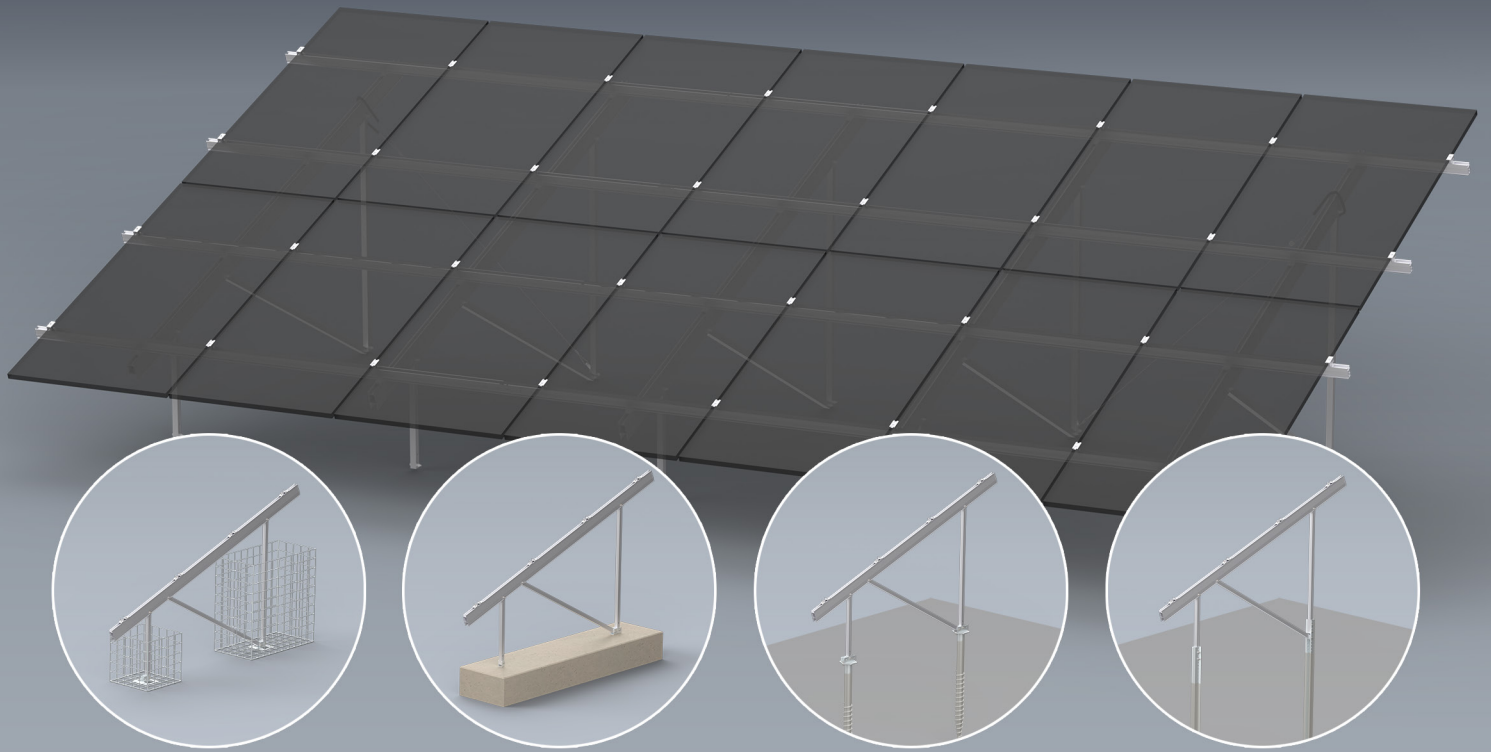




Connecting Strength



Assembly instructions

N-Rack Kit

**Gabions, Concrete, Ground Screws
and Pile-driven Foundations**

Content

Main tools

General safety information

The following guidelines apply

- Important assembly instructions
- Static information

Overview of the main components

- N-Rack Top Kits
- N-Rack Ground Kits
 - Gabions
 - Concrete foundations
 - Ground Screw foundations
 - Pile-driven foundations

List of articles

- N-Rack Top Kits
 - Small parts
- N-Rack Ground Kits
 - Gabion
 - Concrete
 - Ground screw
 - Pile

Pre-assembly of module supports

- Components from the N-Rack Top Kit and N-Rack Ground Kit
- Supports

Gabions

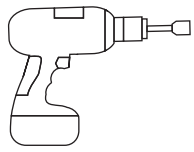
- General guidelines
- Additional tools
- Components
- Installation
 - Preparing gabions
 - Spacing
 - Positioning gabions
 - Connecting supports
 - Adding bulk material

Concrete foundations

- General guidelines
- Additional tools
- Components
- Installation
 - Dimensions
 - Spacing
 - Pre-drilled anchor holes
 - Fixing the anchors and connection
 - Connecting supports

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22	· Pile Kit 2×12 L	70
22		
22		
23		
23		
24		

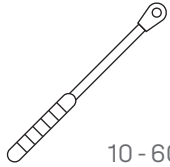
Main tools



6 mm



8 mm



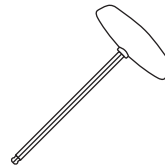
10 - 60 Nm
(7.4 - 44.2 lb-ft)



6 mm



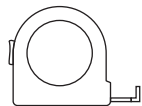
16, 17, 18, 19 mm



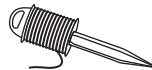
6 mm



16, 17, 18, 19 mm



≥ 3.0 m



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K2 Systems stands for secure connections, highest quality and precision. Our customers and business partners have known that for a long time. Independent institutes have tested, confirmed and certified our capabilities and components.

Please find our quality and product certificates under:

k2-systems.com.

General safety information

Please note that our general mounting instructions must be followed at all times and can be viewed online at [k2-systems.com](https://www.k2-systems.com)

- The equipment may only be installed and operated by qualified and adequately trained installers.
- Prior to installation, ensure that the product complies with on-site static loading requirements. For roof-mounted systems, the roof load-bearing capacity must always be checked.
- National and local building regulations and environmental requirements must be adhered to.
- Compliance with health and safety regulations, accident prevention guidelines and applicable standards is required.
 - Protective equipment such as safety helmet, boots and gloves must be worn.
 - Roofing works must be in accordance with roofing regulations utilising fall protection safeguards when eaves height exceeds 3 m.
 - At least two people must be present for the duration of the installation work in order to provide rapid assistance in the event of an emergency.
- K2 mounting systems are continuously developed and improved and the installation process may thereby change at any time. Prior to installation consult our website at www.k2-systems.com/en/technical-information for up-to-date instructions. We can send you the latest version on request.
- The assembly instructions of the module manufacturer must be adhered to.
- Equipotential bonding/grounding/earthing between individual parts is to be performed according to country specific standards, as well as national laws and regulations.
- At least one copy of the assembly instructions should be available on site throughout the duration of the installation.
- Failure to adhere to our general safety and assembly instructions and not using all system components, K2 is not liable for any resulting defects or damages. We do not accept liability for any damage resulting in the use of competitor's parts. Warranty is excluded in such cases.
- K2 Systems GmbH reserves the right to exclude liability in case of disregard of our General Safety Instructions as well as in case of installation or mounting of components of a competitor.
- If all safety instructions are adhered to and the system is correctly installed, there is a product warranty entitlement of 12 years! We strongly recommend reviewing our terms of guarantee, which can be viewed at [k2-systems.com/en/warranty-terms-and-conditions](https://www.k2-systems.com/en/warranty-terms-and-conditions) We will also send this information on request.
- Dismantling of the system is performed in reverse order to the assembly.
- K2 stainless steel components are available in different corrosion resistance classes. Each structure or component must be carefully checked for possible corrosion exposure.

The following guidelines apply

This system can be used without further testing by K2 systems under the following standard conditions. It is also suitable for higher requirements, however if a value exceeds the standard conditions, please contact K2 Systems.



Important assembly instructions

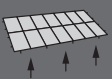
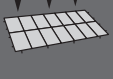
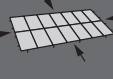
- The general standards and regulations for lightning protection must be observed on site and, where appropriate, a specialist must be consulted in order to draw up a lightning protection concept (use a lightning protection clamp if necessary). Country-specific regulations must be observed.
- Observe the permissible clamping range according to the module manufacturers installation manuals.
- Module frame heights: 25 - 40 mm



Static information

Different static specifications apply depending on the foundations of the N-Rack Kits. This information can be found in the respective section:

- Gabions Page 14
- Concrete foundations Page 20
- Ground Screw foundations Page 26
- Pile-driven foundations Page 30

N-Rack Top Kit	Number of modules	Module sizes		Permissible loads		Lifting support forces	Vertical support forces	Horizontal support forces
				Peak velocity pressure $q_p(z)^*$	Snow load on ground level s_k			
		Length [mm]	Width [mm]**	kN/m ²	kN/m ²	kN	kN	kN
2×7 S	14	1,722 - 1,905	≤ 1,150	0.67	1.75	-6.27	12.17	0.97
2×7 L	14	1,906 - 2,384	≤ 1,150	0.67	1.75	-6.29	11.92	0.96
2×12 S	24	1,722 - 1,905	≤ 1,150	0.67	1.75	-7.03	13.63	1.09
2×12 L	24	1,906 - 2,384	≤ 1,150	0.67	1.75	-6.66	12.63	1.02

* The gust velocity pressure is based on a service life of 50 years. The N-Rack Kits are structurally designed for a service life of 25 years.

