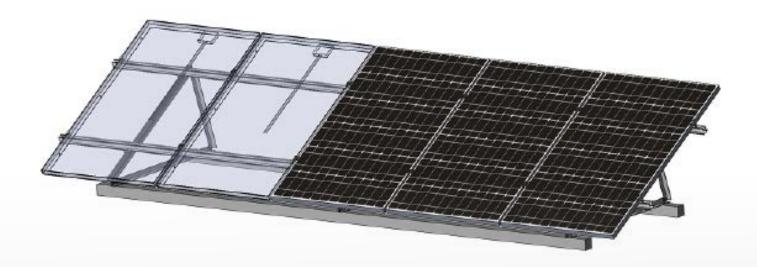


SolarTripod Lite

Installation Guide V 1.1 NO.: PZ35-IM02-11



Last Updated - May. 2022



Production Introduction

PV-ezRack[®] SolarTripod Lite is a pre-assembled mounting system for residential and commercial flat roof. Manufactured from aluminium alloy ensures aesthetic appearance, lightweight and excellent corrosion resistance.

Please review this manual thoroughly prior to installing PV-ezRack[®] SolarTripod Lite. This manual provides supporting documentation for building permit applications relating to PV-ezRack[®] SolarTripod Lite.

When installed in accordance with this guide, the PV-ezRack[®] SolarTripod Lite parts will be structurally adequate. During installation please comply with the appropriate occupational health and safety regulations. Please also pay attention to other relevant regulations of your local region. Please check that you are using the latest version of the installation manual by contacting Clenergy via email at tech@clenergy.com.au, or by contacting your local distributor.

Product Warranty: Please refer <u>PV-ezRack® Product Warranty</u> on our website.

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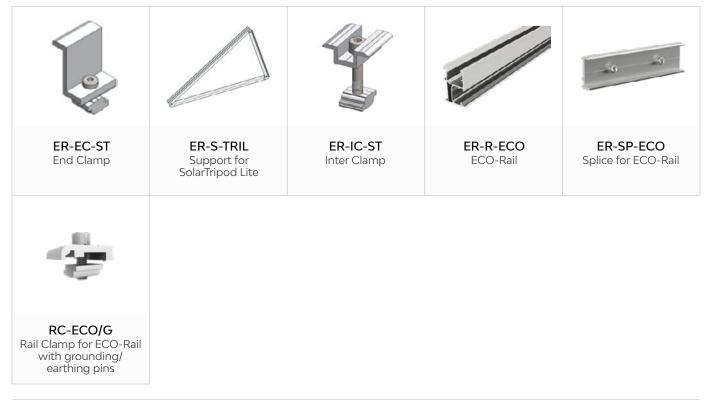
Tools and Components

Tools

		State		and the same a
Allen Key 6&8 mm	Adjustable Spanner	Torque Wrench	5m Tape	Marker Pen
String				

Note: the above tools are used for mounting system installation only and not included in Clenergy's supply scope. Any tools for electronic parts installation please consult system installer.

Components



- Tools and Components -



System Overview

System overview of SolarTripod Lite



Stainless Steel Fastener Installation Precautions:

Improper operation may lead to bolt and nut deadlock. Follow the steps below to reduce this risk.

1. Friction coefficient reduction

- (1) Ensure the thread surface is clean and free of all dirt or contaminants.
- (2) Apply lubricant (grease or #40 engine oil) to fasteners prior to tightening to avoid galling or seizing in the threads.

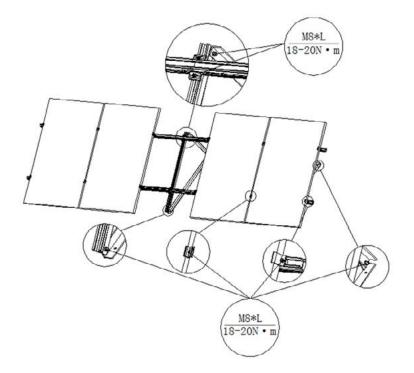
2. General installation instructions

- (1) Apply force to fasteners in the direction of the axis of the thread.
- (2) Apply force uniformly and maintain required torque.
- (3) Professional tools and tool belts are recommended.
- (4) Avoid using electric tools for final tightening.
- (5) Avoid working at high temperatures.



