL-RIB 500 (ST28)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	2.00	1.33	1.00	0.67	2.00	1.33	1.00	0.67	1.89	1.26	0.95	0.63	1.81	1.21	0.91	0.60	1.62	1.08	0.81	0.54	
WRB	1.53	1.02	0.77	0.51	1.53	1.02	0.77	0.51	1.45	0.97	0.73	0.48	1.39	0.93	0.70	0.46	1.30	0.87	0.65	0.43	
WRC	1.24	0.83	0.62	0.41	1.24	0.83	0.62	0.41	1.07	0.71	0.53	0.36	0.82	0.55	0.41	0.27	0.72	0.48	0.36	0.24	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.93	1.28	0.96	0.64	1.85	1.23	0.93	0.62	1.77	1.18	0.89	0.59	1.71	1.14	0.86	0.57	1.55	1.04	0.78	0.52	
WRB	1.48	0.98	0.74	0.49	1.42	0.95	0.71	0.47	1.36	0.91	0.68	0.45	1.27	0.85	0.63	0.42	1.15	0.76	0.57	0.38	
WRC	1.12	0.74	0.56	0.37	1.01	0.67	0.50	0.34	0.89	0.59	0.45	0.30	0.71	0.47	0.35	0.24	0.64	0.43	0.32	0.21	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.86	1.24	0.93	0.62	1.73	1.15	0.86	0.58	1.66	1.11	0.83	0.55	1.63	1.09	0.82	0.54	1.49	0.99	0.75	0.50	
WRB	1.43	0.95	0.72	0.48	1.30	0.87	0.65	0.43	1.17	0.78	0.58	0.39	1.10	0.73	0.55	0.37	1.02	0.68	0.51	0.34	
WRC	1.02	0.68	0.51	0.34	0.83	0.55	0.42	0.28	0.75	0.50	0.38	0.25	0.61	0.41	0.31	0.20	0.57	0.38	0.29	0.19	

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PV-ezRack Commercial Tilt interface spacing table for STEELINE STEEL-RIB 500 (ST28) (Cont.)

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.66	1.10	0.83	0.55	1.66	1.10	0.83	0.55	1.57	1.05	0.79	0.52	1.52	1.01	0.76	0.51	1.35	0.90	0.68	0.45
WRB	1.15	0.77	0.58	0.38	1.15	0.77	0.58	0.38	0.99	0.66	0.50	0.33	0.88	0.59	0.44	0.29	0.78	0.52	0.39	0.26
WRC	0.75	0.50	0.37	0.25	0.75	0.50	0.37	0.25	0.65	0.43	0.32	0.22	0.50	0.33	0.25	0.17	0.44	0.29	0.22	0.15

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.60	1.07	0.80	0.53	1.54	1.03	0.77	0.51	1.48	0.98	0.74	0.49	1.43	0.95	0.71	0.48	1.21	0.81	0.60	0.40
WRB	1.05	0.70	0.52	0.35	0.94	0.63	0.47	0.31	0.83	0.55	0.42	0.28	0.76	0.51	0.38	0.25	0.69	0.46	0.35	0.23
WRC	0.68	0.45	0.34	0.23	0.61	0.41	0.30	0.20	0.54	0.36	0.27	0.18	0.43	0.28	0.21	0.14	0.39	0.26	0.19	0.13

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.55	1.03	0.77	0.52	1.44	0.96	0.72	0.48	1.31	0.87	0.66	0.44	1.24	0.83	0.62	0.41	1.08	0.72	0.54	0.36
WRB	0.95	0.64	0.48	0.32	0.78	0.52	0.39	0.26	0.71	0.47	0.35	0.24	0.66	0.44	0.33	0.22	0.62	0.41	0.31	0.21
WRC	0.62	0.41	0.31	0.21	0.51	0.34	0.25	0.17	0.46	0.31	0.23	0.15	0.37	0.25	0.19	0.12	0.35	0.23	0.17	0.12

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PV-ezRack Commercial Tilt interface spacing table for STEELINE STEEL-RIB 500 (ST28) (Cont.)

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.48	0.98	0.74	0.49	1.48	0.98	0.74	0.49	1.34	0.89	0.67	0.45	1.19	0.79	0.59	0.40	0.98	0.65	0.49	0.33	
WRB	0.83	0.55	0.42	0.28	0.83	0.55	0.42	0.28	0.72	0.48	0.36	0.24	0.64	0.43	0.32	0.21	0.56	0.37	0.28	0.19	
WRC	0.54	0.36	0.27	0.18	0.54	0.36	0.27	0.18	0.46	0.31	0.23	0.15	0.36	0.24	0.18	0.12	0.32	0.21	0.16	0.11	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.40	0.93	0.70	0.47	1.26	0.84	0.63	0.42	1.11	0.74	0.56	0.37	1.02	0.68	0.51	0.34	0.86	0.57	0.43	0.29	
WRB	0.75	0.50	0.37	0.25	0.68	0.45	0.34	0.23	0.60	0.40	0.30	0.20	0.55	0.37	0.28	0.18	0.50	0.33	0.25	0.17	
WRC	0.48	0.32	0.24	0.16	0.44	0.29	0.22	0.15	0.39	0.26	0.20	0.13	0.31	0.21	0.16	0.10	0.28	0.19	0.14	0.09	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.27	0.85	0.64	0.42	1.04	0.69	0.52	0.35	0.94	0.63	0.47	0.31	0.89	0.59	0.44	0.30	0.77	0.51	0.38	0.26	
WRB	0.68	0.46	0.34	0.23	0.56	0.37	0.28	0.19	0.51	0.34	0.25	0.17	0.48	0.32	0.24	0.16	0.45	0.30	0.22	0.15	
WRC	0.45	0.30	0.22	0.15	0.37	0.25	0.18	0.12	0.33	0.22	0.17	0.11	0.27	0.18	0.14	0.09	0.25	0.17	0.13	0.08	

