## ValkDouble

## **Installation manual**

Use in combination with the project report of the ValkKITSplanner



**Van der Valk Solar Systems** Developer and producer of solar mounting systems



Version 01 | EN

# ValkDouble

## **Installation manual**

Use in combination with the project report of the ValkKITSplanner

# SOLAR SYSTEMS

**Van der Valk Solar Systems** Developer and producer of solar mounting systems

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## Please note

- This manual is not project specific.
- This manual is not legally binding.
- No rights may be derived from this manual.
- Use this manual in combination with the ValkPVplanner project report.
- Check 'Datasheet Cable management' for cable suggestions.
- The system is placed in the middle zone of the roof.



# ValkDouble

## **Installation manual**

Use in combination with the project report of the ValkKITSplanner

## Disclaimer

This installation manual must be seen in addition to the project report which shows you specific information about your project like a project drawing and ballast plan for flat roofs.

The project report is a result of the calculation tool, the ValkPV planner. This online calculation tool and/or the project reports derived from this tool were composed with the greatest possible care. Nonetheless, it is possible that some information might not be entirely correct as the results for each project report can be based on default values, which values always need to be checked by you. The instructions provided in this project report must be observed at all times. All applicable standards and appendixes have been integrated in this online calculation tool.

All current structural, safety and building regulations must be observed. Solar mounting systems installed on roofs will be exposed to wind and snow. The building in question will be subject to a load as a result of the PV system. A design calculation must be used to establish whether or not the building will be able to withstand the extra load. Where necessary, modifications need to be made.

Flat roof systems should either be attached to the roof or need to be supported by ballast, to make sure that the system is unable to be lifted or tipped over. The ballast specified in the ValkPVplanner project report will be vital to ensure that the mounting system can be used. Flat roofs with an angle above 5 degrees must be attached to the roof.

The calculations in the online calculation tool do not take into account obstacles in the near surrounding like high buildings, cliffs and mountains. Restrictions also apply for the position of the system on a roof. The solar panels must be installed at a certain distance from edge of the roof as shown in this project report and the installation manual.

The standard warranty for pitched roof, flat roof and ground mount systems is 10 years, which can be extended under certain conditions. The guarantee provided is subject to the guarantee conditions stated in the general terms and conditions stipulated by Van der Valk Solar Systems B.V. Our terms and conditions shall apply to all our products and can be found on our website: www.valksolarsystems.com.

Van der Valk Solar Systems B.V. does not accept any liability for any direct and/or indirect consequences of any act (or omission) ensuing from the information in or the failure to observe the instruction provided in the project report and the installation manual and for possible incorrect results resulting from the use of this online calculation tool which was made available to you.

The ValkDouble® mounting system is a product produced by: Van der Valk Solar Systems BV Chamber of Commerce number: 27355116 www.valksolarsystems.com



**Van der Valk Solar Systems** Developer and producer of solar mounting systems

Release date: March 2021

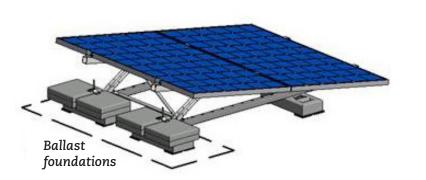
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## **Required ballast | The Netherlands**

#### General

The ValkDouble® mounting system must be reinforced by means of tiles, which must be placed on the indicated ballast foundations. In **three steps** you can easily calculate the required ballast; • determine the wind area on the windmap

- choose the wind area and building height in the tabl
- you can now read the number of tiles / kg



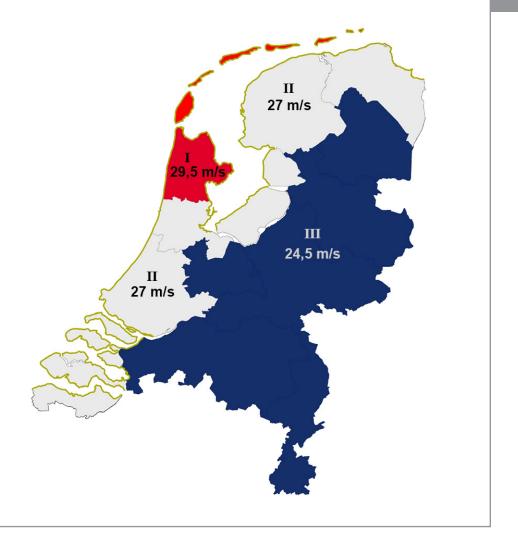
#### Surrounding parameters

Panelsize	Length approx. 1650 mm - Width max 1005 mm
	Height 28-50 mm - Weight approx. 19 kg
Position	Middle zone roof
Terrain category	Builded environment
Roofing materials	Bitumen
Tile size*	30 x 30 x 4,5 cm á 9 kg
Flat roof	Max. 5% inclination

Height / Wind area	0 - 5 meter	5 - 7 meter	7 - 9 meter	9 - 12 meter	12 - 15 meter	
I (29,5 m/s)	101	101	130	164	191	kg
1 (29,5 111/5)	11,5	11,5	14,5	na**	na**	tiles
II (27 m/s)	61	61	85	113	136	kg
	7	7	9,5	13	15,5	tiles
III (24,5 m/s)	37	37	49	68	87	kg
	4,5	4,5	5,5	8	10	tiles

**Note 1:** The extra ballast must be equally divided over the ballast foundations. **Note 2:** The max. of 16 tiles can be placed for extra ballast (144 kg).

#### Windmap The Netherlands



\* If you use tiles of different sizes and thus another weight, you need to adjust the number of tiles to get the right weight.

\*\* Not available due to exceedance maximum number of tiles.

## **Required ballast | Belgium**

#### General

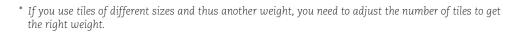
The ValkDouble® mounting system must be reinforced by means of tiles, which must be placed on the indicated ballast foundations. In **three steps** you can easily calculate the required ballast; • determine the wind area on the windmap

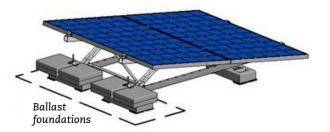
- choose the wind area and building height in the tabl
- you can now read the number of tiles / kg

**Note 1:** The extra ballast must be equally divided over the ballast foundations. **Note 2:** The max. of 16 tiles can be placed for extra ballast (144 kg).