** Modules with a frame width of up to 1,303 mm can also be integrated. In this case, the layout is adjusted as follows:

- 2 × 6 modules instead of 2 × 7
- 2 × 10 modules instead of 2 × 12

Overview of the main components

N-Rack Top Kits

2004925

N-Rack Top Kit 2×7 S

2004924

N-Rack Top Kit 2×7 L

2005048

N-Rack Top Kit 2×12 S

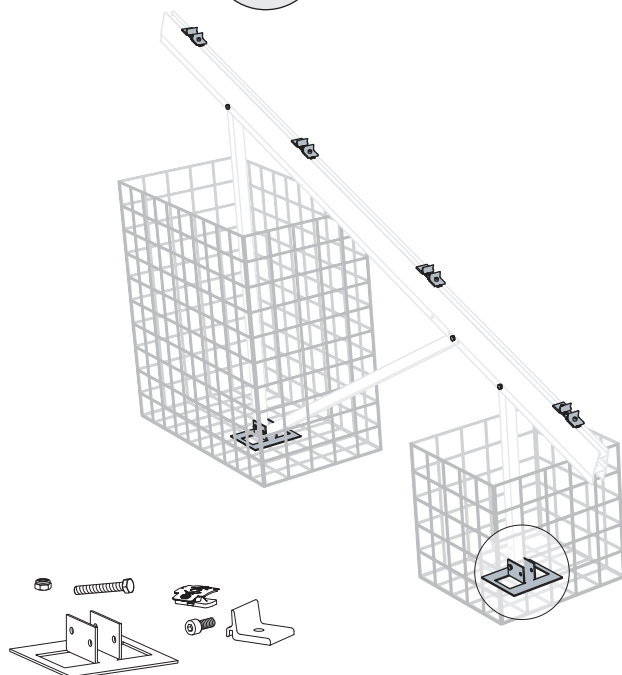
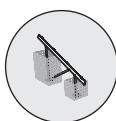
2005047

N-Rack Top Kit 2×12 L

The contents of the N-Rack Top Kits are listed on pages 8 und 9!

N-Rack Ground Kits

Gabions



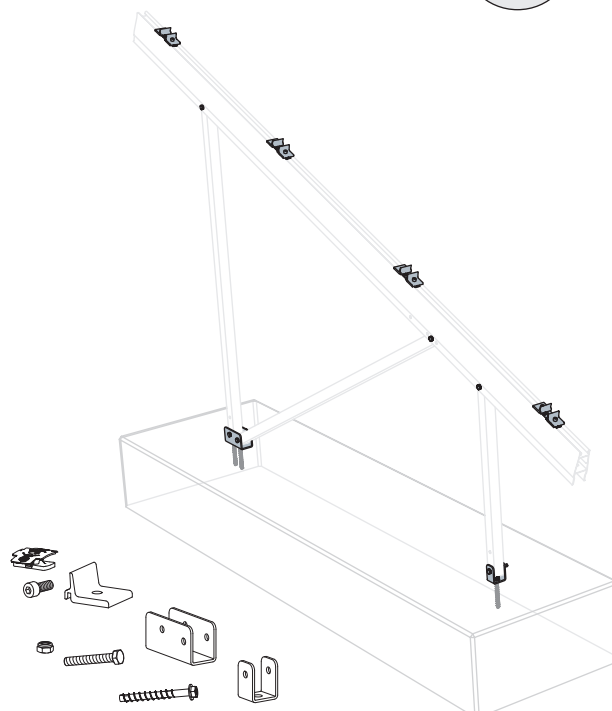
2005110

N-Rack Ground Kit Gabion

See page 14!

Gabions can be sourced through K2 dealers or via an alternative supplied by the client.

Concrete foundations

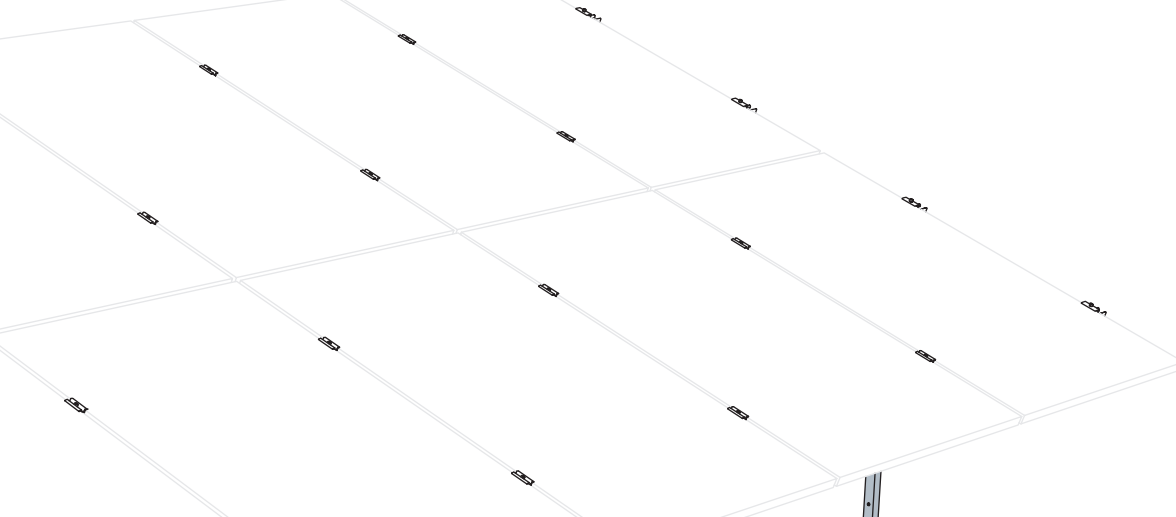


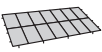
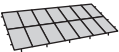
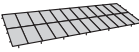
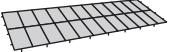
2004926

N-Rack Ground Kit Concrete

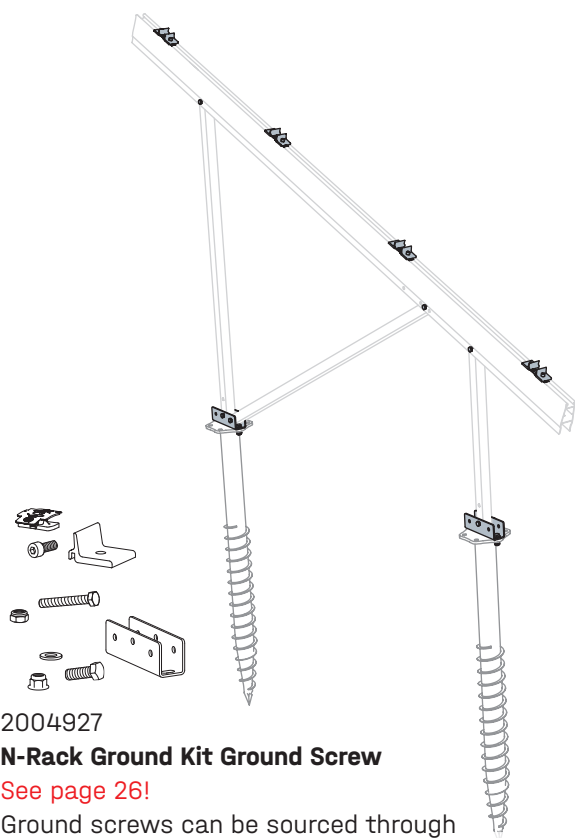
See page 20!

Concrete foundations have to be sourced separately.