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PV-ezRack Commercial Tilt interface spacing table for **REVOLUTION MAXLINE 340**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
 Type of Interface ER-I-34
 Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.88	1.25	0.94	0.63	1.88	1.25	0.94	0.63	1.78	1.18	0.89	0.59	1.70	1.13	0.85	0.57	1.58	1.06	0.79	0.53	
WRB	1.32	0.88	0.66	0.44	1.32	0.88	0.66	0.44	1.14	0.76	0.57	0.38	1.01	0.67	0.50	0.34	0.88	0.59	0.44	0.29	
WRC	0.84	0.56	0.42	0.28	0.84	0.56	0.42	0.28	0.72	0.48	0.36	0.24	0.56	0.37	0.28	0.19	0.49	0.33	0.25	0.16	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.81	1.21	0.90	0.60	1.74	1.16	0.87	0.58	1.66	1.11	0.83	0.55	1.55	1.03	0.77	0.52	1.39	0.93	0.70	0.46	
WRB	1.19	0.79	0.60	0.40	1.07	0.71	0.53	0.36	0.95	0.63	0.47	0.32	0.86	0.57	0.43	0.29	0.78	0.52	0.39	0.26	
WRC	0.76	0.51	0.38	0.25	0.68	0.46	0.34	0.23	0.61	0.41	0.30	0.20	0.48	0.32	0.24	0.16	0.43	0.29	0.22	0.14	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.75	1.16	0.87	0.58	1.58	1.06	0.79	0.53	1.42	0.95	0.71	0.47	1.33	0.89	0.67	0.44	1.23	0.82	0.62	0.41	
WRB	1.08	0.72	0.54	0.36	0.88	0.59	0.44	0.29	0.79	0.53	0.40	0.26	0.75	0.50	0.37	0.25	0.69	0.46	0.35	0.23	
WRC	0.69	0.46	0.35	0.23	0.57	0.38	0.28	0.19	0.52	0.34	0.26	0.17	0.42	0.28	0.21	0.14	0.39	0.26	0.19	0.13	

Refer to note 3 to find out installation exclusion zones. This certificate document is only valid for installations on top of the purlins. If you cannot meet the conditions provided by the tables above (relating to installations on top of the purlins) or if you require installations off the purlins, please contact engineering@clenergy.com.au.

PV-ezRack Commercial Tilt interface spacing table for **REVOLUTION MAXLINE 340 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.40	0.93	0.70	0.47	1.40	0.93	0.70	0.47	1.20	0.80	0.60	0.40	1.06	0.71	0.53	0.35	0.93	0.62	0.47	0.31
WRB	0.78	0.52	0.39	0.26	0.78	0.52	0.39	0.26	0.68	0.45	0.34	0.23	0.60	0.40	0.30	0.20	0.53	0.35	0.27	0.18
WRC	0.51	0.34	0.25	0.17	0.51	0.34	0.25	0.17	0.44	0.29	0.22	0.15	0.34	0.23	0.17	0.11	0.30	0.20	0.15	0.10

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.26	0.84	0.63	0.42	1.13	0.75	0.57	0.38	0.99	0.66	0.50	0.33	0.91	0.61	0.45	0.30	0.82	0.55	0.41	0.27
WRB	0.71	0.47	0.35	0.24	0.64	0.43	0.32	0.21	0.56	0.37	0.28	0.19	0.52	0.35	0.26	0.17	0.47	0.31	0.23	0.16
WRC	0.46	0.31	0.23	0.15	0.42	0.28	0.21	0.14	0.37	0.25	0.18	0.12	0.29	0.20	0.15	0.10	0.27	0.18	0.13	0.09

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.14	0.76	0.57	0.38	0.93	0.62	0.47	0.31	0.84	0.56	0.42	0.28	0.78	0.52	0.39	0.26	0.73	0.49	0.37	0.24
WRB	0.65	0.43	0.32	0.22	0.53	0.35	0.27	0.18	0.48	0.32	0.24	0.16	0.45	0.30	0.23	0.15	0.42	0.28	0.21	0.14
WRC	0.42	0.28	0.21	0.14	0.35	0.23	0.17	0.12	0.32	0.21	0.16	0.11	0.25	0.17	0.13	0.08	0.24	0.16	0.12	0.08

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PV-ezRack Commercial Tilt interface spacing table for **REVOLUTION MAXLINE 340 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
 Type of Interface ER-I-34
 Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	0.99	0.66	0.50	0.33	0.99	0.66	0.50	0.33	0.85	0.57	0.43	0.28	0.75	0.50	0.38	0.25	0.66	0.44	0.33	0.22
WRB	0.56	0.37	0.28	0.19	0.56	0.37	0.28	0.19	0.48	0.32	0.24	0.16	0.43	0.29	0.22	0.14	0.38	0.26	0.19	0.13
WRC	0.36	0.24	0.18	0.12	0.36	0.24	0.18	0.12	0.32	0.21	0.16	0.11	0.25	0.16	0.12	0.08	0.21	0.14	0.11	0.07

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	0.89	0.59	0.45	0.30	0.80	0.53	0.40	0.27	0.71	0.47	0.35	0.24	0.65	0.44	0.33	0.22	0.58	0.39	0.29	0.19
WRB	0.51	0.34	0.25	0.17	0.46	0.31	0.23	0.15	0.41	0.27	0.20	0.14	0.38	0.25	0.19	0.13	0.34	0.23	0.17	0.11
WRC	0.33	0.22	0.17	0.11	0.30	0.20	0.15	0.10	0.27	0.18	0.13	0.09	0.21	0.14	0.11	0.07	0.19	0.13	0.10	0.06

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	0.82	0.54	0.41	0.27	0.66	0.44	0.33	0.22	0.60	0.40	0.30	0.20	0.56	0.37	0.28	0.19	0.52	0.35	0.26	0.17
WRB	0.46	0.31	0.23	0.15	0.38	0.26	0.19	0.13	0.35	0.23	0.17	0.12	0.33	0.22	0.17	0.11	0.30	0.20	0.15	0.10
WRC	0.30	0.20	0.15	0.10	0.25	0.16	0.12	0.08	0.22	0.15	0.11	0.07	0.19	0.12	0.09	0.06	0.17	0.12	0.09	0.06