#### Windmap Belgium







#### Surrounding parameters

PanelsizeLength approx. 1650 mm - Width max 1005 mm<br/>Height 28-50 mm - Weight approx. 19 kgPositionMiddle zone roofTerrain categoryTownRoofing materialsBitumenTile size\*30 x 30 x 4,5 cm á 9 kgFlat roofMax. 5% inclination

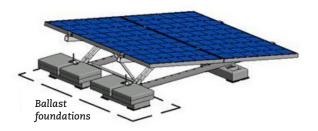
Height / Wind area	0 - 5 meter	5 - 7 meter	7 - 9 meter	9 - 12 meter	12 - 15 meter	
22 mg/g	15	26	35	46	54	kg
23 m/s	2	3	4	5,5	6	tiles
24 ma/a	21	34	43	55	70	kg
24 m/s	2,5	2,5 4 5 6,5 8		8	tiles	
25 m/s	28	41	52	71	87	kg
25 111/5	3,5	5	5 6 8		10	tiles
26 m/s	35	49	65 87 105		105	kg
	4	5,5	7,5	10	12	tiles

## **Required ballast | Germany**

#### General

The ValkDouble® mounting system must be reinforced by means of tiles, which must be placed on the indicated ballast foundations. In **three steps** you can easily calculate the required ballast; • determine the wind area on the windmap

- choose the wind area and building height in the tabl
- you can now read the number of tiles / kg



#### Surrounding parameters

Panelsize

Terrain category

Roofing materials

Height above sea level

(Excluding North German Lowland)

Position

Tile size\*

Flat roof

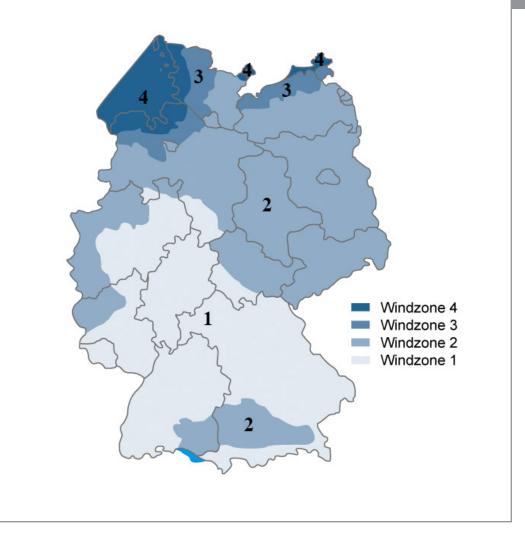
Length approx. 1650 mm - Width max 1005 mm Height 28-50 mm - Weight approx. 19 kg Middle zone roof Builded environment 350 m

Bitumen 30 x 30 x 4,5 cm á 9 kg Max. 5% inclination

Height / Wind area	0 - 5 meter	5 - 7 meter	7 - 9 meter	9 - 12 meter	12 - 15 meter	
1/00 = m/0	16	16	16	16	16	kg
1 (22,5 m/s)	2	2	2	2	2	tiles
2/25 m/s	33	33	33	33	33	kg
2 (25 m/s)	4	4	4	4	4	tiles
2/07 E m/c	52	52	52	52	52	kg
3 (27,5 m/s)	6	6	6 6 6 6		6	tiles
4 (30 m/s)	84	84	1 84 84 84		84	kg
	9,5	9,5	9,5	9,5	9,5	tiles

**Note 1:** The extra ballast must be equally divided over the ballast foundations. **Note 2:** The max. of 16 tiles can be placed for extra ballast (144 kg).

#### Windmap Germany

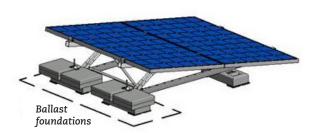


## **Required ballast | United Kingdom**

#### General

The ValkDouble® mounting system must be reinforced by means of tiles, which must be placed on the indicated ballast foundations. In **three steps** you can easily calculate the required ballast; • determine the wind area on the windmap

- choose the wind area and building height in the table
- you can now read the number of tiles / kg



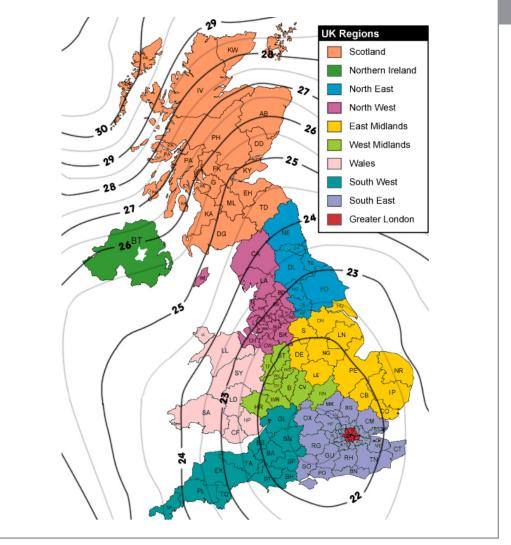
#### Surrounding parameters

Panelsize	Length approx. 1650 mm - Width max 1005 mm Height 28-50 mm - Weight approx. 19 kg
Position	Middle zone roof
Terrain category	Builded environment
Height above sea level	50 m
Distance to coast line	5 km
Distance to city border	5 km
Roofing materials	Bitumen
Tile size*	30 x 30 x 4,5 cm á 9 kg
Flat roof	Max. 5% inclination

Height / Wind area	0 - 5 meter	5 - 7 meter	7 - 9 meter	9 - 12 meter	12 - 15 meter	
00 m /a	38	59	72	111	111	kg
22 m/s	4,5	7	8	12,5	12,5	tiles
23 m/s	47	77	91	134	134	kg
25 111/5	5,5	9	10,5	15	15	tiles
04	57	95	111	157	157	kg
24 m/s	6,5 11		12,5 na**		na**	tiles
25 m/a	73		131	181	181	kg
25 m/s	8,5	13	15	na**	na**	tiles
26 m/s	90	134	152	207	207	kg
20 111/5	10	15	na**	na**	na**	tiles

**Note 1:** The extra ballast must be equally divided over the ballast foundations. **Note 2:** The max. of 16 tiles can be placed for extra ballast (144 kg).

#### Windmap United Kingdom



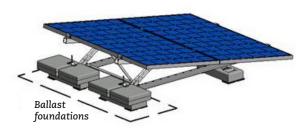
\* If you use tiles of different sizes and thus another weight, you need to adjust the number of tiles to get the right weight.

\*\* Not available due to exceedance maximum number of tiles.

## **Required ballast | Ireland**

#### General

placed on the indicated ballast foundations. In **three steps** you can easily calculate the



#### Surrounding parameters

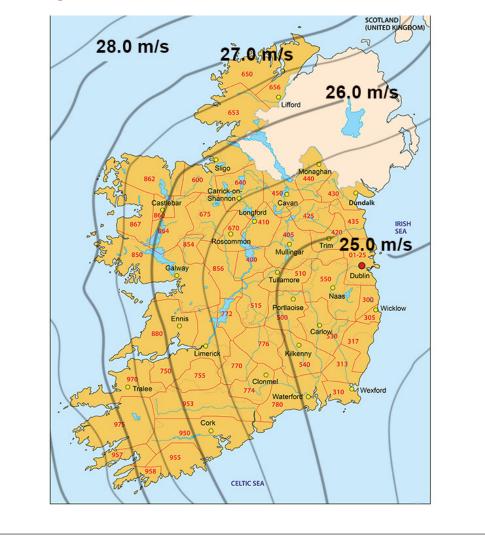
Panelsize	Length approx. 1650 mm - Width max 1005 mm					
	Height 28-50 mm - Weight approx. 19 kg					
Position	Middle zone roof					
Terrain category	Town					
Height above sea level	50 m					
Distance to coast line	5 km					
Distance to city border	5 km					
(Northern Ireland: see United Kingdom)						
	- <u>-</u> ,					

Roofing materials	Bitumen
Tile size*	30 x 30 x 4,5 cm á 9 kg
Flat roof	Max. 5% inclination

Height / Wind area	0 - 5 meter	5 - 7 meter	7 - 9 meter	9 - 12 meter	12 - 15 meter	
25 m/s	73	115	131	181	181	kg
25 111/5	8,5	13	15	na**	na**	tiles
26 m/s	90	134	152	207	207	kg
20 111/5	10	15	na**	na**	na**	tiles
27 m/s	107	155	175	233	233	kg
27 III/S	12	na**	na**	na**	na**	tiles
	125	177	197	261	261	kg
28 m/s	14	na**	na**	na**	na**	tiles

**Note 1:** The extra ballast must be equally divided over the ballast foundations. **Note 2:** The max. of 16 tiles can be placed for extra ballast (144 kg).