Safe Torques

Please refer to the safe torques defined in this guide as shown below. If power tools are required, Clenergy recommends only low-speed tools. High-speed and impact drivers increase the risk of bolt galling (deadlock). If deadlock occurs and you need to cut the fasteners, please ensure that there is no load on the fastener before cutting. Avoid damaging the anodized or galvanized surfaces.



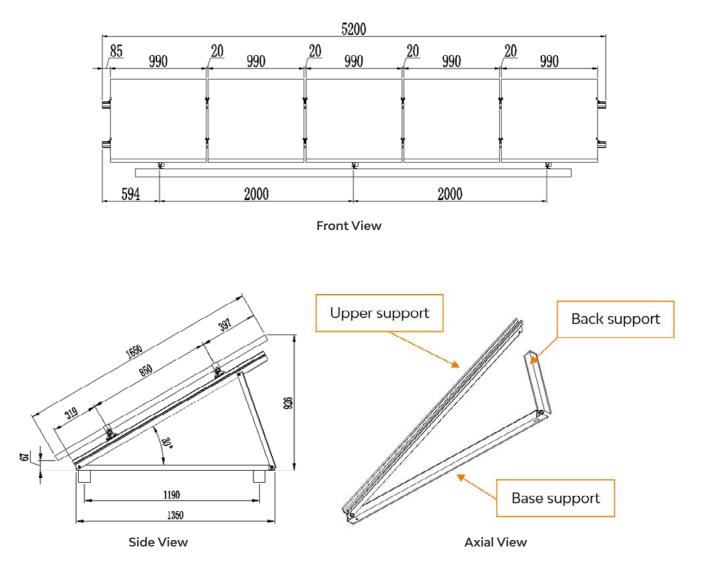
4. These steps should be applied for every stainless steel nut and bolt assembly.

Installation Dimensions

All drawings and dimensions in this installation guide are for a generic reference. The PV-ezRack[®] SolarTripod Lite is optimized to suit the specific conditions for each project and documented in a construction drawing. As a result, major components of the Clenergy PV-ezRack[®] SolarTripod Lite may be provided in section sizes and lengths that vary from those shown in this guide. The installation process detailed in this instruction guide remains the same regardless of the component size. If you need to perform any on-site modifications or alteration of the system in a way that differs from the construction drawing, please provide marked up drawings/sketches for Clenergy's review prior to modification for comment and approval.



Installation Planning



Use PV modules 1650x990x40 (1 row*5 arrays; installation angle is 30°) as example to illustrate how to install PV-ezRack® SolarTripod Lite. All dimensions relating to engineering have to conform to technical drawings for specific project.



Installation Instructions

Install Support for SolarTripod Lite

According to installation planning, unfold the Support for SolaTripod Lite, and use M8 washer, spring washer and nut to fix Base Support on position to be installed as shown in Figure 1 and 2. Do not fasten the bolts tightly for easy adjustment.

Notes:

1. In the fixation scheme of the tripod, bolts for fixing Base support can be embedded ones or expansion ones and its type and length shall be determined according to actual situation of project.

2. Other fixation methods of tripod are determined according to actual situation of project.

Recommended torque: 18-20 N·m for M8 bolt

Use bolt M8*25, M8 plain washer, washer and nut to connect Back Support and Upper Support, and fasten tightly. And then fasten other bolts tightly as shown in Figure 3.

Recommended torque: 18-20 N·m. for M8 bolt

Note:

The direction of all M8*25 bolt heads are as same as installed bolt heads on Base support of Support for Solar Tripod Lite.

Repeat the above steps to fix other Supports for Tripod Lite of the same unit. Adjust installation position of all Supports to guarantee lower end faces of Upper Support are on the same line and installation faces of Upper Support are on the surface of same height. Fasten all bolts tightly as shown in Figure 4.