N-Rack Ground Kit		N-Rack Top Kit			
		2×7		2×12	
Module lengths		S	L	S	L
S: 1,722 - 1,905 mm					
L: 1,906 - 2,384 mm		1×	1×	1×	1×
Module widths		2004925	2004924	2005048	2005047
S/L: ≤1,150 mm					
Foundation type	Article no.	Required quantity of N-Rack Ground Kits per N-Rack Top Kit			
Gabions	2005110	4×	5×	6×	8×
Concrete foundations	2004926				
Ground Screw foundations	2004927				
Pile-driven foundations	2005113				

Ground Screw foundations



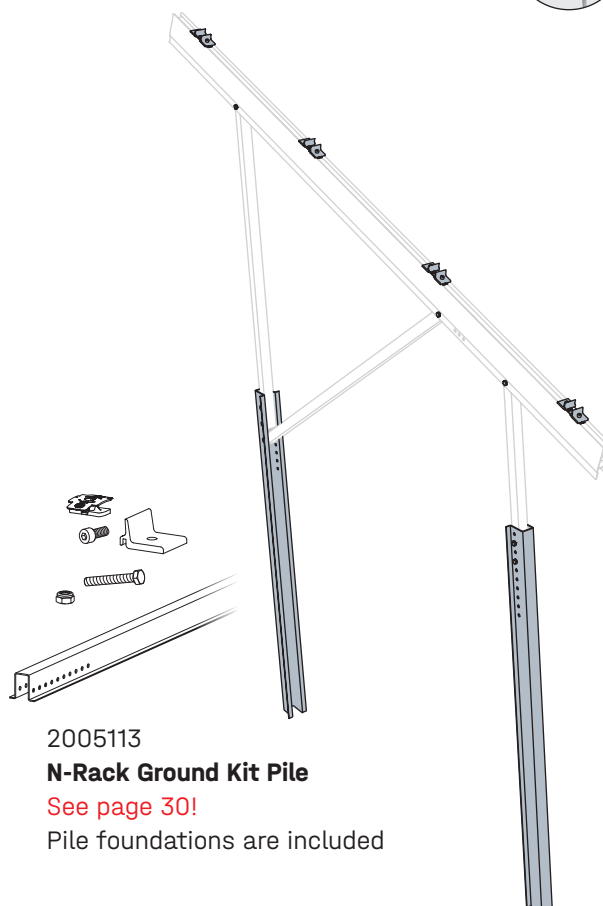
2004927

N-Rack Ground Kit Ground Screw

See page 26!

Ground screws can be sourced through K2 dealers or via an alternative supplied by the client.

Pile-driven foundations



2005113

N-Rack Ground Kit Pile

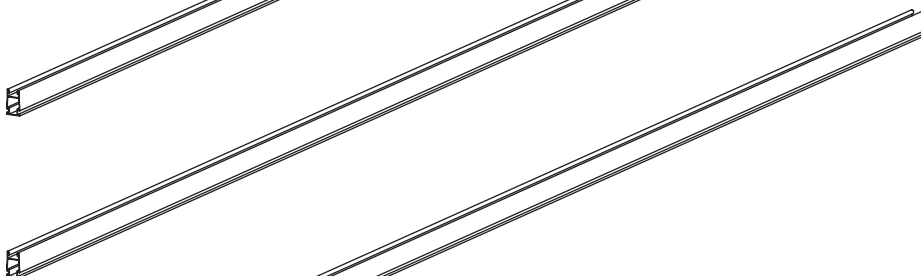
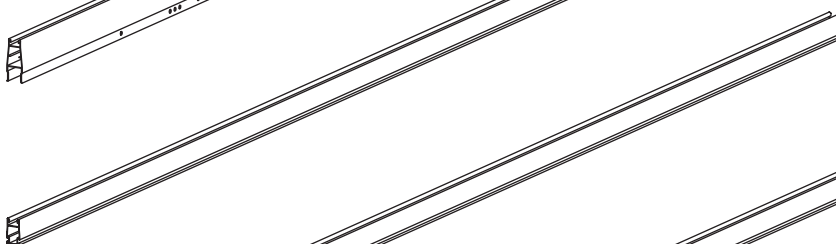
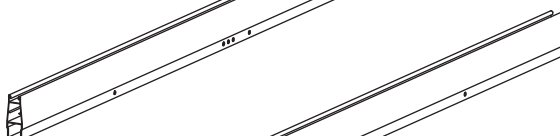
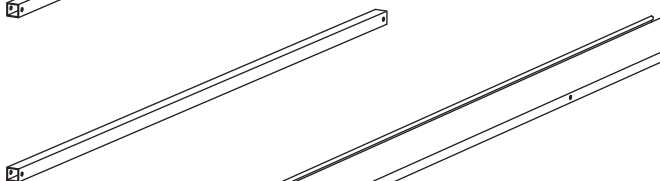
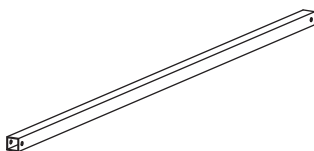
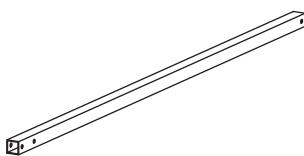
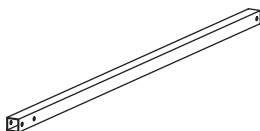
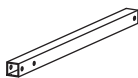
See page 30!

Pile foundations are included

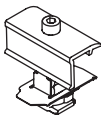
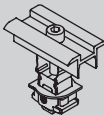
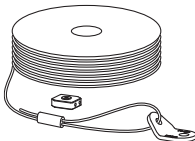
List of articles

N-Rack Top Kits

Article quantity				Article
2×7		2×12		
S	L	S	L	
4×	5×	6×	8×	2004401 3-Hole Brace N-Rack 715
4×		6×		2004402 3-Hole Brace N-Rack 1370
	5×		8×	2004403 3-Hole Brace N-Rack 1625
4×		6×		2004404 2-Hole Brace N-Rack 1696
	5×		8×	2004411 2-Hole Brace N-Rack 2072
	5×		8×	2004399 Beam N-Rack 3750
4×		6×		2004400 Beam N-Rack 3020
4×	4×			2005064 CrossRail 73 3.3 m
		8×	8×	2004460 CrossRail 73 4.55 m
4×	4×	4×	4×	2004461 CrossRail 73 5 m

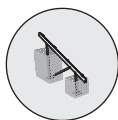


Small parts

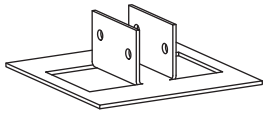
Article quantity				Article	
2×7		2×12			
S	L	S	L		
4×	4×	8×	8×	2004409 CrossRail 73 Connector	
20×	20×	40×	40×	1001051 Drilling Screw 5.5 × 25 A2	
8×	8×	8×	8×	2004543 K2 Clamp EC 25 - 40	
24×	24×	44×	44×	2004146 K2 Clamp MC 25 - 40	
2×	2×	2×	2×	2004410 Wind Bracing Set	

N-Rack Ground Kits

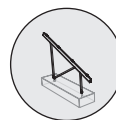
Gabion



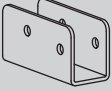
An **N-Rack Ground Kit Gabion 2005110** contains the following items:

Article quantity	Article	
2×	2005109 N-Rack Gabion Foot	
7×	2004408 Hexagon Head Screw M10 × 70	
7×	1002849 Hexagon Locking Nut M10	
8×	2003145 Climber 36/50 Set	

Concrete



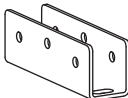
An **N-Rack Ground Kit Concrete 2004926** contains the following items:

Article quantity	Article	
1×	2004391 N-Rack Foot Front	
1×	2004392 N-Rack Foot Back	
3×	2004407 Heco Multi-Monti 12 × 105	
7×	2004408 Hexagon Head Screw M10 × 70	
7×	1002849 Hexagon Locking Nut M10	
8×	2003145 Climber 36/50 Set	

Ground screw



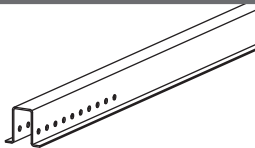
An **N-Rack Ground Kit Groundscrew 2004927** contains the following items:

Article quantity	Article	
2×	2004896 N-Rack GS Foot	
4×	2004902 Hexagon Head Screw M12 × 35	
4×	2004910 Washer M12	
4×	2004903 Hexagon Nut M12	
9×	2004408 Hexagon Head Screw M10 × 70	
9×	1002849 Hexagon Lock- ing Nut M10	
8×	82003145 Climber 36/50 Set	