#### Windmap Ireland



\* If you use tiles of different sizes and thus another weight, you need to adjust the number of tiles to get the right weight.

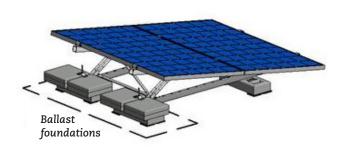
\*\* Not available due to exceedance maximum number of tiles.

## **Required ballast | Norway**

#### General

The ValkDouble® mounting system must be reinforced by means of tiles, which must be placed on the indicated ballast foundations. In **three steps** you can easily calculate the required ballast; • determine the wind area on the windmap

- choose the wind area and building height in the tabl
- you can now read the number of tiles / kg

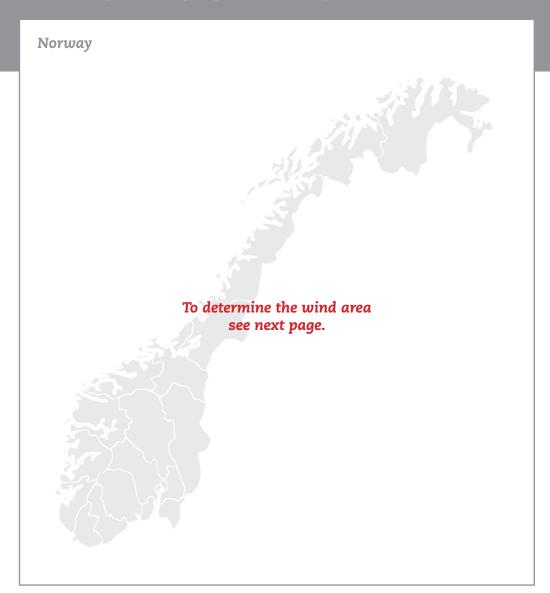


#### Surrounding parameters

PanelsizeLength approx. 1650 mm - Width max 1005 mm<br/>Height 28-50 mm - Weight approx. 19 kgPositionMiddle zone roofTerrain categoryTownHeight above sea level175 mRoofing materialsBitumenTile size\*30 x 30 x 4,5 cm á 9 kgFlat roofMax. 5% inclination

Height / Wind area**	0 - 5 meter	5 - 7 meter	7 - 9 meter	9 - 12 meter	12 - 15 meter		
22 m/s	25	25	25	25	25	kg	
22 III/S	3	3	3	3	3	tiles	
0E /	49	49	49	49	49	kg	
25 m/s	5,5	5,5	5,5	5,5	5,5	tiles	
07 /	74	74	74	74	74	kg	
27 m/s	8,5	8,5	8,5	8,5	8,5	tiles	
20 /	106	106	106	106	106	kg	
29 m/s	12	12	12	12	12	tiles	
21 /	138	139	139	139	139	kg	
31 m/s	15,5	15,5	15,5	15,5	15,5	tiles	

**Note 1:** The extra ballast must be equally divided over the ballast foundations. **Note 2:** The max. of 16 tiles can be placed for extra ballast (144 kg).



\* If you use tiles of different sizes and thus another weight, you need to adjust the number of tiles to get the right weight.

\*\* To determine the wind area see next page.