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PV-ezRack Commercial Tilt interface spacing table for **STEELINE LOKDECK 680**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
Type of Interface ER-I-34
Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.81	1.20	0.90	0.60	1.81	1.20	0.90	0.60	1.54	1.03	0.77	0.51	1.36	0.90	0.68	0.45	1.22	0.82	0.61	0.41	
WRB	1.02	0.68	0.51	0.34	1.02	0.68	0.51	0.34	0.88	0.58	0.44	0.29	0.78	0.52	0.39	0.26	0.68	0.45	0.34	0.23	
WRC	0.65	0.43	0.32	0.22	0.65	0.43	0.32	0.22	0.56	0.37	0.28	0.19	0.43	0.29	0.22	0.14	0.38	0.25	0.19	0.13	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.62	1.08	0.81	0.54	1.44	0.96	0.72	0.48	1.26	0.84	0.63	0.42	1.15	0.77	0.57	0.38	1.07	0.71	0.53	0.36	
WRB	0.92	0.62	0.46	0.31	0.82	0.55	0.41	0.27	0.72	0.48	0.36	0.24	0.67	0.45	0.33	0.22	0.60	0.40	0.30	0.20	
WRC	0.58	0.39	0.29	0.19	0.52	0.35	0.26	0.17	0.47	0.31	0.23	0.16	0.37	0.25	0.19	0.12	0.33	0.22	0.17	0.11	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$0^\circ < \alpha < 10^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	1.46	0.97	0.73	0.49	1.18	0.79	0.59	0.39	1.05	0.70	0.53	0.35	0.99	0.66	0.49	0.33	0.95	0.63	0.47	0.32	
WRB	0.83	0.55	0.42	0.28	0.68	0.45	0.34	0.23	0.62	0.41	0.31	0.21	0.58	0.38	0.29	0.19	0.54	0.36	0.27	0.18	
WRC	0.53	0.35	0.27	0.18	0.44	0.29	0.22	0.15	0.39	0.26	0.20	0.13	0.32	0.21	0.16	0.11	0.30	0.20	0.15	0.10	

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PV-ezRack Commercial Tilt interface spacing table for **STEELINE LOKDECK 680 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
 Type of Interface ER-I-34
 Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		3																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	1.04	0.69	0.52	0.35	1.04	0.69	0.52	0.35	0.89	0.59	0.44	0.30	0.79	0.52	0.39	0.26	0.72	0.48	0.36	0.24
WRB	0.61	0.41	0.30	0.20	0.61	0.41	0.30	0.20	0.52	0.35	0.26	0.17	0.46	0.31	0.23	0.15	0.41	0.27	0.20	0.14
WRC	0.39	0.26	0.20	0.13	0.39	0.26	0.20	0.13	0.34	0.23	0.17	0.11	0.26	0.17	0.13	0.09	0.23	0.16	0.12	0.08

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2.5																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	0.93	0.62	0.47	0.31	0.84	0.56	0.42	0.28	0.73	0.49	0.37	0.24	0.67	0.45	0.34	0.22	0.63	0.42	0.32	0.21
WRB	0.55	0.36	0.27	0.18	0.49	0.33	0.25	0.16	0.44	0.29	0.22	0.15	0.40	0.27	0.20	0.13	0.36	0.24	0.18	0.12
WRC	0.35	0.24	0.18	0.12	0.32	0.21	0.16	0.11	0.28	0.19	0.14	0.09	0.23	0.15	0.11	0.08	0.21	0.14	0.10	0.07

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$10 \leq \alpha < 15^\circ$																		
		2																		
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$		
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner
WRA	0.84	0.56	0.42	0.28	0.69	0.46	0.34	0.23	0.62	0.41	0.31	0.21	0.59	0.39	0.29	0.20	0.56	0.37	0.28	0.19
WRB	0.50	0.33	0.25	0.17	0.41	0.27	0.20	0.14	0.37	0.25	0.18	0.12	0.35	0.23	0.17	0.12	0.32	0.22	0.16	0.11
WRC	0.32	0.22	0.16	0.11	0.27	0.18	0.13	0.09	0.24	0.16	0.12	0.08	0.20	0.13	0.10	0.07	0.18	0.12	0.09	0.06

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PV-ezRack Commercial Tilt interface spacing table for **STEELINE LOKDECK 680 (Cont.)**

Type of Rail ER-R-ECO (Refer to note 11 for other compatible rails)
 Type of Interface ER-I-34
 Solar Panel Dimension 2 m x 1 m (Refer to note 27 for other panel sizes)

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		3																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	0.73	0.49	0.37	0.24	0.73	0.49	0.37	0.24	0.63	0.42	0.31	0.21	0.56	0.38	0.28	0.19	0.52	0.34	0.26	0.17	
WRB	0.43	0.29	0.22	0.14	0.43	0.29	0.22	0.14	0.38	0.25	0.19	0.13	0.34	0.23	0.17	0.11	0.29	0.19	0.15	0.10	
WRC	0.28	0.19	0.14	0.09	0.28	0.19	0.14	0.09	0.25	0.16	0.12	0.08	0.19	0.12	0.09	0.06	0.17	0.11	0.08	0.06	

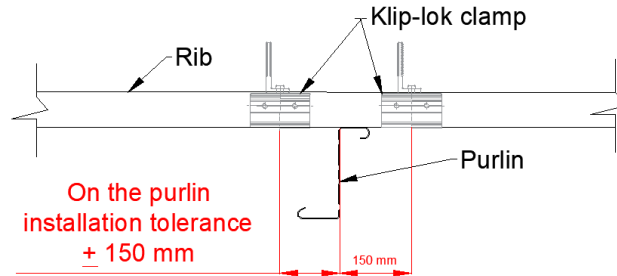
ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2.5																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	0.67	0.44	0.33	0.22	0.59	0.40	0.30	0.20	0.53	0.35	0.26	0.18	0.48	0.32	0.24	0.16	0.45	0.30	0.23	0.15	
WRB	0.39	0.26	0.20	0.13	0.35	0.24	0.18	0.12	0.32	0.21	0.16	0.11	0.29	0.19	0.15	0.10	0.26	0.17	0.13	0.09	
WRC	0.25	0.17	0.13	0.08	0.23	0.15	0.12	0.08	0.21	0.14	0.10	0.07	0.17	0.11	0.08	0.06	0.15	0.10	0.07	0.05	