Pile

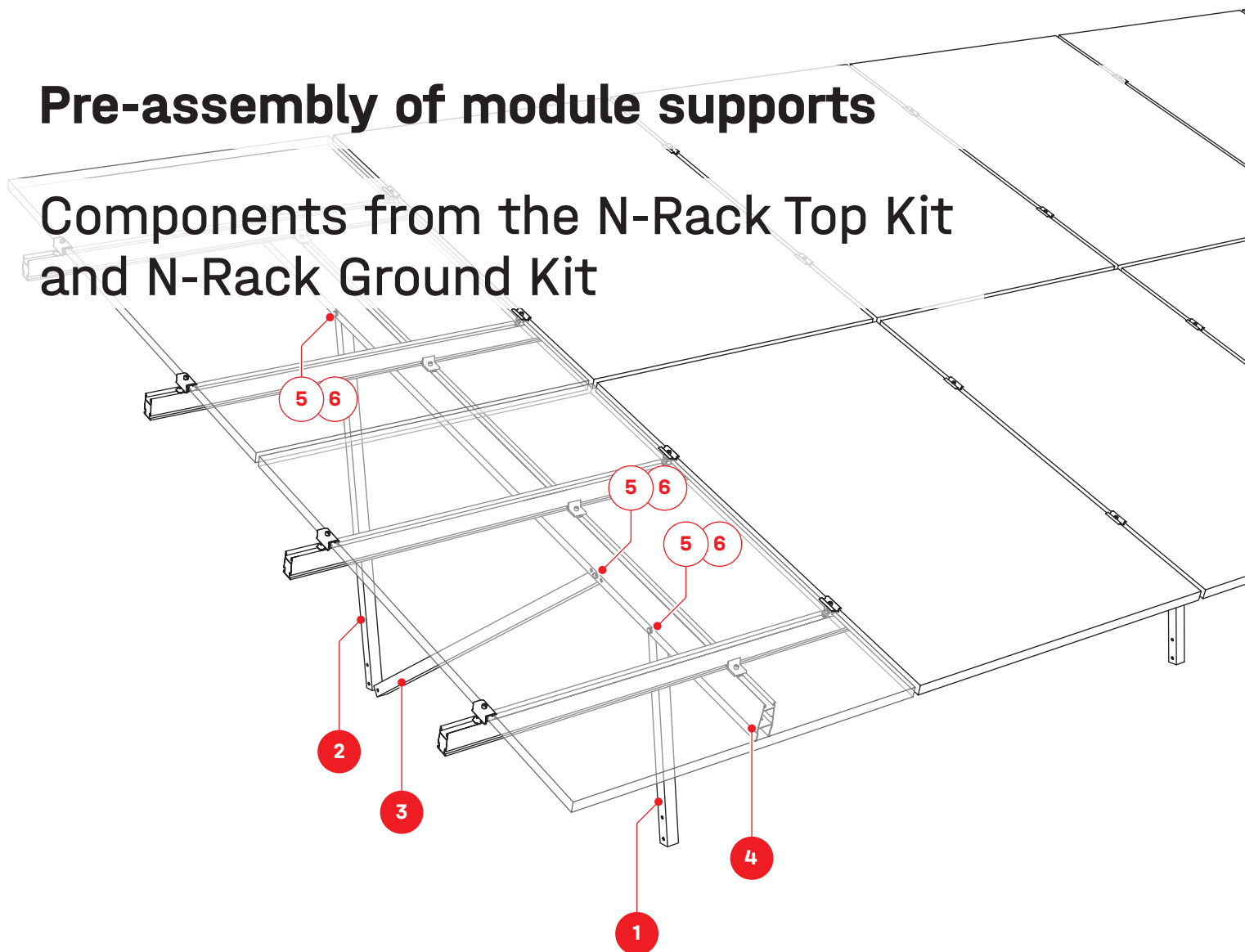


An **N-Rack Ground Kit Pile 2005113** contains the following items:

Article quantity	Article	
2×	2005112 Cap Profile N-Rack 2,3 m	
7×	2004408 Hexagon Head Screw M10 × 70	
7×	1002849 Hexagon Lock- ing Nut M10	
8×	2003145 Climber 36/50 Set	

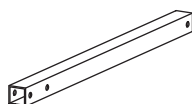
Pre-assembly of module supports

Components from the N-Rack Top Kit and N-Rack Ground Kit

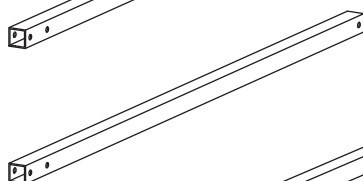


N-Rack Top Kit

1 3-Hole Brace N-Rack



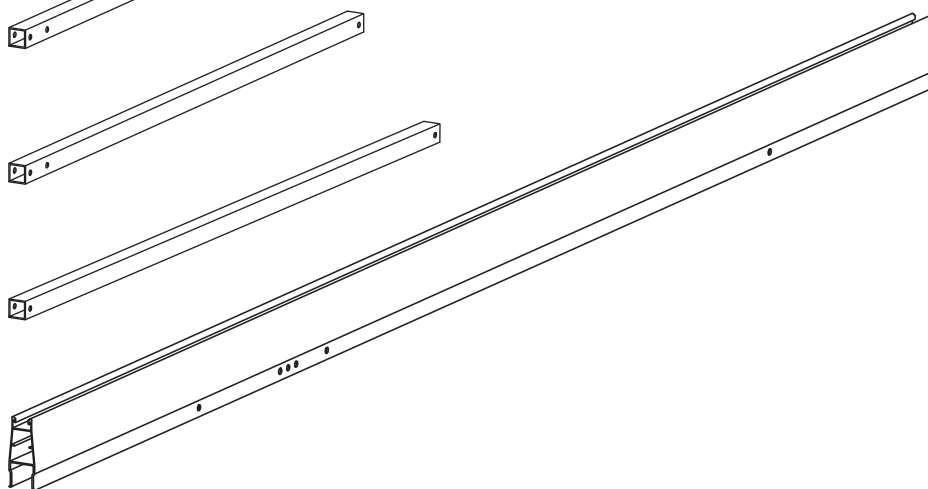
2 3-Hole Brace N-Rack



3 2-Hole Brace N-Rack



4 Beam N-Rack



N-Rack Ground Kit

5 Hexagon Head Screw with Shank M10 × 70



6 Hexagon Locking Nut M10

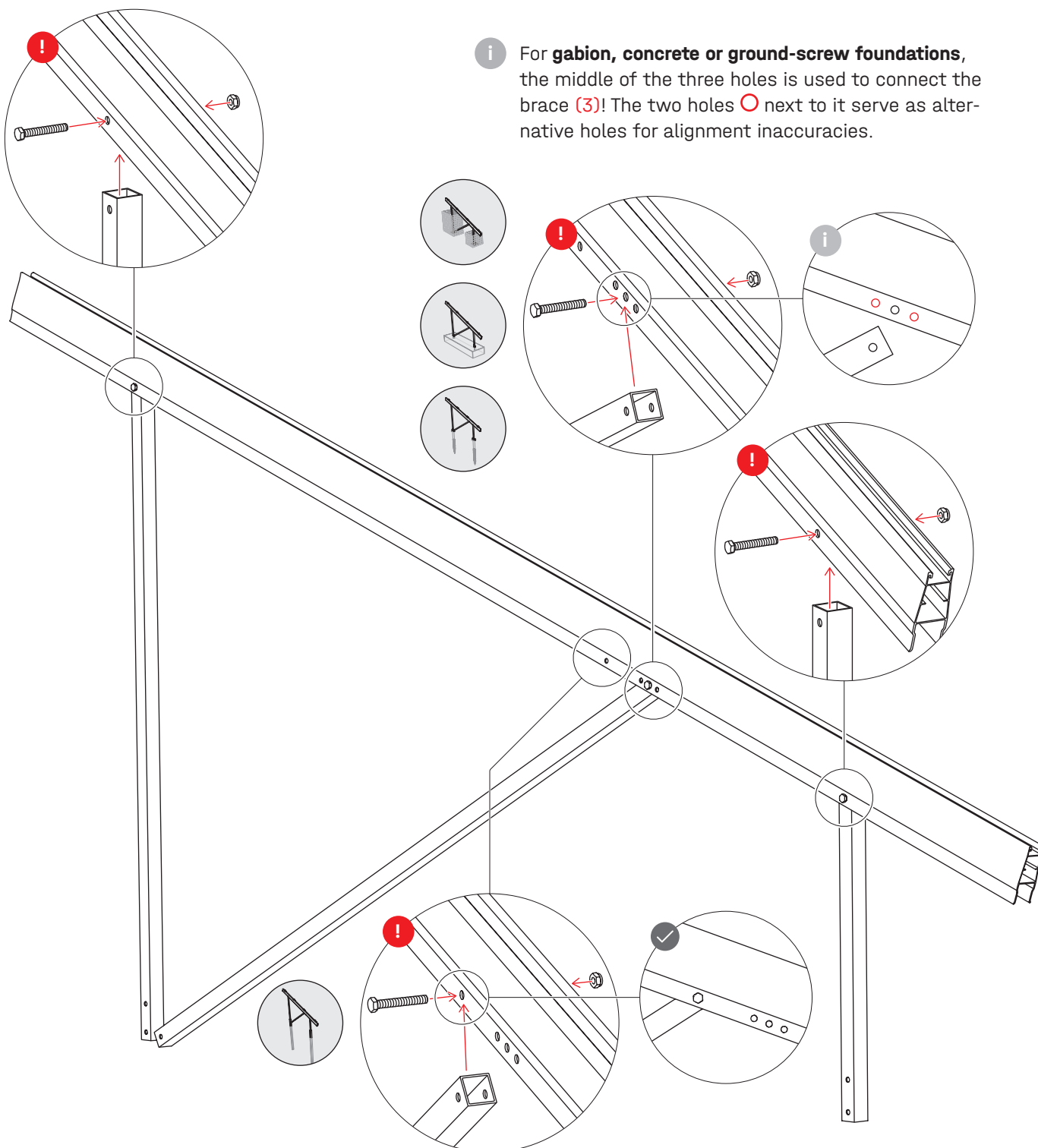


Supports

1

! Tighten screws only by hand.

i For **gabion, concrete or ground-screw foundations**, the middle of the three holes is used to connect the brace (3)! The two holes ○ next to it serve as alternative holes for alignment inaccuracies.