Recommended torque: 18-20 N·m. for M8 bolt





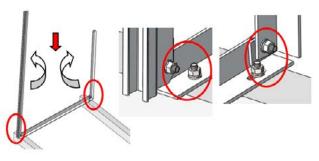


Figure 2

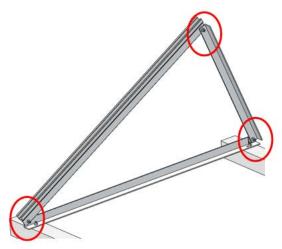


Figure 3







ECO-Rail Installation

Use Splice for ECO-Rail to connect ECO-Rails and fasten with M8 bolt assemblies tightly as shown in Figure 5.

Recommended torque :18-20 N·m. for M8 bolt

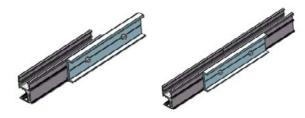


Figure 5

Use Rail Clamp for ECO-Rail or with grounding/earthing pins to fix the connected ECO-Rail on the Upper Support and fasten bolts tightly as shown in Figure 6.

Recommended torque: 18-20 N·m for M8 bolt



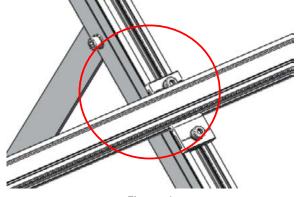


Figure 6



Figure 7



PV Module Installation

According to engineering drawing, place the first PV module on appropriate position. Slide the End Clamp and Inter Clamp tightly against the PV module and fasten them as shown in Figure 8.

Recommended torque for M8 bolts is 18 ~20 N·m.







Figure 8

Repeat above operation to install other PV modules one by one. The whole system is completed as shown in Figure 9.



Figure 9



Certification





Relationships built on trust

Gamcorp (Melbourne) Pty Ltd A.C.N 141 076 904 A.B.N 73 015 060 240 www.gamcorp.com.au Email: melbourne@gamcorp.com.au Suite 4, 346 Ferntree Gully Rd, Notting Hill VIC 3149. Tel: 03 9543 2211 Fax: 03 9543 4046

Our Ref: 3918 Rev.1/K.Z

6 December 2017

Clenergy Australia Ground Floor 10 Duerdin St, Clayton, VIC 3168 Australia



PV Array Frame Engineering Certification

Installation of Clenergy PV-ezRack Solar Tripod Light with ER-R-ECO Rails

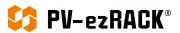
Gamcorp (Melbourne) Pty Ltd, being Structural Engineers within the meaning of Australian Building Regulations, have carried out a structural design check of Clenergy PV-ezRack Solar Tripod Light installation within Australia. The design check has been based on the information and the schematic drawings of the system and its components provided by Clenergy Australia.

We find the Installation of Clenergy PV-ezRack Solar Single Tripod Light for Australian use to be structurally sufficient based on the following conditions:

- Wind loads to AS/NZ1170.2:2011 Wind region A, B, C, D Wind terrain category 1.5, 2, 2.5 & 3
- Wind average recurrence interval of 200 years
- Maximum building height 20m The maximum PV panel dimensions to be 2000mm x 1000mm and 1700mm x 1000mm
- Maximum weight of the PV panel and array frame to be 15 kg/m² Rails to be ER-R-ECO
- The roof interface to be Clenergy PV-ezRack Solar Tripod Light as per drawing PZ35-0-004-10 and PZ35-0-005-10
- The ECO rail clamp is assessed based on test report PZ35-TR04-10 The universal panel clamp is assessed based on test report PZ01-TR77-10 & PZ01-
- TR78-10 The assessment is based on 2 x screw fixings' pull-out capacity of 14g Tek screw into
- 1.5BMT steel structure and JD5 timber structure. Each PV panel to be installed using 2 rails minimum in all circumstances Installation of PV array to be done in accordance with the PV installation manual The certification **excludes** assessment of building structure and PV panels

Refer to attached summary table for interface spacing

Page 1 of 2 ISO 9001:2008 Registered Firm Certificate No: AU1222







Gamcorp (Melbourne) Pty Ltd A.C.N 141 076 904 A.B.N 73 015 060 240 www.gamcorp.com.au Email: melbourne@gamcorp.com.au Suite 4, 346 Ferntree Gully Rd, Notting Hill VIC 3149. Tel: 03 9543 2211 Fax: 03 9543 4046

NOTES: • The recommended spacing nominated in this certification is based on the capacity of the array frame and fixing, not building structure and PV panel. It is the responsibility of the installer to adopt the most critical spacing.