## Wind area Norway

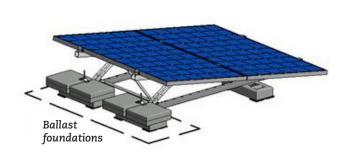
	m/s	1	m/s	m/s			m/s		m/s		m/s
<b>Province Østfold</b> Except Municipalitys:	22	<b>Province Vestford</b> Except Municipalitys:	23	Kvitsøy 29 Karmøy 30		e <b>Møre og Romsdal</b> Aunicipalitys:	30	<b>Province Nord-Trøndelag</b> Except Municipalitys:	26	<b>Province Troms</b> Except Municipalitys:	26
Halden	24	Hof	22	Utsira 30	Rindal	in the participation of the pa	25	Lierne	24	Bardu	24
Moss	24	Lardal	22	Ølen Municipality isn't in the	Surnad	-1	25	Meråker	25	Målselv	24
			24	Wind standard	Nesset	21	26	Røyrvik	25		24
Rygge	24	Nøtterøy		wina standara	Nordda	1	26	Snåsa	25	Strofjord	
Råde	24	Sandefjord	24	Durania an Utandalan d		1				Gáivuona/Kåfjord	25
Sarpsborg	24	Stokke	24	Province Hordaland 26	Stordal		26	Flatanger	29	Balsfjord	26
Våler	24	Tønsberg	24	Except Municipalitys:	Stranda		26	Fosnes	29	Gratangen	26
Fredrikstad	26	Larvik	25	Etne 24	Sunnda		27	Leka	29	Ibestad	26
Hvaler	27	Tjøme	26	Etne near the Folgefonna 24	Gjemne	S	28	Leka on the mainland	29	Lavangen	26
				Granvin 24	Rauma		28	Nærøy	29	Lyngen	26
Province Akershus	22	Province Telemark 22		Kvam 24	Sykkylv	en	28	Vikna	30	Salangen	26
Except Municipality:		Except Municipalitys:		Modalen 24	Tingvol	l	28			Skånland	26
Vestby	24	Bamble	23	Samnanger 24	Volda		28	Province Nordland	29	Sørreisa	26
5		Porsgrunn	23	Ulvik 24	Ørskog		28	Except Municipalitys:		Dyrøy	27
Province Oslo	22	Fyresdal	24	Vaksdal 24	Ørsta		28	Beiarn	26	Harstad	27
		Kragerø	24	Voss 24	Eide		29	Evenes	26	Lenvik	27
Province Hedmark 22		Tinn	24	Osterøy 25	Halsa		29	Fauske	26	Nordreisa	27
Except Municipalitys:		Tokke	24	Radøy 27	Hareid		29	Grane	26	Tranøy	27
Alvdal	24	Vinje	24	Austevoll 28	Molde		29	Hattfjelldal	26	Tromsø	27
Folldal	24 24			Austrheim 28	Skodje		29	Hemnes	26		
		Vinje near Rogaland/Hordaland	1 24					Rana	26	Bjarkøy	28
Folldal near Trøndelag	24			Bømlo 28	Sula	1	29			Kv <b>æ</b> nangen	28
Os	24	Province Aust-Agder	24	Fjell 28	Ålesun	1	29	Saltdal	26	Skjervøy	28
Os near Trøndelag	24	Except Municipalitys:		Sund 28	Sandøy		31	Sørfold	26	Karlsøy	29
Tolga	24	Arendal	26	Øygarden 29	Frei	Municipality isn't i	n the	Ballangen	27	Berg	30
Tynset	24	Grimstad	26	Fedje 30		Wind standard		Tjeldsund	27	Torsken	30
Tynset Kvikne	24	Lillesand	26		Tustna	Municipality isn't i	n the	Tysfjord	27		
Tynset near Trøndelag	24	Risør	26	Province Sogn og Fjordane 24		Wind standard		Hamarøy	28	Province Finnmark	29
		Tvedestrand	26	Except Municipalitys:				Narvik	28	Except Municipalitys:	
Province Oppland	22			Aurland 25	Provinc	e Sør-Trøndelag	25	Sortland	28	Kárájoga / Karasjok	24
Except Municipalitys:		Province Vest-Agder	24	Eid 26	Except I	Aunicipalitys:		Vefsn	28	Guovdageaidnu / Kautokein	0 24
Vågå	23	Except Municipalitys:		Fjaler 26	Malvik	- /	26	Vefsn along the fjord	28	Deanu/Tana	27
Dovre	24	Flekkefjord	26	Førde 26	Oppdal		26	Vefsn Mosjøen	28	Porsanger	27
Dovre near Trøndelag	24	Flekkefjord near Rogaland	26	Førde near the Jostedalsbreen 26	Renneb	u	26	Vevelstad	28	Unjárgga / Nesseby	27
Lom	24	Kristiansand	26	Gaular 26	Trondh		26	Alstahaug	30		
Lom near Sogn og Fj.	24	Lyngdal	26	Gloppen 26	Agdene		27	Bindal	30	Alta	28
Vang	24	Søngne	26	Gloppen near the Ålfotbreen	Rissa	5	27	Bodø	30	Berlevåg	30
Vang near Sogn og Fj.	24	Farsund	28	and Jostedalsbreen 26	Snillfjo	d	27	Dønna	30	Gamvik	30
	24		28	Hornindal 26	Hemne		28	Flakstad	30	Hasvik	30
Lesja	20	Lindesnes	28 28	Hyllestad 26			28 29	Herøy	30	Måsøy	30
Lesja near Trøndelag/	05	Mandal	28		Bjugn		29 29	Leirfjord	30	Nordkapp	30
Møre og Romsdal	25	<b>D</b> <sup>1</sup> <b>D</b> 1 100		Høyanger 26	Osen					Vardø	30
Skjåk	25	Province Rogaland 26		Lærdal 26	Roan		29	Lurøy	30		
Skjåk near Sogn og Fj./		Except Municipalitys:		Naustdal 26	Åfjord		29	Lurøy on the mainland	30	Province Svalbard	30
Møre og Romsdal	25	Hjelmeland	24	Askvoll 28	Frøya		30	Nesna	30		
		Sauda	24	Flora 28	Hitra		30	Sømna	30		
Province Buskerud 22		Suldal	24	Gulen 28	Ørland		30	Vega	30		
Except Municipalitys:		Vindafjord	24	Bremanger 29				Vestvågøy	30		
Hemsedal	24	Eigersund	27	Bremanger near the Ålfotbreen 29				Andøy	31		
Hemsedal near Sogn og Fj.	24	Sokndal	27	Solund 29				Moskenes	31		
Hol	24	Bokn	28	Selje 31				Røst	31		
Hol near Hordeland /		Haugesund	28	Vågsøy 31				Tr <b>æ</b> na	31		
Sogn og Fjordane	24	Klepp	28	5,				Værøy	31		
Hurum	24	Randaberg	28					Skjerstad Municipality isn't	in the		
Nore og Uvdal	24	Rennesøy	28					Wind standard			
Nore og Uvdal near Hordelan		Sola	28								
Ål	24	Time	28								
Ål near Sogn og Fj.	24	Hå	28								
111 IICUI DOGII OG I J.	2T	114	20					I		l	

### **Required ballast | Sweden**

#### General

The ValkDouble® mounting system must be reinforced by means of tiles, which must be placed on the indicated ballast foundations. In **three steps** you can easily calculate the required ballast; • determine the wind area on the windmap

- choose the wind area and building height in the tabl
- you can now read the number of tiles / kg



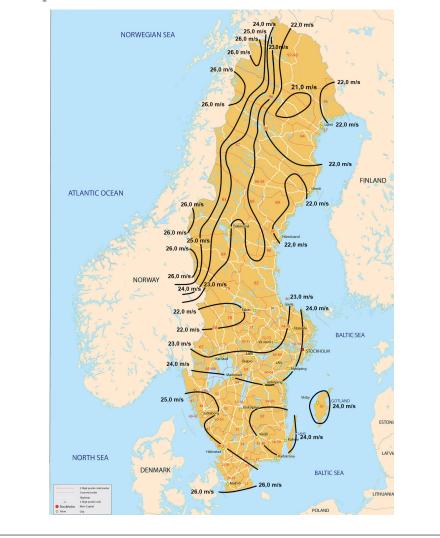
#### Surrounding parameters

Panelsize	Length approx. 1650 mm - Width max 1005 mm
	Height 28-50 mm - Weight approx. 19 kg
Position	Middle zone roof
Terrain category	Town
Roofing materials	Bitumen
Tile size*	30 x 30 x 4,5 cm á 9 kg
Flat roof	Max. 5% inclination

Height / Wind area	0 - 5 meter	5 - 7 meter	7 - 9 meter	9 - 12 meter	12 - 15 meter	
22 m/s	0	0	0	2	9	kg
	0	0	0	0,5	1	tiles
23 m/s	0	0	0	8	15	kg
	0	0	0	1	2	tiles
24 m/s	0	0	1	13	22	kg
	0	0	0,5	1,5	2,5	tiles
25 m/s	0	0	6	12	28	kg
	0	0	1	1,5	3,5	tiles
26 m/s	0	0	11	25	35	kg
	0	0	1,5	3	4	tiles

**Note 1:** The extra ballast must be equally divided over the ballast foundations. **Note 2:** The max. of 16 tiles can be placed for extra ballast (144 kg).