For **pile-driven foundations**, the brace (3) must be connected to the individual hole!

Gabions

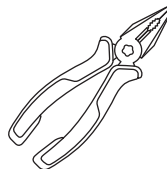


General guidelines

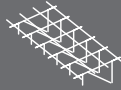


Soil requirements

The substrate must be compressed and non-skid in accordance with the recognised rules of engineering (in particular: DIN EN 1997-1-Eurocode7-Geotechnical Design) to guarantee the permanent positional safety of the structure.



Structural requirements

N-Rack Top Kit 	Number of modules 	Filling weight	
		 kg	 kg
2×7 S	14	220	700
2×7 L	14	230	700
2×12 S	24	240	790
2×12 L	24	240	740

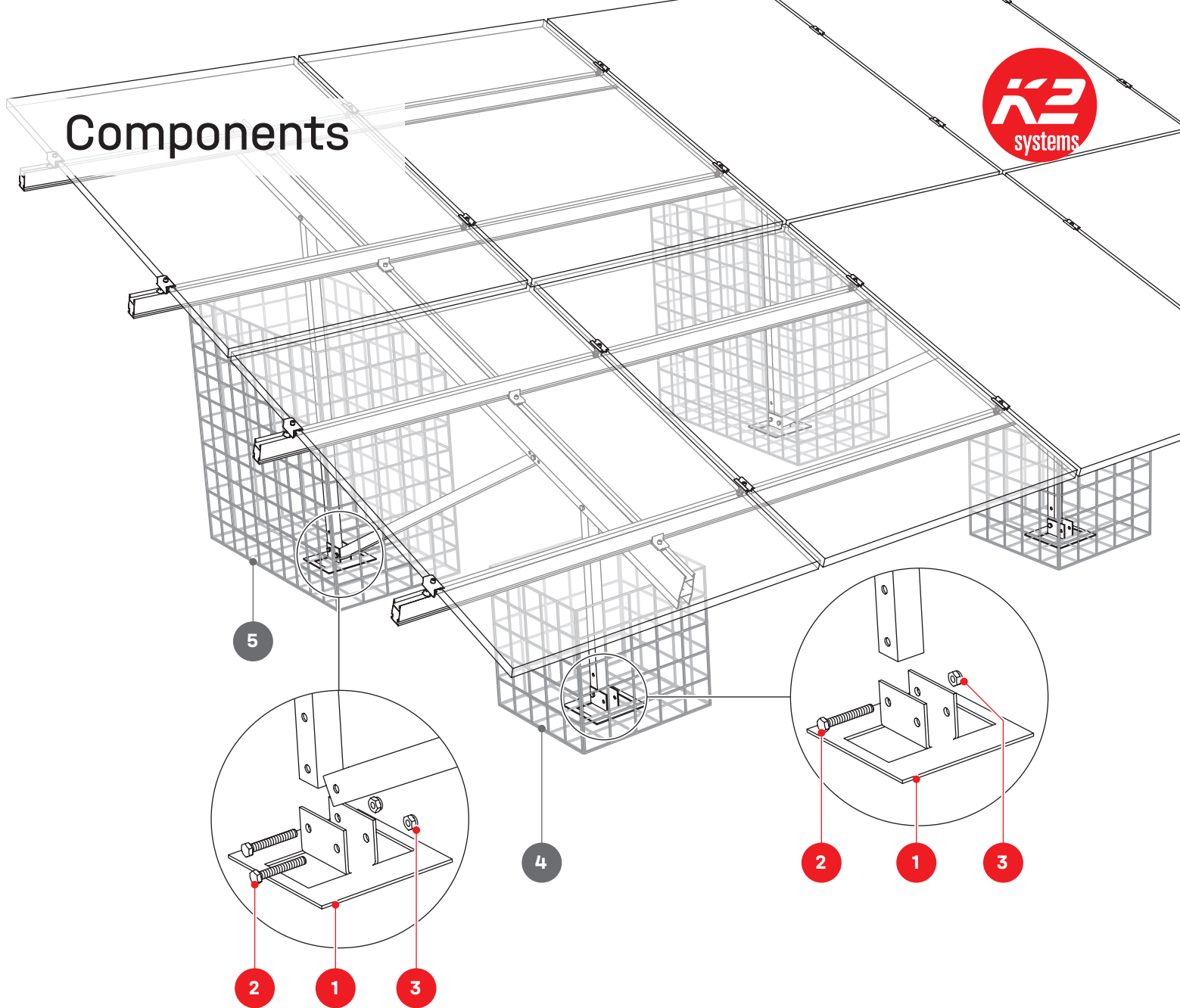
Important notes

Gabions shall be filled with stones / aggregate that is frost- & weather-resistant, sufficiently pressure-resistant and has minimal voids.

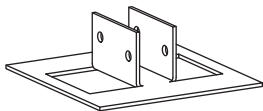
The information from the gabion manufacturer must be observed

The assembly instructions for the gabions (item no. 2005184 Gabion 50×50×50 and item no. 2005185 Gabion 100×50×100) are available here: www.rothfuss-bestgabion.de/wp-content/uploads/2025/02/Assembly-instructions-ROKO-EN.pdf

Components



N-Rack Ground Kit Gabion



1 2005109
N-Rack Gabion Foot

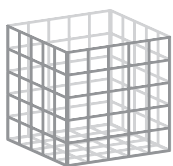


2 2004408
Hexagon Head Screw
with Shank M10 × 70

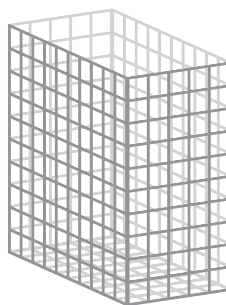


3 1002849
Hexagon Locking Nut
M10

Required - not included



4 2005184
Gabion 50×50×50
To be sourced separately



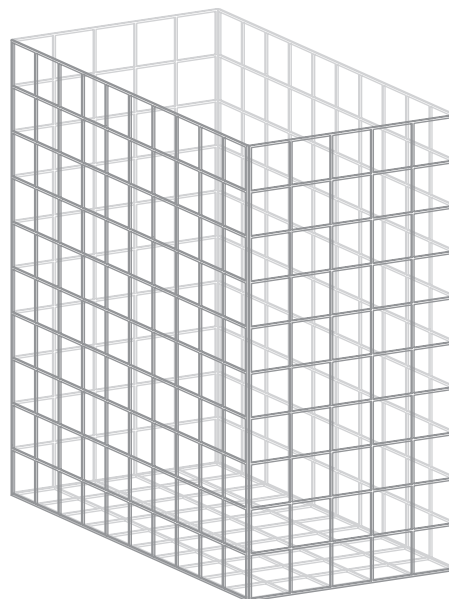
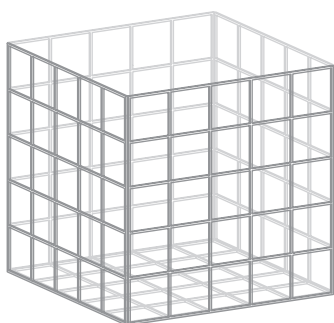
5 2005185
Gabion 100×50×100
To be sourced separately

Installation

Preparing gabions

- 1a** Observe the manufacturer's assembly instructions when setting up the gabions.

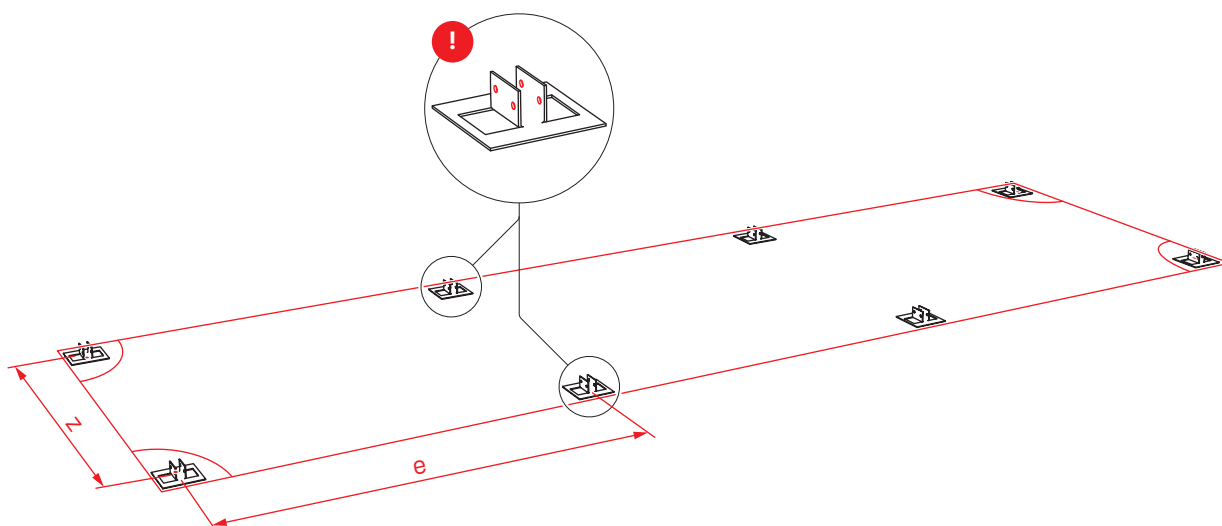
The assembly instructions for the gabions (item no. 2005184 Gabion 50×50×50 and item no. 2005185 Gabion 100×50×100) are available here: [Assembly-instructions.pdf](#)



To make it easier to install the support, the rear side mesh should remain open.