ANGLE TO THE HORIZONTAL TC BUILDING HEIGHT (m)		$\alpha = 15^\circ$																			
		2																			
		≤ 5				$5 < H \leq 10$				$10 < H \leq 15$				$15 < H \leq 20$				$20 < H \leq 30$			
	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	Internal	Intermediate	Edge	Corner	
WRA	0.60	0.40	0.30	0.20	0.50	0.33	0.25	0.17	0.44	0.30	0.22	0.15	0.42	0.28	0.21	0.14	0.41	0.27	0.20	0.14	
WRB	0.36	0.24	0.18	0.12	0.29	0.19	0.15	0.10	0.27	0.18	0.13	0.09	0.25	0.17	0.13	0.08	0.23	0.15	0.12	0.08	
WRC	0.23	0.15	0.12	0.08	0.19	0.13	0.10	0.06	0.18	0.12	0.09	0.06	0.15	0.10	0.07	0.05	0.13	0.09	0.07	0.04	

Refer to note 3 to find out installation exclusion zones. This certificate document is only valid for installations on top of the purlins. If you cannot meet the conditions provided by the tables above (relating to installations on top of the purlins) or if you require installations off the purlins, please contact engineering@clenergy.com.au.

General Notes

Note 1. Installation to be done only on top of the purlins with a maximum tolerance of 150 mm.



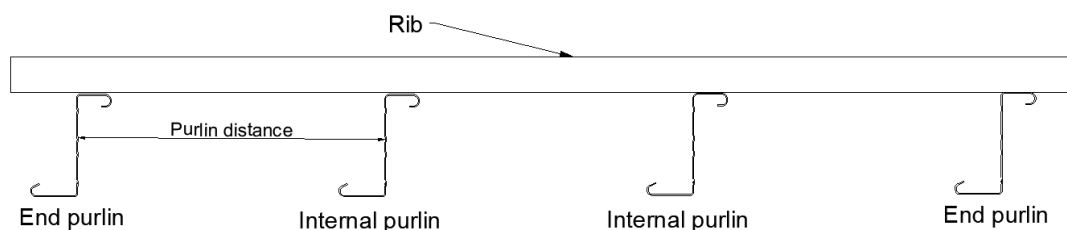
Note 2. Roof pitch between 1.5° and 5°.

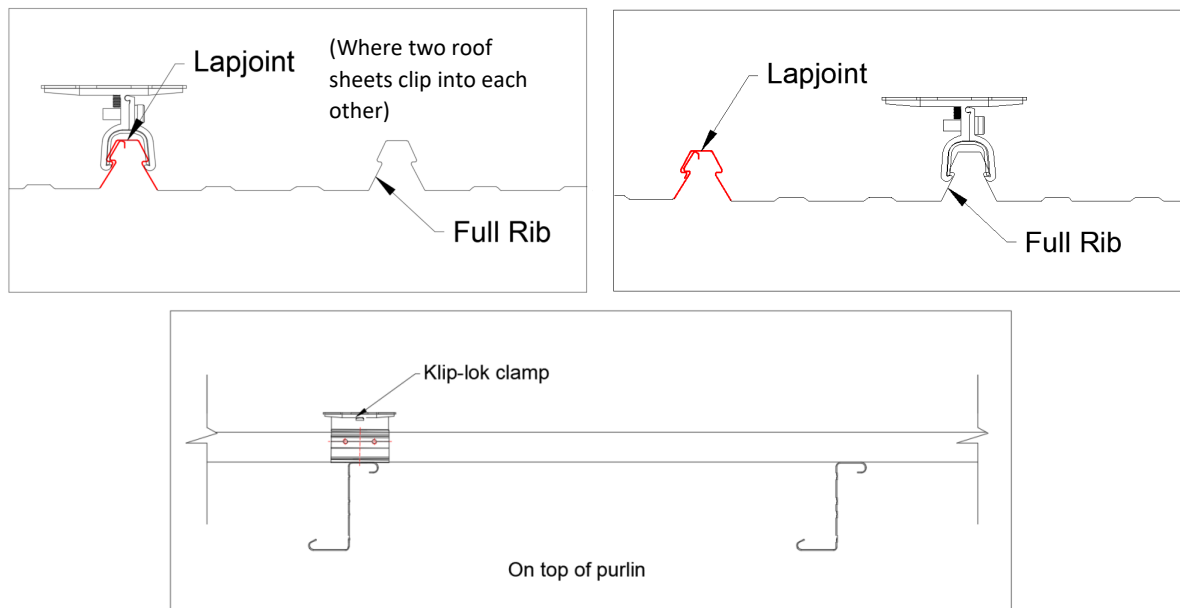
Note 3. Exclusion for installation of klip-lok clamps depending on the roof sheet type to be as per the following table.

Roof Sheet type	Exclusions	Test Report No.
Lysaght KLIP-LOK 700 Classic	N/A	MT-19/0633-A
Lysaght KLIP-LOK 700 Hi-Strength	N/A	MT-11/023
Lysaght KLIP-LOK 406	N/A	MT-17/001-A
Stramit Speed Deck Ultra	N/A	MT-11/023
Fielders Kingklip 700	N/A	MT-11/280
Stratco Topdeck 700	N/A	MT-17/001-B and MT-19/1007
Lysaght Longline 305	N/A	MT-13/133
Metroll Metlok 700	Exclude lapjoints	MT-19/0633-B
Stramit Speed Deck 500	N/A	MT-19/0762
Rev-klip 700	N/A	MT-19/1018-A
Metroll Metlok 500	Exclude lapjoints	7530/MJ
Steeline Steel-Rib 500	N/A	MT-19/1090-B
Revolution Maxline 340	N/A	MT-19/1018-B
Steeline Lokdeck 680	N/A	20-0028

Contact Clenergy for a project specific assessment if you cannot comply the above exclusions.