#### Windmap Sweden

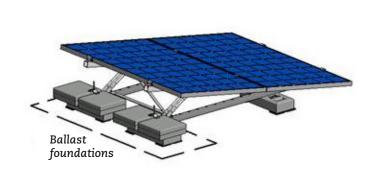


## **Required ballast | Finland**

#### General

The ValkDouble® mounting system must be reinforced by means of tiles, which must be placed on the indicated ballast foundations. In **three steps** you can easily calculate the required ballast; • determine the wind area on the windmap

- choose the wind area and building height in the tabl
- you can now read the number of tiles / kg

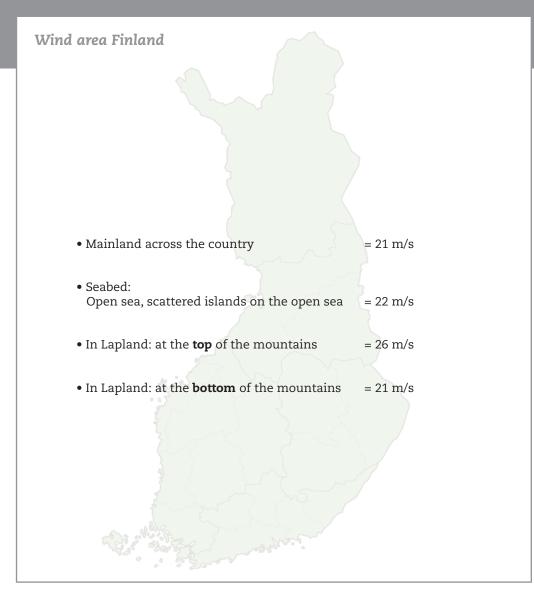


#### Surrounding parameters

Panelsize	Length approx. 1650 mm - Width max 1005 mm Height 28-50 mm - Weight approx. 19 kg
	o o
Position	Middle zone roof
Terrain category	Town
Roofing materials	Bitumen
Tile size*	30 x 30 x 4,5 cm á 9 kg
Flat roof	Max. 5% inclination

Height /	0 - 5	5 - 7	7 - 9	9 - 12	12 - 15	
Wind area	meter	meter	meter	meter	meter	
21 m/s	0	0	9	16	24	kg
	0	0	1	2	3	tiles
22 m/s	0	0	15	23	32	kg
	0	0	2	3	4	tiles
26 m/s	44	44	44	54	74	kg
	5	5	5	6	8,5	tiles

**Note 1:** The extra ballast must be equally divided over the ballast foundations. **Note 2:** The max. of 16 tiles can be placed for extra ballast (144 kg).



## **Required ballast | Poland**

#### General

The ValkDouble® mounting system must be reinforced by means of tiles, which must be placed on the indicated ballast foundations. In **three steps** you can easily calculate the required ballast; • determine the wind area on the windmap

- choose the wind area and building height in the table
- you can now read the number of tiles / kg



#### Surrounding parameters

Panelsize

#### Position Terrain category Height above sea level Roofing materials Tile size\* Flat roof

Length approx. 1650 mm - Width max 1005 mm Height 28-50 mm - Weight approx. 19 kg Middle zone roof Builded environment 250 m Bitumen 30 x 30 x 4,5 cm á 9 kg Max. 5% inclination

Height / Wind area	0 - 5 meter	5 - 7 meter	7 - 9 meter	9 - 12 meter	12 - 15 meter	
1	31	39	45	53	63	kg
	3,5	4,5	5	6	7	tiles
2	72	91	105	124	139	kg
	8	10,5	12	14	15,5	tiles
3	31	39	45	53	63	kg
	3,5	4,5	5	6	7	tiles

**Note 1:** The extra ballast must be equally divided over the ballast foundations. **Note 2:** The max. of 16 tiles can be placed for extra ballast (144 kg).

#### Windmap Poland



# Recommended installation tools ValkDouble





Cordless drill (for socket 13 and bit T-30)

Wrench 13



Socket 13



Torx bit T-30

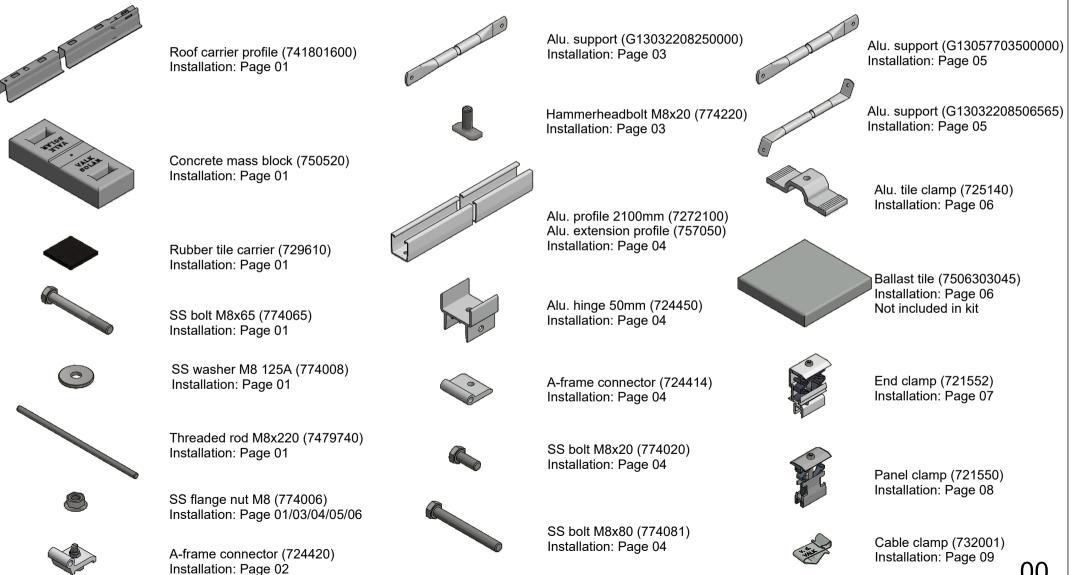


Measuring tape

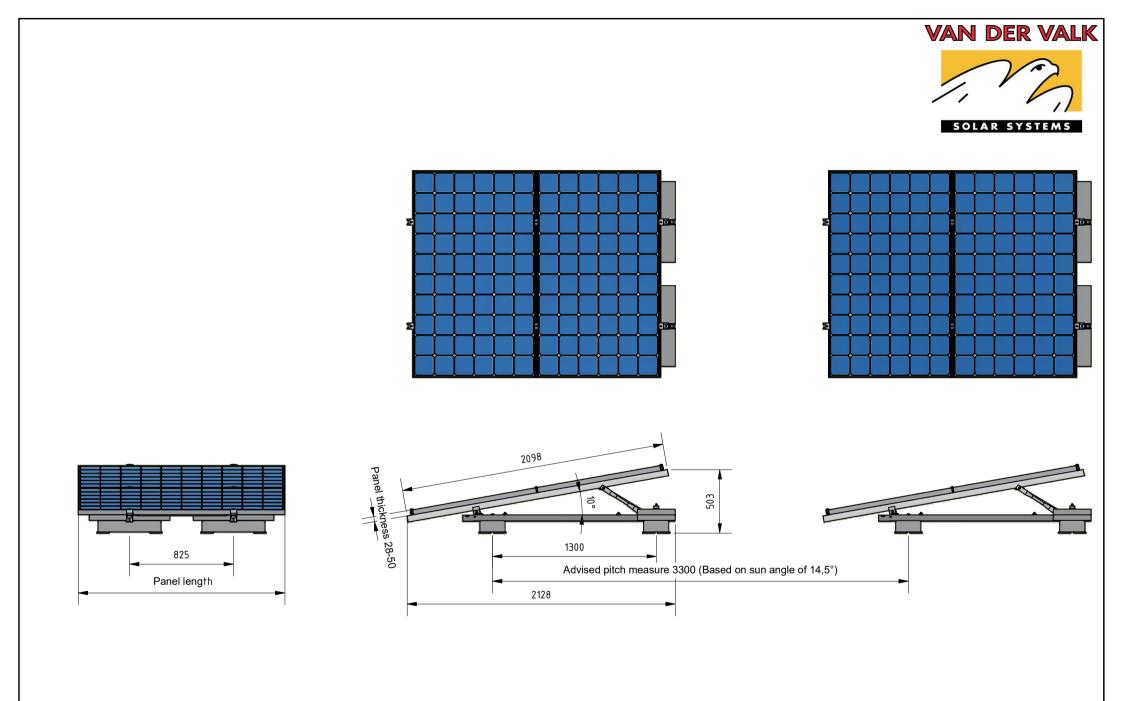
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# **Required materials** ValkDouble