- If any of the above conditions cannot be met, the structural engineer must be notified immediately. .
- Next review date of this document is 21 September 2019.

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

Yours faithfully, Gamcorp (Melbourne) Pty Ltd

> d 2

Martin Gamble Managing Director MAICD

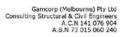
geris

Kevin Zhang Structural Engineer B.Eng(Civil), M.Eng(Structural)

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CONSULT AUSTRALIA

www.gamcorp.com.au melbourne@gamcorp.com.au

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

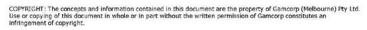
Structural Design Documentation

PV-ezRack Tripod Light System Interface Spacing Table

with ER-R-ECO Rails within Australia Terrain Category 1.5, 2, 2.5 & 3

For: Clenergy Australia

Job Number: 3918 Date: 6 December 2017



LIMITATION: This report has been prepared on behalf of and for the exclusive use of Gamcorp (Melbourne) Pty Ltd's Client, and is subject to and issued in connection with the provisions of the agreement between Gamcorp (Melbourne) Pty Ltd and its Client: Gamcorp (Melbourne) Pt Ltd accepts no lability or responsibility whatsoever for or in respect of any use of or reliance upon this report by any third party.





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ISO 9001:2008 Registered Firm Certificate No: AU1222

Job No: 3918

Client: Clenergy Australia

Project: Tripod Light Interface Spacing Table

Address: within Australia

Australian Standards AS/NZS 1170. 2011 – Structural Design Actions Part 0 – General Principles Part 1 – Permanent imposed and other actions Part 2 – Wind Actions AS 4055 – Wind Loads for Housing AS/NZS 1664 – Aluminium Structures AS 4100 – Steel Structures AS/NZS 4600 – Cold-Formed Steel Structures

Wind Terrain Category:

WTC 1.5, 2, 2.5 & 3

Designed: K.Z Date: Dec-17



lient: roject: ddress:	Clener Tripod within	Light	Interfa	ice Spaci	ng Table	3								Job: Date:		918 c-17
esigned:													3	Check	ed:	J.Z
	Tripod	Light	Interfa	ice Spaci	ng Table											
	Type of Type of Solar P Terrai	f Interf anel Di	imensio	n			ECO L-S15& 1m ; 1.7									
	Tilt Ang		n Roof			Φ=15	0									
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в	508	776	1054	1642	508	776	1054	1642	440	670	907	1407	393	597	808	1248
с	189	301	387	624	189	301	387	624	164	261	334	538	147	233	298	479
D	123	194	249	398	123	194	249	398	106	169	216	344	95	151	193	307
Wind	Tilt Ang Roof Ar	ngle -			1	Φ = 30 ≤10°	Bui	Iding Heig	ght - H		(H<15		Ť	154	:H<20	
	Roof Ar	ngle - H	1≤5			≤10° 5<ł	Bui H≤10			10.	(H≤15			0.05	H≤20	
		ngle -		Internal	Corner	≤10°	Bui		ght – H Corner		CH≤15 Interm ediate	Internal	Corner	15< Edge	H≤20 Interm ediate	Internal
	Roof Ar	ngle - H	l≤5 Interm	Internal 1050	Corner 333	≤10° 5<ł	Bui I≤10			10.	Interm	Internal 905	Corner 259	0.050	Interm	Interna 806
Region	Roof Ar	ngle – H Edge	l≤5 Interm ediate			≤10° S<ł Edge	Bui I≤10 Interm ediate	Internal	Corner	10- Edge	Interm ediate			Edge	Interm ediate	Internal 806 541
A A	Roof Ar	Edge 506	l≤5 Interm ediate 683	1050	333	≤10° 5<} Edge 506	Bui I≤10 Interm ediate 683	Internal 1050	Corner 289	10- Edge 438	Interm ediate 590	905	259	Edge 392	Interm ediate 527	806
A B	Corner 333 226	Edge 506 342	l≤5 Interm ediate 683 460	1050	333 226	≤10° 5<} Edge 506 342	Bui Isterm ediate 683 460	Internal 1050 702	Corner 289 196	10- Edge 438 297	Interm ediate 590 398	905	259 176	Edge 392 265	Interm ediate 527 356	80