Refer to the below pictures to find clamp position, rib type and location on respective roof sheet.





Note 4. Lysaght Longline 305 fixing spacings were calculated based on the capacity of Clenergy’s ER-I-29 clamp and the roof sheet. When using Clenergy’s ER-I-34 clamp, Longline 305 fixing spacings shall be reduced as follows:

Wind Region A	Wind Region B	Wind Region C
-80%	-80%	-70%

Note 5. Exclusion for installation of Clenergy’s ER-I-34 on Lysaght Longline 305 roof sheet to be as per the below table

Roof Sheet type	Exclusions	Test Report No.
Lysaght Longline 305	• Exclude lapjoints	MT- 20-0661

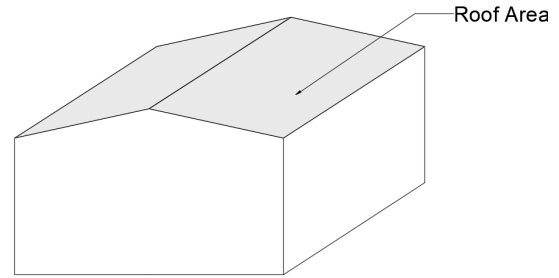
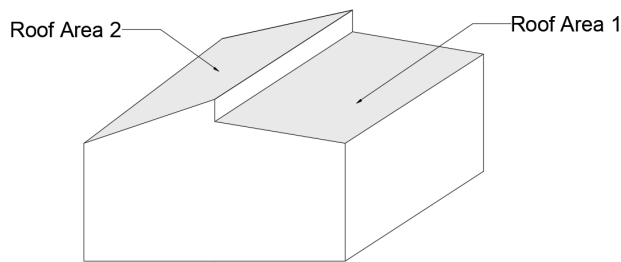
Note 6. Rails cannot run parallel to the ribs unless the applicable table spacings are equal or larger the purlin distance. Contact Clenergy if you are unable to comply with this condition or any of the installation specifications listed on this document.

Note 7. The spacing information in this document has been designed to be compliant with the capacity of the below items per roof area:

- Klip-lok clamp
- Roofing sheet
- Fixing clip between roofing sheet to purlin

Prior to carrying the PV installation, it is recommended to check that the roof sheet has been installed according to the manufacturers specifications and there are no missing clips.

Roof area is defined as a single surface that has no height variance.

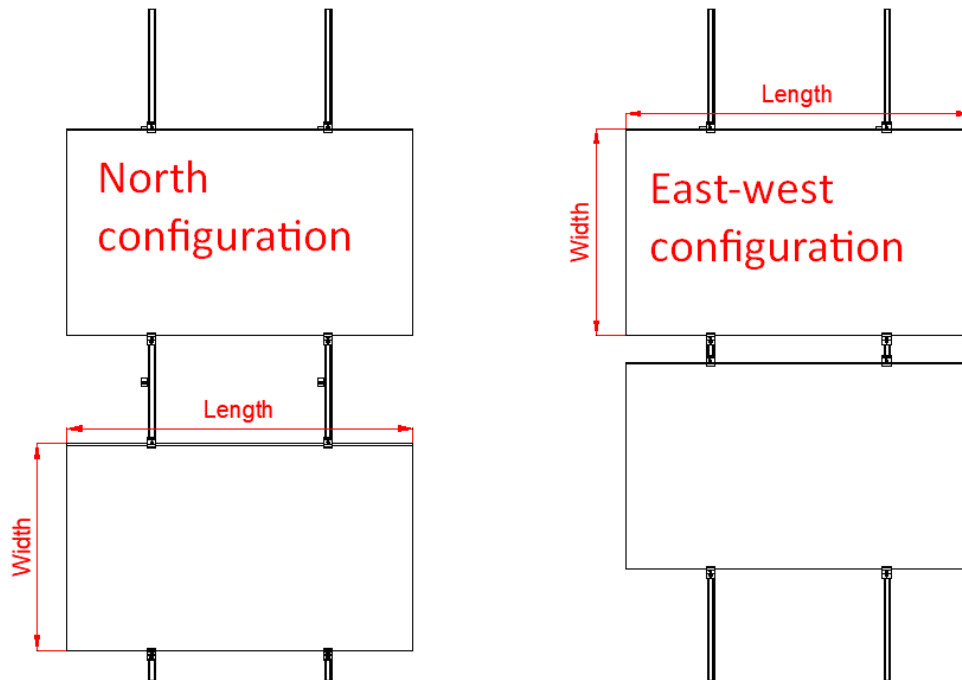


Note 8. This document does not cover the following:

- Building frame capacity
- Off the purlin installation

Note 9. This certificate only covers the assessment of the Clenergy PV mounting system, including the components listed on note 4. Assessment of the roof structure, PV panels and other fixings are to be checked by the installer/contractor.

Note 10. Panels to be installed only as per below configuration



Note 11. The following components are satisfied for use according to AS/NZS 1664.1:1997-Amdt 1:1999 and AS/NZS 1170.2:2011 Amdt 4-2016.

Components	Part No.	Description
ECO-Rail	ER-R-ECO/XXXX	ECO Rail
Splice	ER-SP-ECO	PV-ezRack Splice for ECO rail
Australian Made Mill Finish ECO Rail	R-ECO/XXXX/AUMF	PV-ezRack Australian Made Mill Finish ECO Rail
Black ECO-Rail	ER-R-ECO/XXXX/BA	Black ECO Rail