Spacing

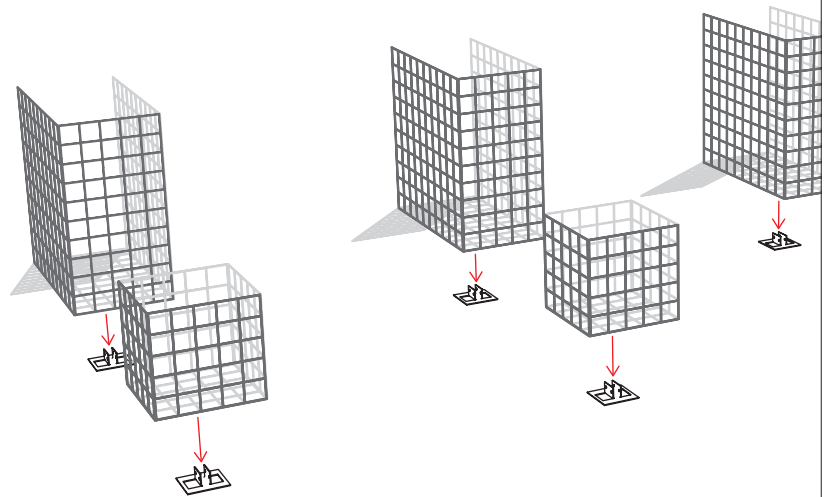
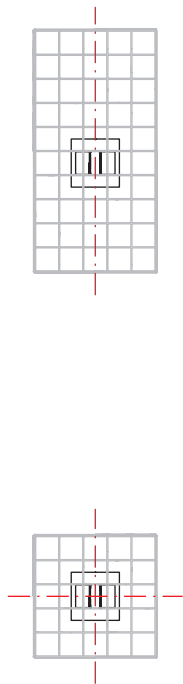
- 1b** Values **e** and **z** in the system data sheets "Gabions" from page 40 onwards.



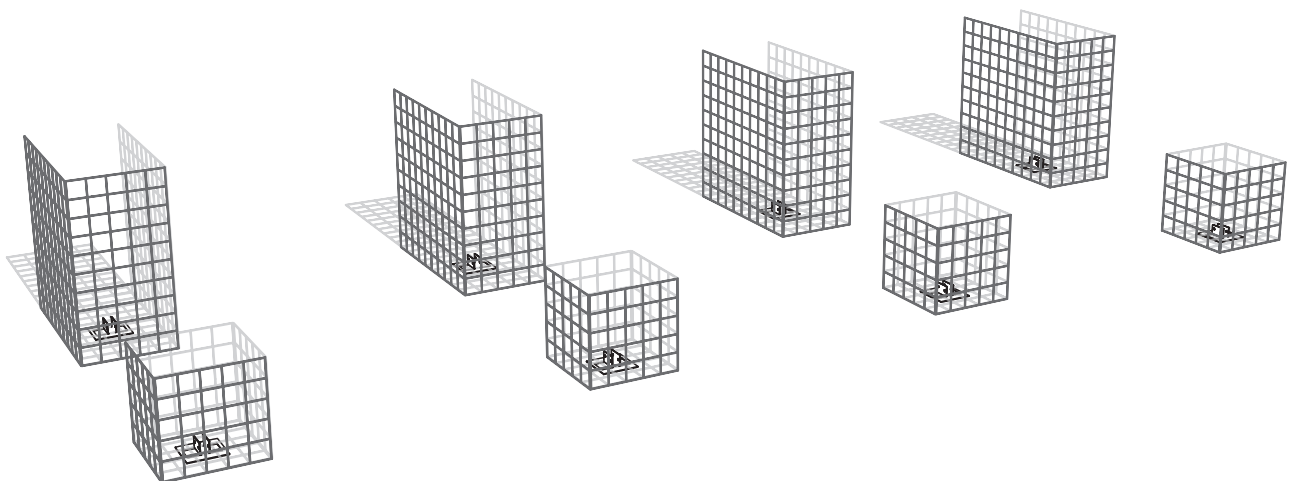
- !** Observe the alignment of the N-Rack Gabion Foot