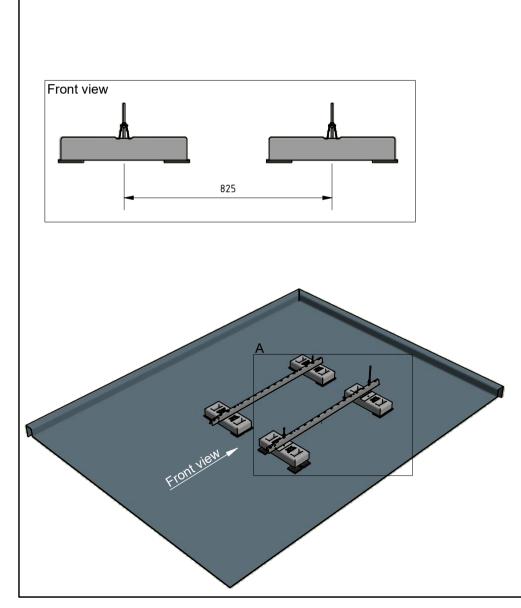
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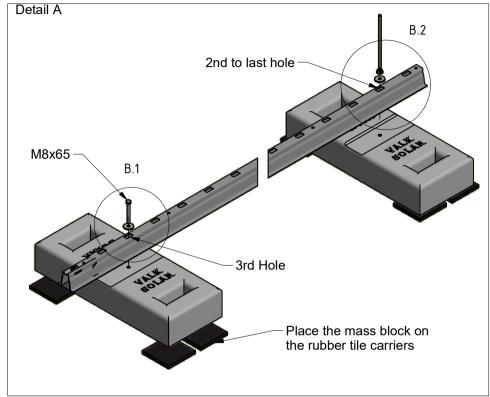


#### <u>/alk Hint</u>

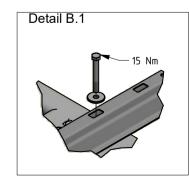
1) Place the mass block on the correct locations before mounting the roof carriers.

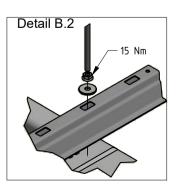


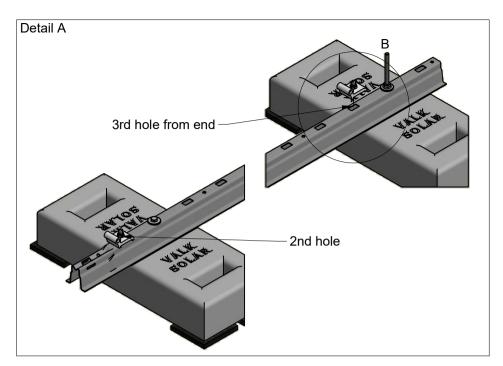




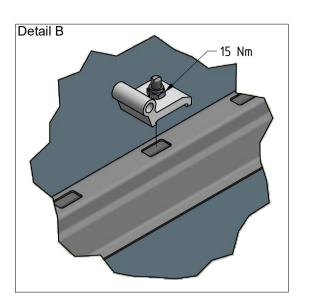
Mount the mass blocks to the roof carriers in the correct positions.





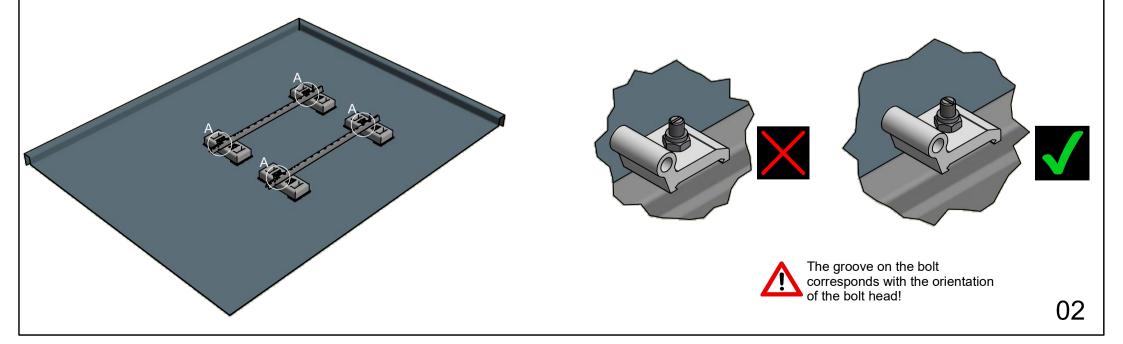


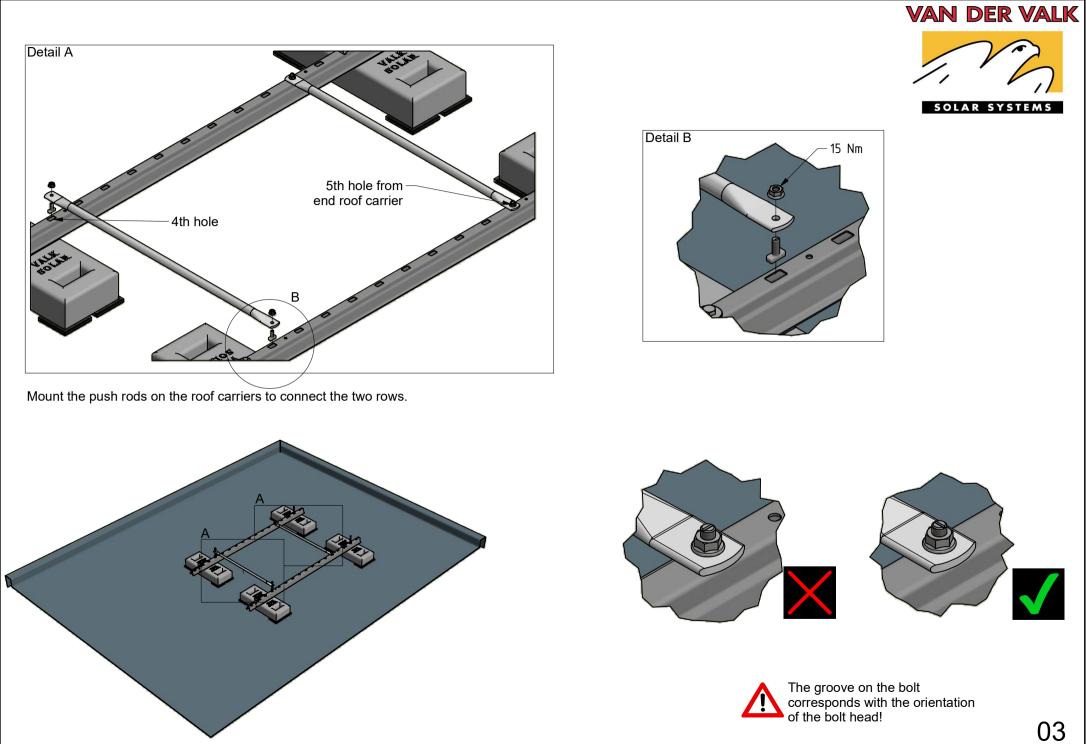
Mount the connector pieces to the roof carriers. Make sure they are placed as shown in the drawing.