Components	Part No.	Description
Black Splice ECO Rail	ER-SP-ECO/BA	Splice ECO Rail Black
Roof bracket	ER-I-09	Klip-lok Bracket
Roof bracket	ER-I-09/100/45	Klip-lok Bracket
Roof bracket	ER-I-29/AU	Klip-lok Bracket
Roof bracket	ER-I-32/AU	Klip-lok Bracket
Roof bracket	ER-I-34	Universal Klip-lok Bracket
Black Roof bracket	ER-I-09/BA	Black Klip-lok Bracket
Black Roof bracket	ER-I-09/100/45/BA	Black Klip-lok Bracket
Black Roof bracket	ER-I-29/BA	Black Klip-lok Bracket
Black Roof bracket	ER-I-32/BA	Black Klip-lok Bracket
Black Roof bracket	ER-I-34/BA	Universal Klip-lok Bracket
Interface	ER-I-05	Tin Interface
Interface	ER-I-05/CM	Tin Interface with Click Module
Interface	ER-I-05A/EZC/ECO	Tin Interface with ezClick
Black Interface	ER-I-05/BA	Black Tin Interface
Cross Connector Clamp	CRC-R/ECO and CRC-R/ECO-ZBW	Cross Connector Clamp
Front Leg	FL-COMT/Z/G/10	Commercial Tilt 10° Front Leg
Rear Leg	RL-COMT/Z/G/10	Commercial Tilt 10° Rear Leg
Black Front Leg	FL-COMT/Z/G/10/BA	Black Commercial Tilt 10° Front Leg
Black Rear Leg	RL-COMT/Z/G/10/BA	Black Commercial Tilt 10° Rear Leg
Roof bracket	ER-I-34/CRC	Universal Klip-lok Bracket Pre-assembly with Cross Connection Clamp
Roof bracket	ER-I-34/05A/EZC	Universal Klip-lok Bracket Pre-assembly with Tin Interface

Components	Part No.	Description
Roof bracket	ER-I-34/CRC/BA	Black Universal Klip-lok Bracket Pre-assembly with Cross Connection Clamp
Roof bracket	ER-I-34/05A/EZC/BA	Black Universal Klip-lok Bracket Pre-assembly with Tin Interface

(*) Subject to the panel manufacturer's installation guide.

Note 12. For Terrain Category (TC) definition, please refer to clause 4.2.1 of AS/NZS 1170.2:2011 (R2016).

Note 13. Wind Direction Multiplier (Md) taken as 1.0. Refer to clause 3.3 of AS/NZS 1170.2:2011 (R2016) for more information.

Note 14. Shielding Multiplier (Ms) taken as 1.0. Refer to clause 4.3 of AS/NZS 1170.2:2011 (R2016) for more information.

Note 15. Topographic Multiplier (Mt) taken as 1.0. Refer to clause 4.4 of AS/NZS 1170.2:2011 (R2016) for more information.

Note 16. This certificate cannot be used if the site is located on a hill, ridge or escarpment. Contact Clenergy if the aforementioned condition is met on site.

Note 17. Clamping zone of the PV panels shall be according to the manufacturer's specifications.

Note 18. Capacities checked and compared against testing data from Clenergy Australia and NATA certified testing.

Note 19. Maximum permitted rail overhang for fixing spacings equal or over 700 mm to be 150 mm. For fixing spacings less than 700 mm, rail overhang should be 50 mm. This applies to standard and East-West installations. Refer to figure 2 and 3 for more information.

Note 20. Tilt leg should not sit on top of overhang. If required, a maximum 5% of the fixing spacing can be applied.

Note 21. Excess rail shall be cut accordingly. Refer to installation manual for more information.

Note 22. Fixing spacings are based on a row spacing of 400 mm (Figure 1 and 2). Reduction and increase factors to be applied for other row spacings as per the below table.

Row spacing	Spacing +/- (North facing)	Spacing +/- (East-West)
0 mm to \leq 200 mm	- 20 %	- 20 %
< 200 to < 400 mm	-10%	-10%
\leq 400 mm to \leq 650 mm	Apply the same table spacings	Apply the same table spacings
> 650 mm	+20%	+ 10 %

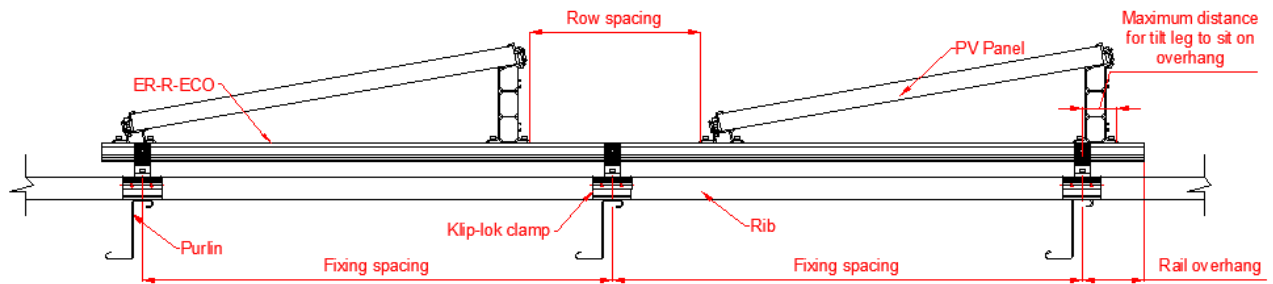


Figure 1. COMT installation configuration (reference only)

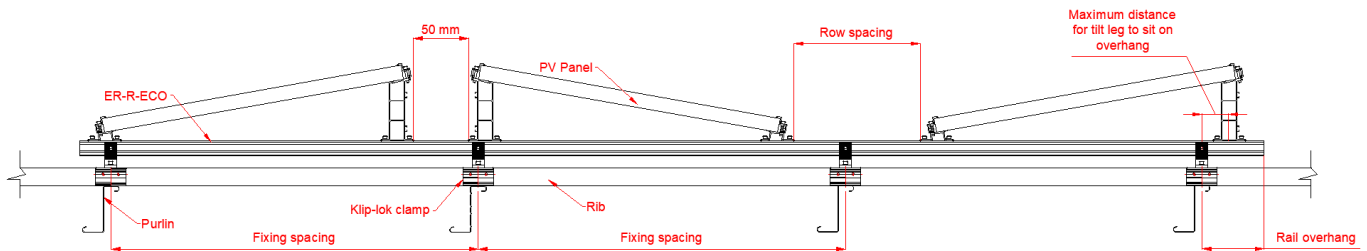


Figure 2. E-W COMT installation configuration (reference only)

Note 23. From the date of publication onwards, any amendment made to any of the above-mentioned Standards will make this report outdated and a new one will have to be released, unless the amendment has no implications on this certificate.