Positioning gabions

2a

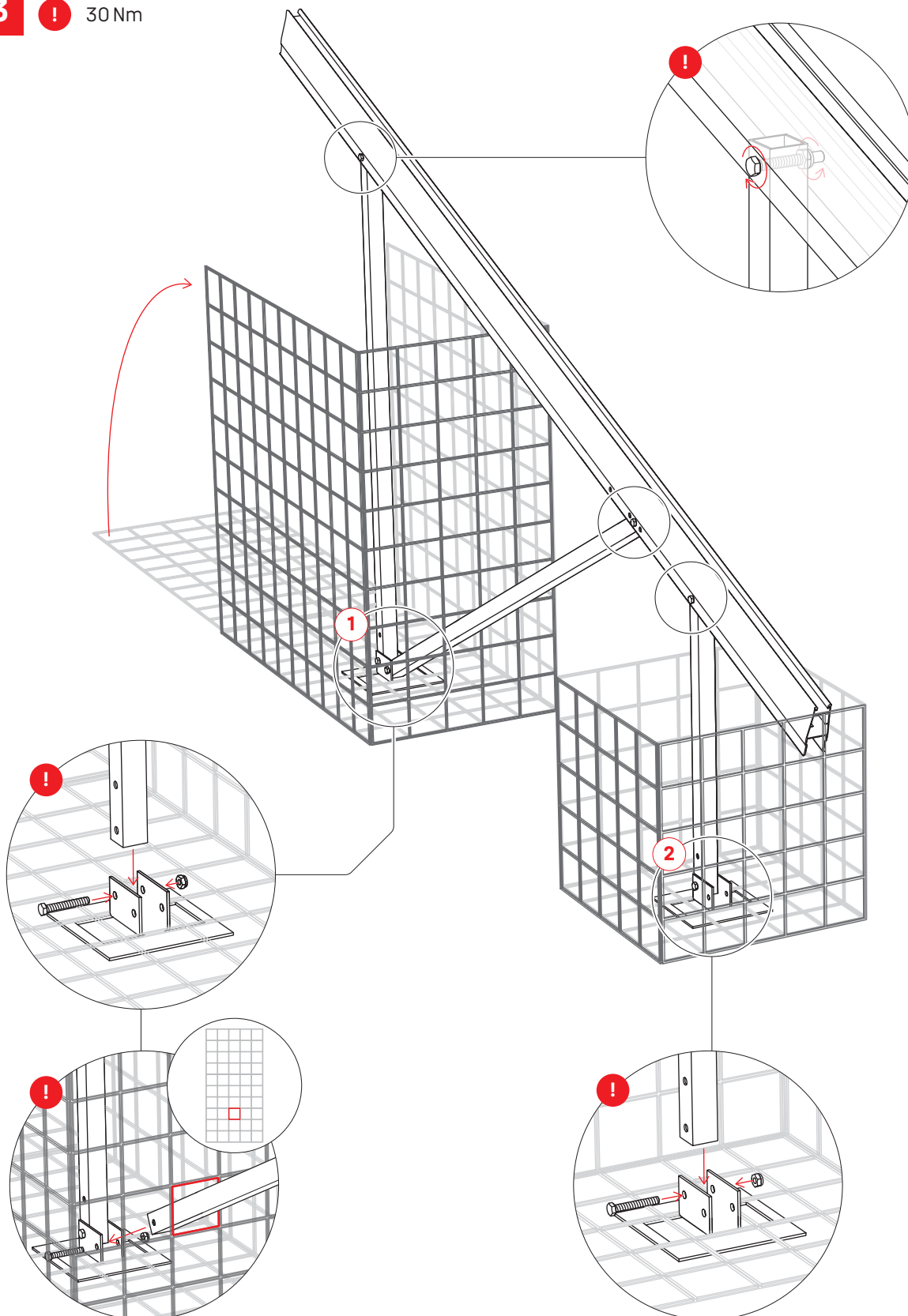


2b



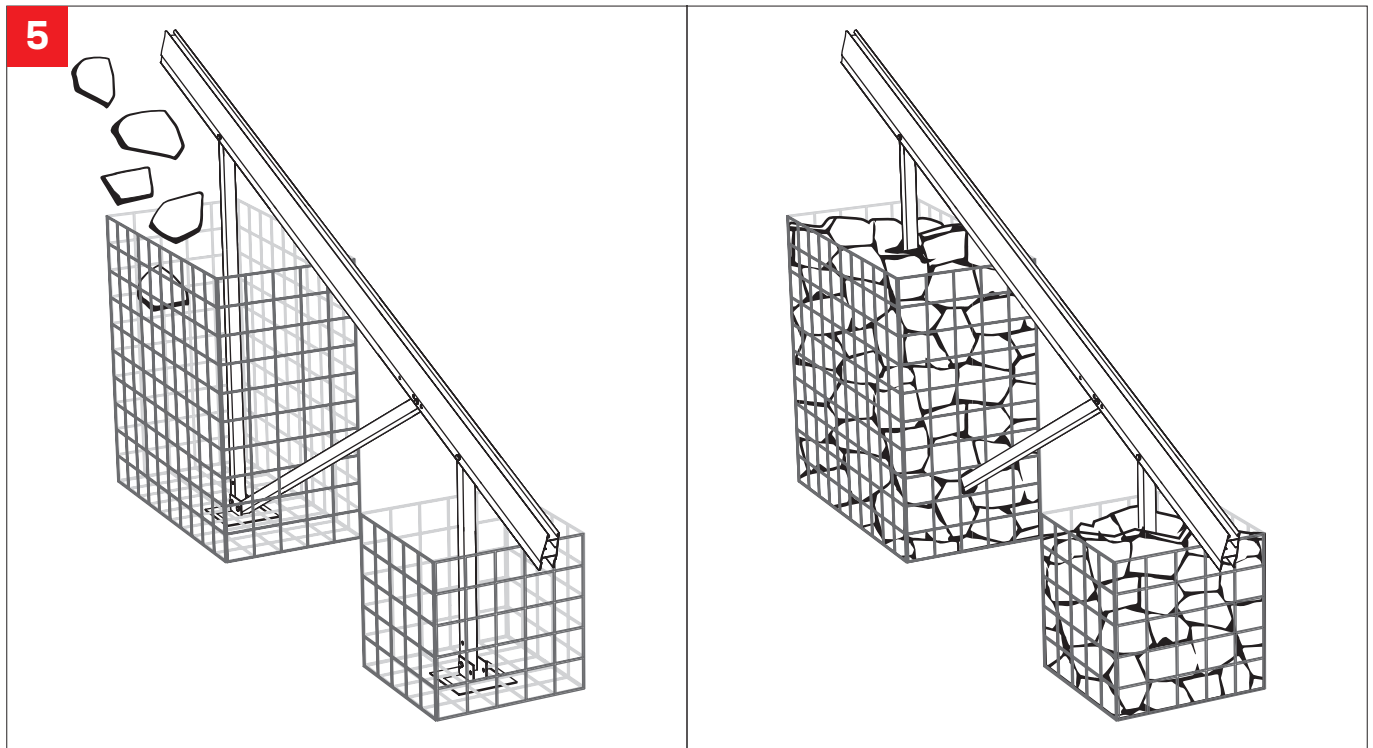
Connecting supports

3 ! 30 Nm

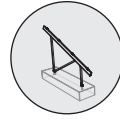


No wind bracing is required for the N-Rack Kit with gabions.

Adding bulk material



Concrete foundations



General guidelines



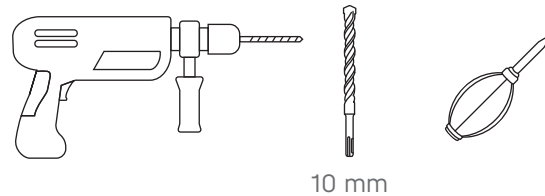
Soil requirements

The substrate must be compressed and non-skid in accordance with the recognised rules of engineering (in particular: DIN EN 1997-1-Eurocode7-Geotechnical Design) to guarantee the permanent positional safety of the structure.

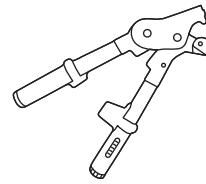
Structural requirements

The concrete foundations are pre-dimensioned to protect against uplift and tilting as a result of the wind loads. Reinforcement of the foundations must be provided as shown in the schematic diagram "Dimensions" on page 22. Determination of the final dimension of the concrete foundations and their reinforcement plan must be checked on site.

Additional tools

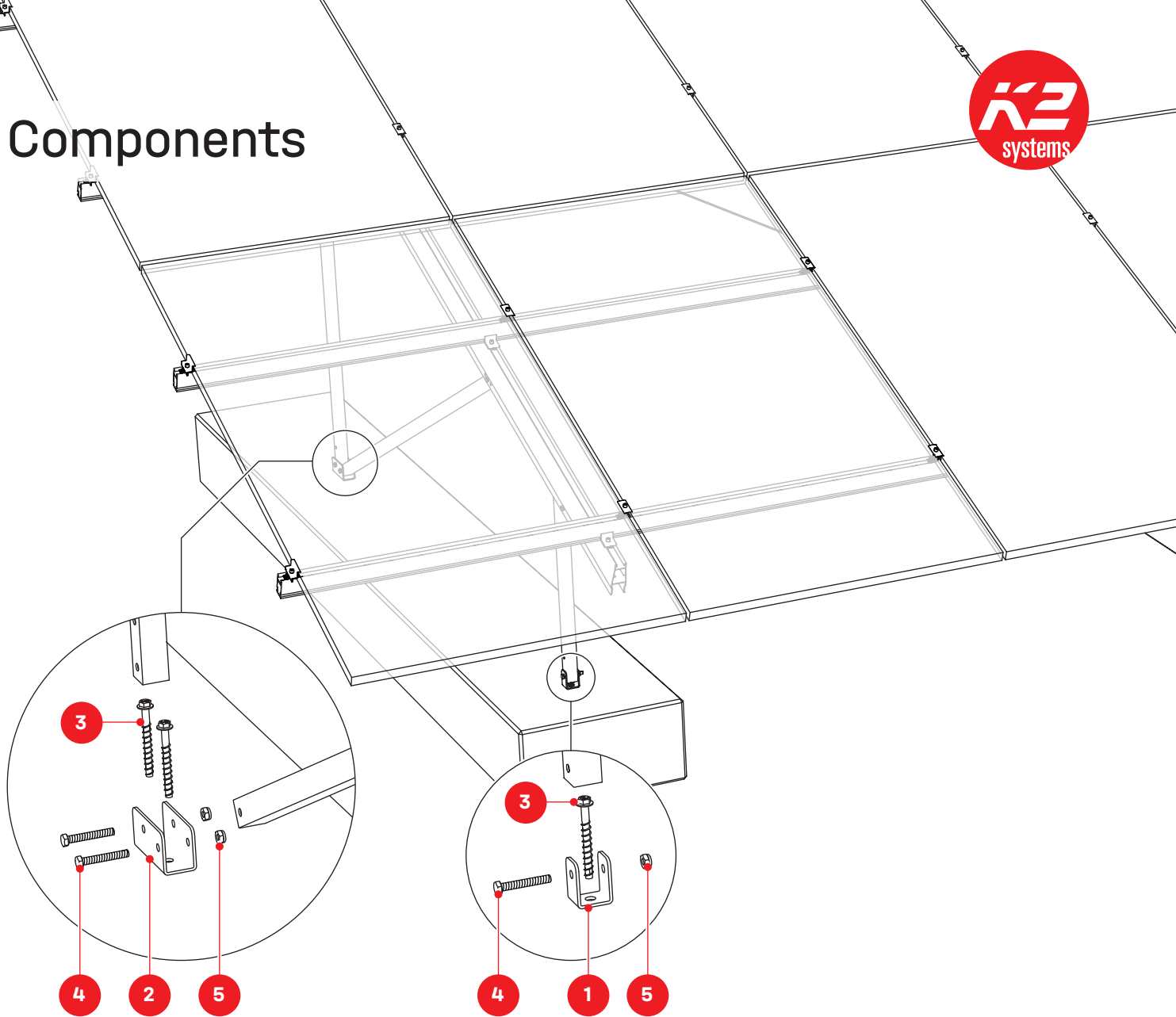


10 mm



Gripple Collet Chuck 400 · 2004456

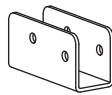
Components



N-Rack Ground Kit Concrete



1 2004391
N-Rack Concrete Foot Front



2 2004392
N-Rack Concrete Foot Back



3 2004407
Heco Multi-Monti 12 × 105



4 2004408
**Hexagon Head Screw
with Shank M10 × 70**



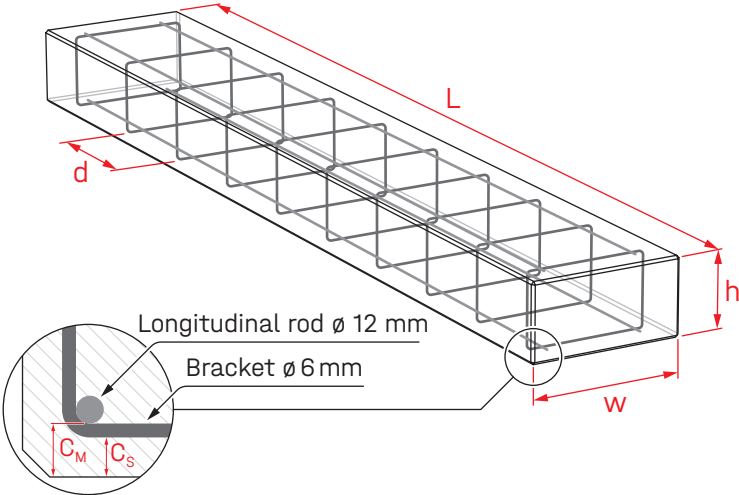
5 1002849
**Hexagon Locking Nut
M10**

Installation

Dimensions

i

The concrete foundations must be sourced separately and build on site.