Page 1 of 5



	K.Z	Austr	alia	ice Spaci										Checked: J.Z					
	Tripod	Light	Interfa	ice Spaci	ng Table	l.													
	Type of Type of Solar P Terrai	Interf anel Di	mension	n				30/135/G n x 1m	; S-TRII	S158	30/170,								
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Wind								Iding Heig	aht - H (
Region		1.00	l≤5 Interm			1.0	l≤10 Interm			1.5	<h≤15 Interm</h≤15 			1	H≤20 Interm				
	Comer	Edge	ediate	Internal	Corner	Edge	ediate	Internal	Corner	Edge	ediate	Internal	Corner	Edge	ediate	Internal			
A	684	1052	1438	1918	609	933	1272	1833	545	834	1134	1758	501	765	1040	1619			
В	461	702	952	1479	410	625	846	1308	368	560	756	1166	339	515	695	1068			
С	172	273	351	565	153	243	312	501	137	218	280	448	127	201	257	412			
D	111	177	226	361	99	158	201	321	89	142	181	288	82	130	166	265			
Wind	Tilt Ang Roof Ar	ngle -	n Roof I≤5		1	Φ = 30 ≤10° 5<8	Bui	lding Heig)ht - H (<h≤15< th=""><th></th><th>1</th><th>15<</th><th>:H≤20</th><th></th></h≤15<>		1	15<	:H≤20				
Wind		ngle – H	i≤5 Interm	Internal	Corner	≤10° 5<∤	Bui I≤10	Iding Heig	oht – H (10	Interm	Internal	Corner	15< Edge	Interm	Internal			
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Wind Region	Corner 303	Edge 459	i≤5 Interm ediate 619	950	270	≤10° 5<† Edge 409	Bui I≤10 Interm ediate 551	Internal 843	Corner 243	10- Edge 367	Interm ediate 494	754	223	Edge 338	Interm ediate 454	692			
Wind Region A B	Roof Ar	ngle - Edge 459 311	l≤5 Interm ediate	950 636	10000000	≤10° 5<1 Edge 409 277	Bui I≤10 Interm ediate	Internal	Corner	10• Edge	Interm ediate			Edge	Interm ediate				
Wind Region	Corner 303	Edge 459	i≤5 Interm ediate 619	950	270	≤10° 5<† Edge 409	Bui I≤10 Interm ediate 551	Internal 843	Corner 243	10- Edge 367	Interm ediate 494	754	223	Edge 338	Interm ediate 454				