Note 24. All components from Clenergy must be installed according to manufacturer's specification and the instructions shown in the relevant installation manual. Please check the Clenergy Australia website or contact them for access to the most recent installation manuals.

Note 25. Only hip and gable roofs installations are covered on this certificate. Contact Clenergy if you are planning to install on a different roof type such as curved, multi-span (pitched and saw-tooth), mansard, circular bins, silos, tanks, pitched free roofs, troughed free roofs, hypar free roofs, canopies, awnings and cantilevered roofs.

Note 26. No consideration has been taken on the effect of snow loads. In case the roof is located in a snow prone area, a project specific design must be completed.

Note 27. This Engineering report is based on 2 m x 1 m panels and two rails per panel. However, for different panel sizes a percentage increase or decrease can be applied on all interface spacings as shown on the following table.

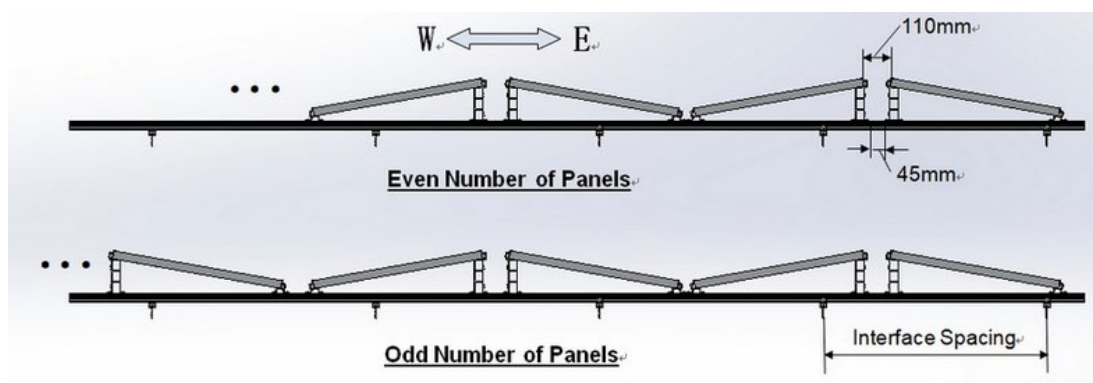
Number of rails per panel	Panel length (mm)	Spacing +/- W.R – A & B	Spacing +/- W.R – C & D
2 rails	≤ 1700	+ 6 %	+ 10 %
3 rails	≤ 1700	+ 12 %	+ 18 %
2 rails	≤ 1800	+ 4 %	+ 7 %
3 rails	≤ 1800	+ 12 %	+ 15 %
2 rails	≤ 1900	0 %	+ 5 %
3 rails	≤ 1900	+ 10 %	+ 15 %

Number of rails per panel	Panel length (mm)	Spacing +/-	
		W.R – A & B	W.R – C & D
2 rails	≤ 2000	0 %	0 %
3 rails	≤ 2000	+ 10 %	+ 15 %
2 rails	≤ 2100	- 10 %	- 6 %
3 rails	≤ 2100	+ 7 %	+ 12 %
2 rails	≤ 2200	- 18 %	- 12 %
3 rails	≤ 2200	+ 5 %	+ 10 %
2 rails	≤ 2300	- 20 %	- 12 %
3 rails	≤ 2300	+ 5 %	+ 10 %
2 rails	≤ 2400	- 25 %	- 15 %
3 rails	≤ 2400	+ 5 %	+ 10 %

Note 28. Panel width cannot exceed 1.20 m for any of the above panel length dimensions. Maximum panel weight of 15 kg/m²

Note 29. If the installation is located in ISO corrosivity category C4 reduce the interface spacing by 5%. If the installation is located in ISO corrosivity category C5 reduce the interface spacing by 25%. For more details refer to Clenergy’s warranty document.

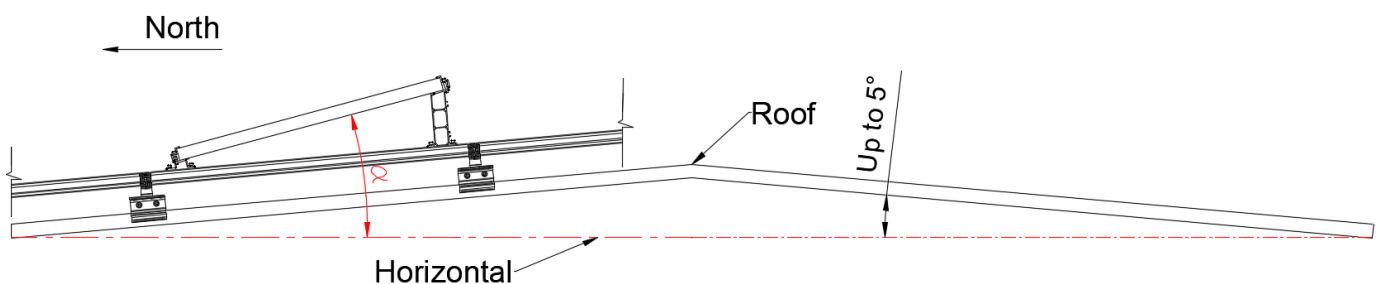
Note 30. Same fixing tables on this document can be used for East-West systems.