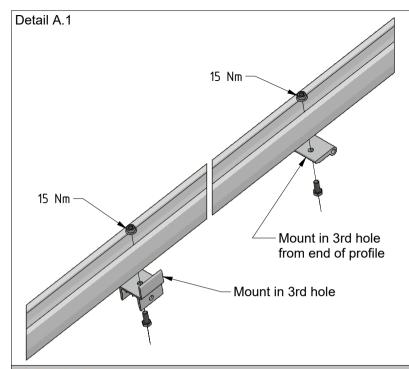


VAN DER VALK

SOLAR SYSTEMS



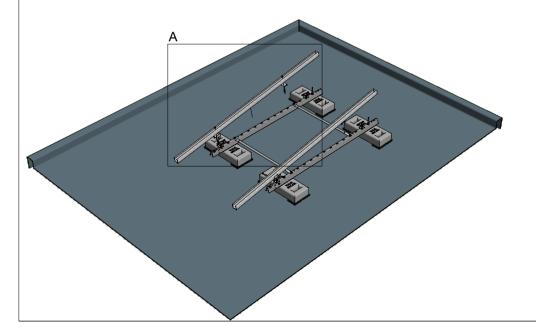




# Detail A.2 M8x80

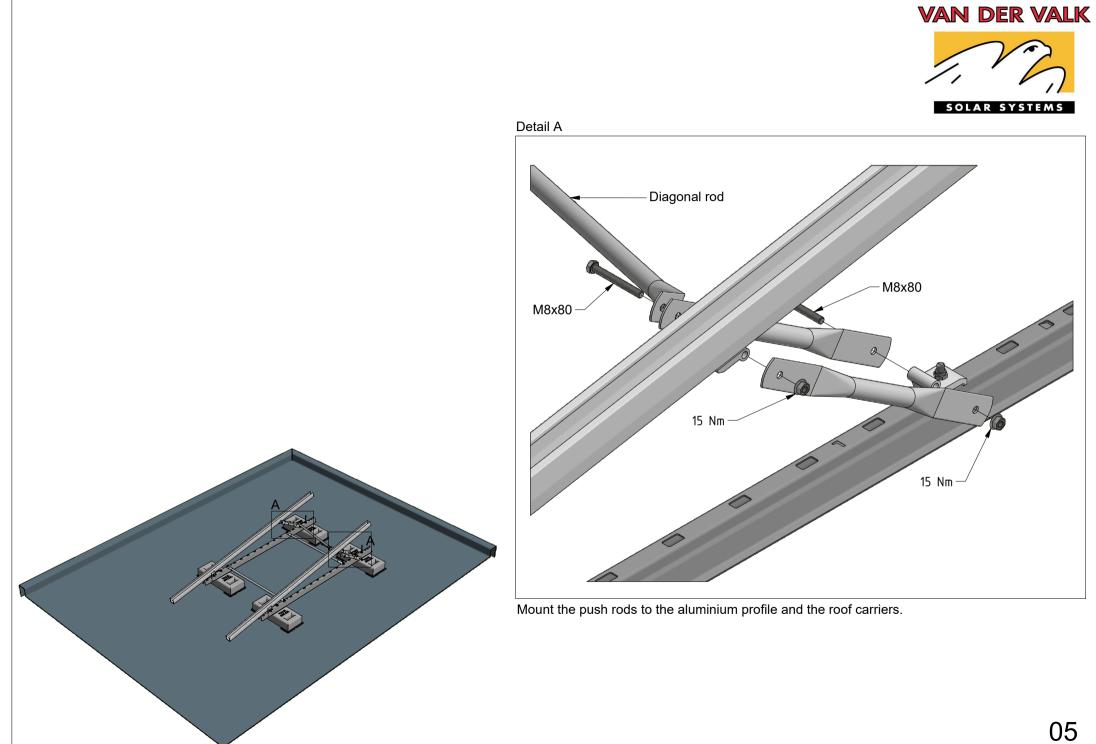
#### ValkHint

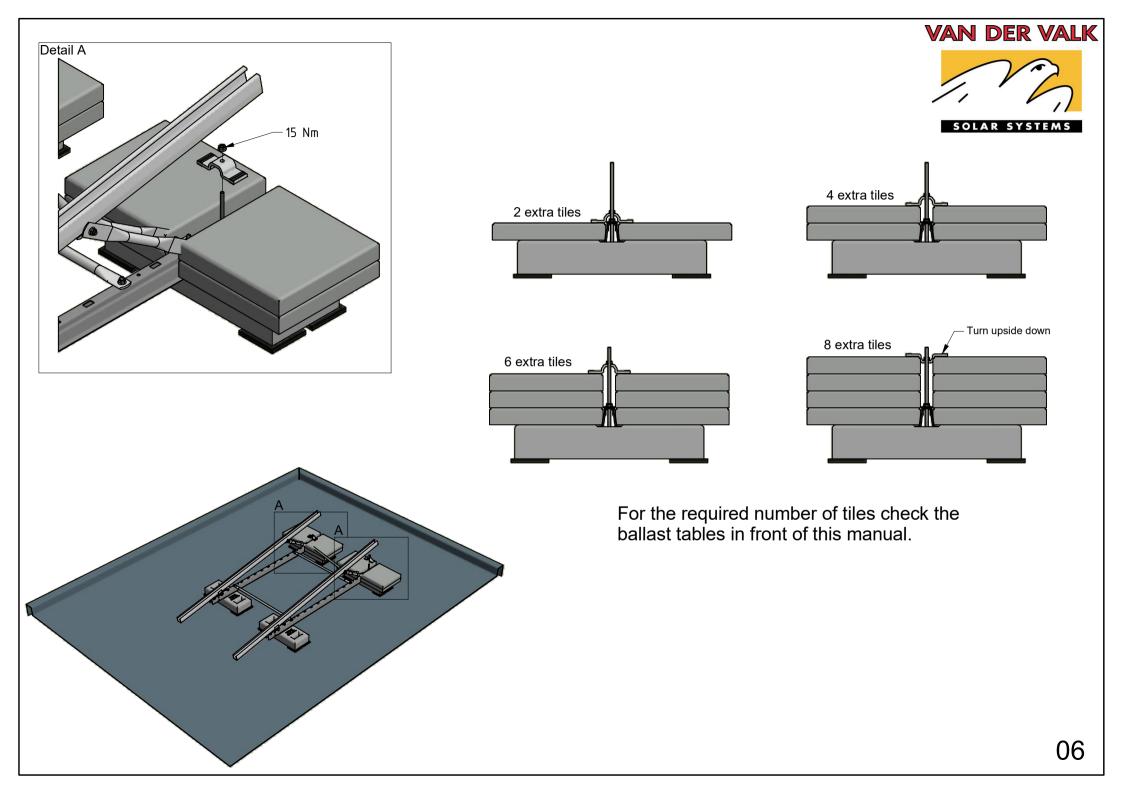
Create the Aluminium profile with the connector pieces firs Then mount the profile to the roof carrier.