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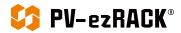
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Roc Wind	Type of Rail Type of Interface Solar Panel Dimension Terrain category Tilt Angle from Roof Roof Angle –					ER-R-ECO S-TRIL-S15830/135/G; S-TRIL-S15830/1 2m x 1m; 1.7m x 1m 2										
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	- 1	H	1≤5	-	-	5<1	1≤10			10-	<h≤15< td=""><td></td><td>-</td><td>15<</td><td>H≤20</td><td></td></h≤15<>		-	15<	H≤20	
Cor	omer E	Edge	Interm ediate	Internal	Corner	Edge	Interm ediate	Internal	Corner	Edge	Interm ediate	Internal	Corner	Edge	Interm ediate	Internal
A 6:	623 9	955	1303	1849	512	782	1062	1656	463	705	957	1485	436	665	901	1396
B 43	420 0	639	866	1340	346	525	709	1091	313	475	640	983	296	448	604	925
C 1	157 3	249	319	513	129	205	263	420	117	186	237	380	111	175	224	358
D 10	102 1	161	206	329	84	133	170	270	76	120	154	244	72	114	145	231
Region	omer E	Edge	Interm	Internal	Corner	Edge	l≤10 Interm	Internal	Corner	Edge	H≤15	Internal	Corner	Edge	H≤20 Interm	Internal
		-age	ediate		corner	coye	ediate		Corner	cage	ediate		Contra	Luge	ediate	
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- CO		419	564	863	228	345	464	707	207	312	419	638	195	295	396	602
B 11		419 284	564 381	863 579	228 155	345 234	464 314	707 476	207	312 212	419 284	638 430	195 133	295 200	396 268	602 406
	188 3															

Page 3 of 5



	within K.Z			Const	na Table								ŝ	Check	ed:	J.Z
	Type of Type of Solar P Terrain	Rail Interf	ace imensio	n	ng Table	ER-R- S-TRI		30/135/G m x 1m	; S-TRII	S158	30/170,					
	Tilt Ang		n Roof			Φ = 15	•									
Wind	Roof Ar	ngle -				€10*	Bui	Iding Heid	aht - H (m)			-			
Region		H	155			5<	H≤10			10-	<h≤15< td=""><td></td><td></td><td>15<</td><td>H≤20</td><td></td></h≤15<>			15<	H≤20	
	Comer	Edge	Interm ediate	Internal	Corner	Edge	Interm ediate	Internal	Corner	Edge	Interm ediate	Internal	Corner	Edge	Interm ediate	Internal
A	534	816	1109	1732	454	691	937	1455	416	634	858	1328	394	599	811	1252
В	361	548	740	1140	307	466	628	963	282	427	576	881	267	404	544	833
С	135	214	274	439	115	182	233	372	105	167	214	341	100	158	202	323
D	88	139	177	282	75	118	151	240	69	109	139	220	65	103	131	208
Wind Region		-	Interm	Internal	Corner	Edge	Interm	Internal	Corner	Edge	Interm	Internal	Corner	Edge	Interm	Internal
Region	Corner	Edge	adiata		100 1100 m - 4400		eurate								eurare	
			ediate	725	203	306	411	626	186	281	377			266	357	543
A	238	359	ediate 483	738	203	306	411	626	186	281	377	387	176	266	357	543
A	238 162	359 244	ediate 483 327	496	138	208	279	422	127	191	256	387	120	181	242	367
A	238	359	ediate 483													

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	Compo	onents		1	Part Num	ber		5 1170.2 Desci	iption						1
	ECO Ra	úl.		1	ER-R-ECO			panel	support	ing rail					1
	Tripod	Light (50 cells)		S-TRIL-S1 S-TRIL-S3			as per	drawin	g PZ35	0-004-10)			
	Tripod	Light (72 cells)		S-TRIL-S1 S-TRIL-S3			as per	drawin	g PZ35	0-005-10)			1
	Univers	al Pan	el Clamp		C-U/30/46			as per	test re	port PZ	01-TR77-	10 & PZ	01-TR7	8-10	1
	Rail Cla	mp for	ECO Ra	ail l	RC-ECO/G			as per	test re	port PZ	35-TR04-	10			
															1
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ote 4	All hole	s must	be pre	drilled, w	ith minimu	um screw e	mbedmen	t of 35 n	into	timber.					
ote 5	Recom	mende	Screw	s											
	Metal	Purlin,	Batter	1	Fastene	rs to Use									
	BMT 1.	2mm -	2.4mm		14g-10 T	PI Teks sci	rews								
	Timbe	r Rafte	r & Pu	rlin/Batt	Fastene	rs to Use									
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ote 6	Splice of	connect	tion is re nection :	ecomment should be	ded to be placed at	placed at q the centre SPLIC	uarter len of spacing E	gth of th or over	e spaci the int	ng of th					
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