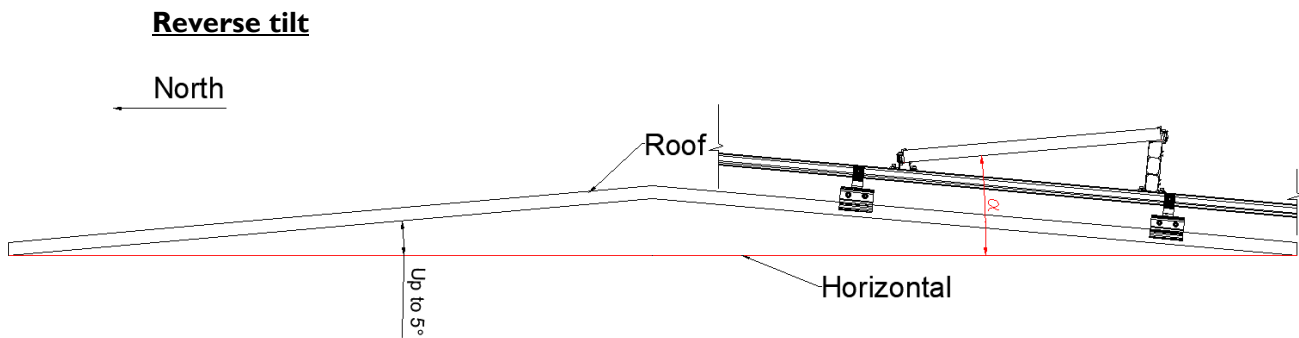


Note 31. Base rail between panel rows should run continuous from the first panel row to the last.

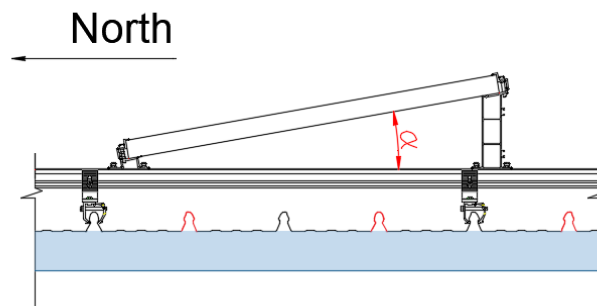
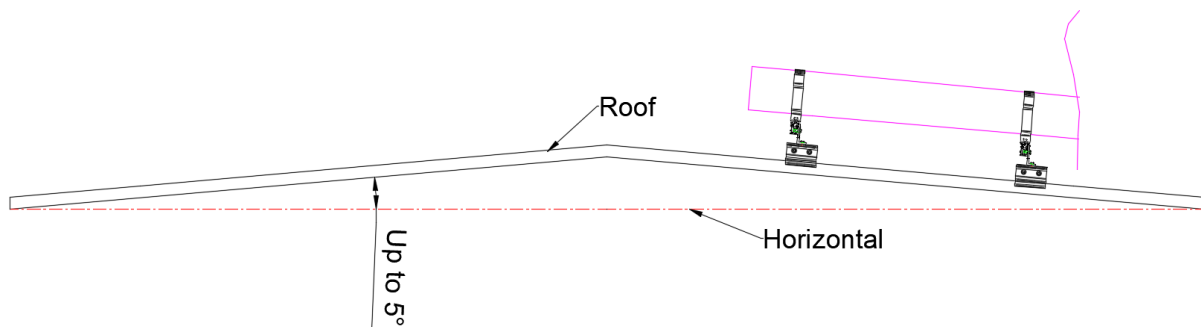
Note 32. Final tilt “α” identification as per below

Standard tilt





ECO – Rail perpendicular to ribs



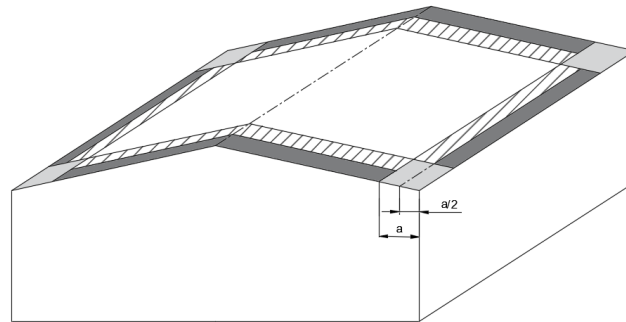
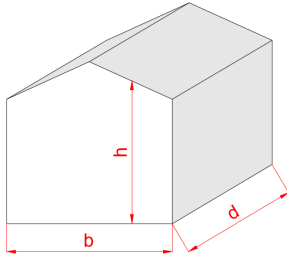
Note 33. The most conservative spacing has to be used if one panel or panel row fall between two roof zones.

Note 34. Roof Zone definition to be calculated as per below:

Step 1. Determine building height (h), width (b) and length (d).





Step 2. Choose the lowest value between "h", "b x 0.2" and "d x 0.2".

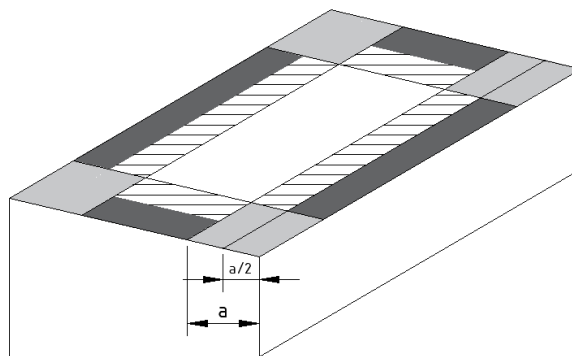
Step 3. The lowest value on Step 2, equates to a.



Roof Pitch < 5°

Legend:

-  Internal Zone
-  Intermediate Zone
-  Edge Zone
-  Corner Zone



Flat/Mono – Slope Roof < 5°

Example for Klip-lok tilted systems

- Wind Region A
- Terrain Category: 2.5
- Building height: 5 m
- Roof pitch: 3°
- Panel tilt: 10°
- Normal tilt (not reverse tilt)
- Panel rail orientation: perpendicular to purlins
- Purlin spacing: 1000 mm
- Roof Sheet: Lysaght Klip-lok 700 Classic
- Panel dimension: 2 m x 1 m
- Clamp spacing as per below:
 - Internal: 1560 mm
 - Intermediate: 1040 mm
 - Edge: 780 mm
 - Corner: 520 mm

- Exclusions as per **Note 3** for Lysaght Klip-lok 700 Classic

Installation only feasible on top of the purlins, therefore:

- Internal zone: 1000 mm (with a maximum tolerance of 150 mm)
- Intermediate zone: 1000 mm (with a maximum tolerance of 150 mm)
- Edge zone: Not feasible
- Corner zone Not feasible