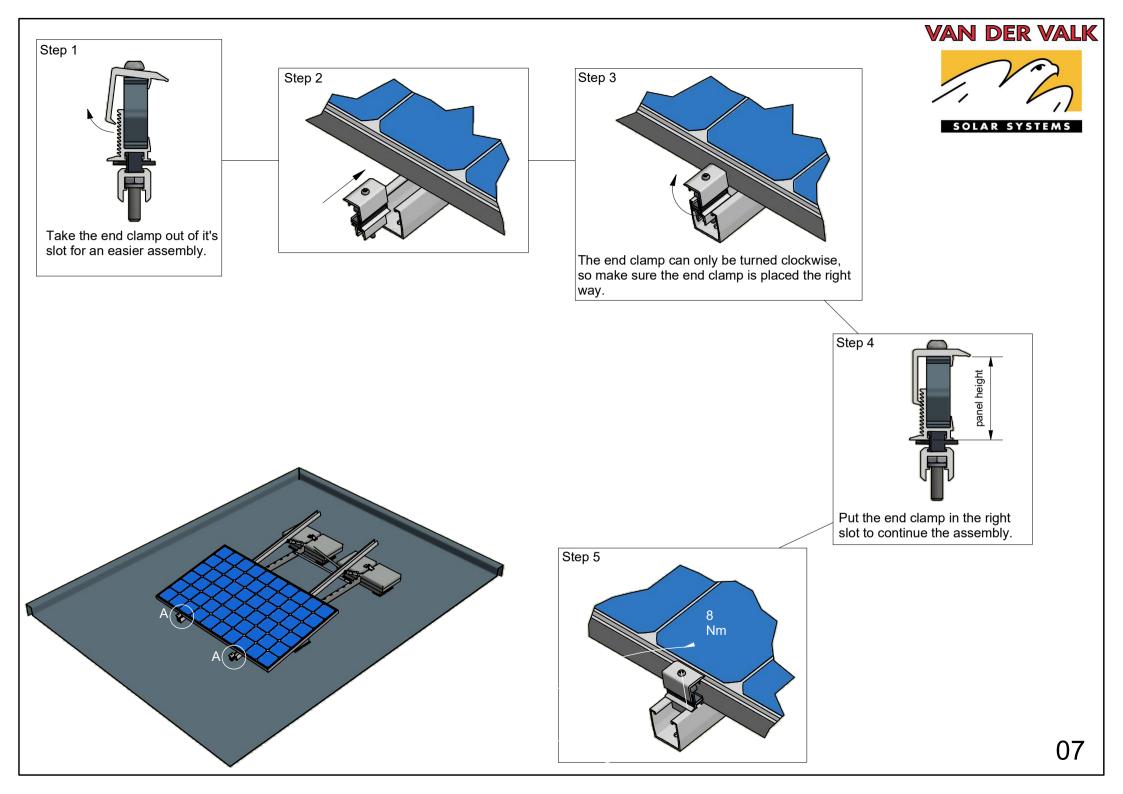


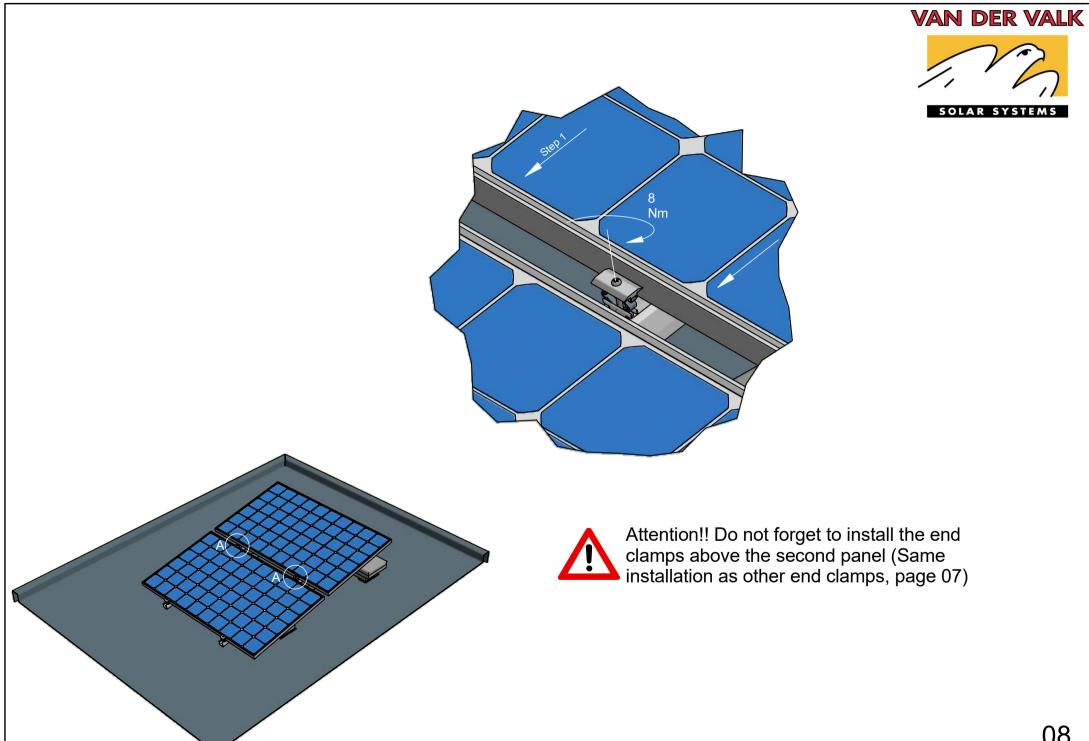
VAN DER VALK

SOLAR SYSTEMS

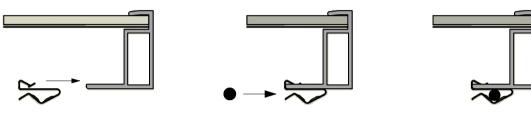












Mount cable clamp on the panel.