Reinforcing steel: B500

Concrete strength: min. C25/30

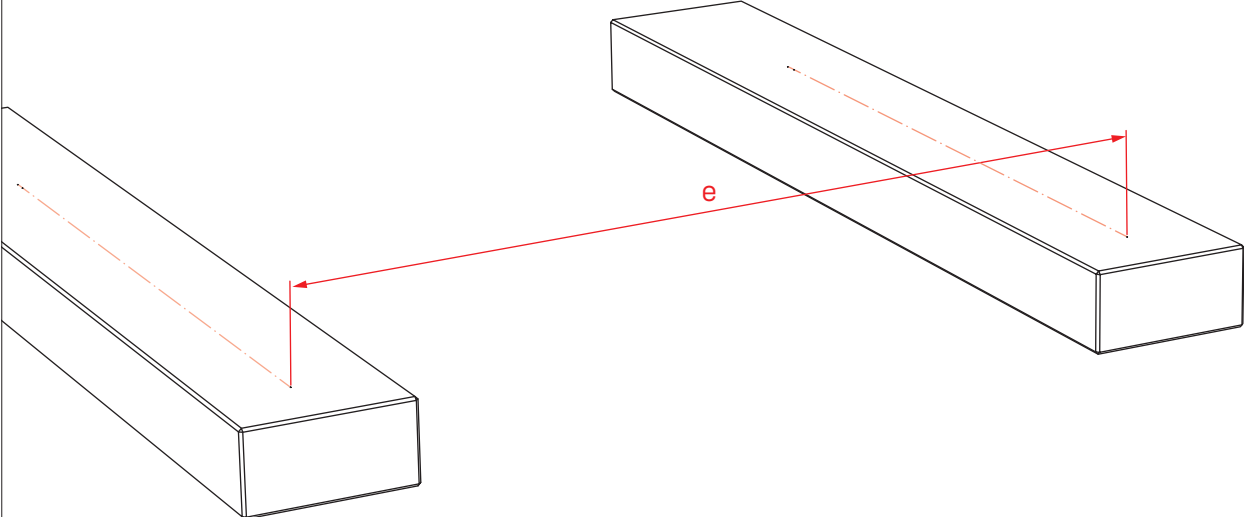
Concrete covering of the reinforcement: $C_M/C_S \geq 0.04\text{ m}$

N-Rack	2×7 S	2×7 L	2×12 S	2×12 L
L [m]	2.80	3.40	2.80	3.40
w[m]	0.45	0.45	0.78	0.72
h [m]	0.40	0.40	0.40	0.40
V [m³]	0.50	0.61	0.87	0.98
d [m]	0.30	0.30	0.30	0.30
Quantity of brackets	10 ×	12 ×	10 ×	12 ×

Spacing

1

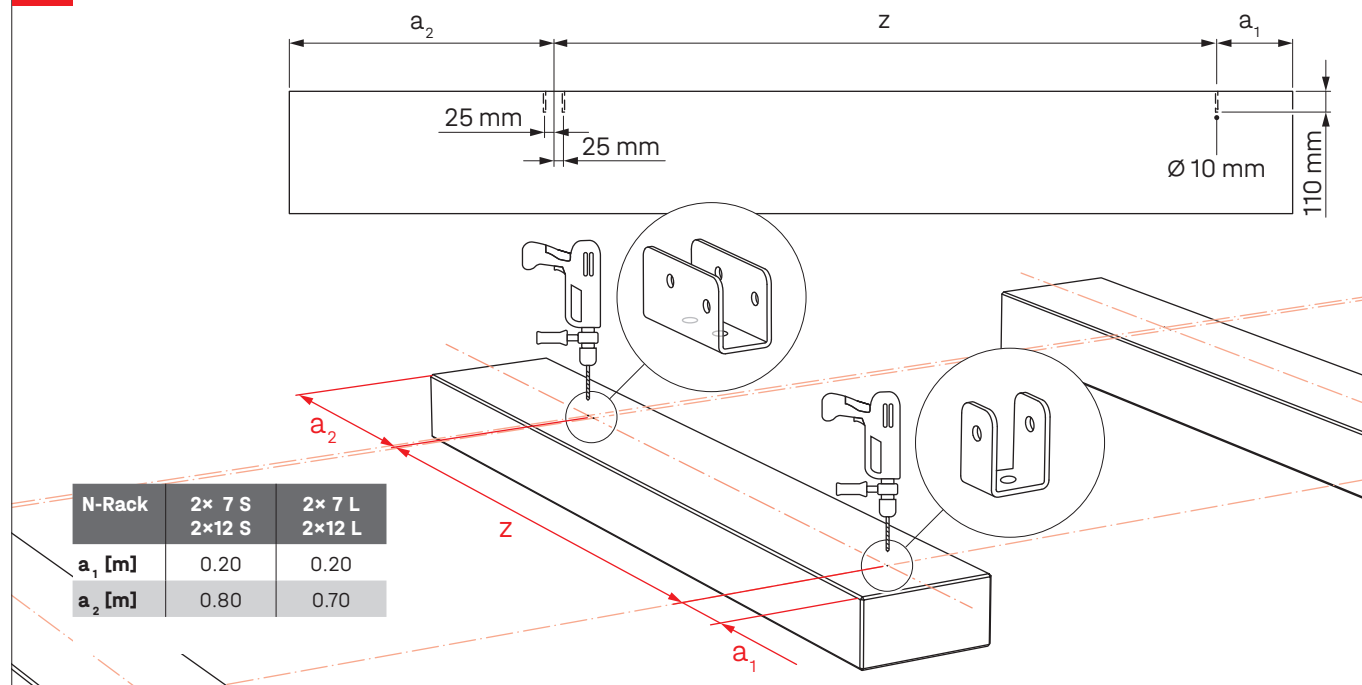
Values **e** and **z** in the system data sheets "Concrete foundations" from page 48 onwards.



Pre-drilled anchor holes

2

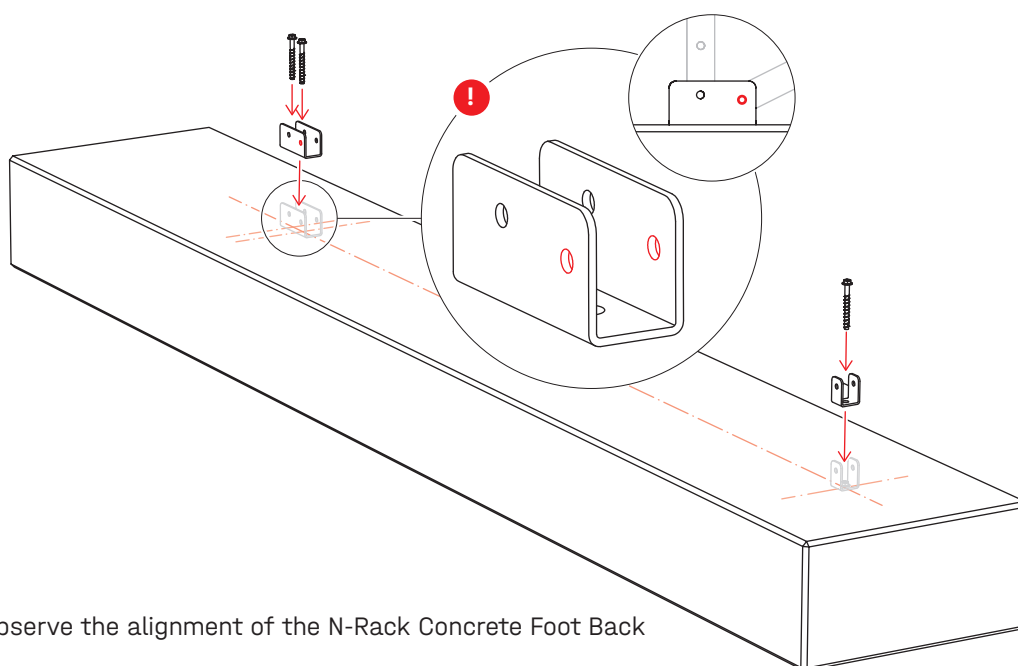
Value z in the system data sheets "Concrete foundations" from page 48 onwards.



Fixing the anchors and connection

3

! 90 Nm

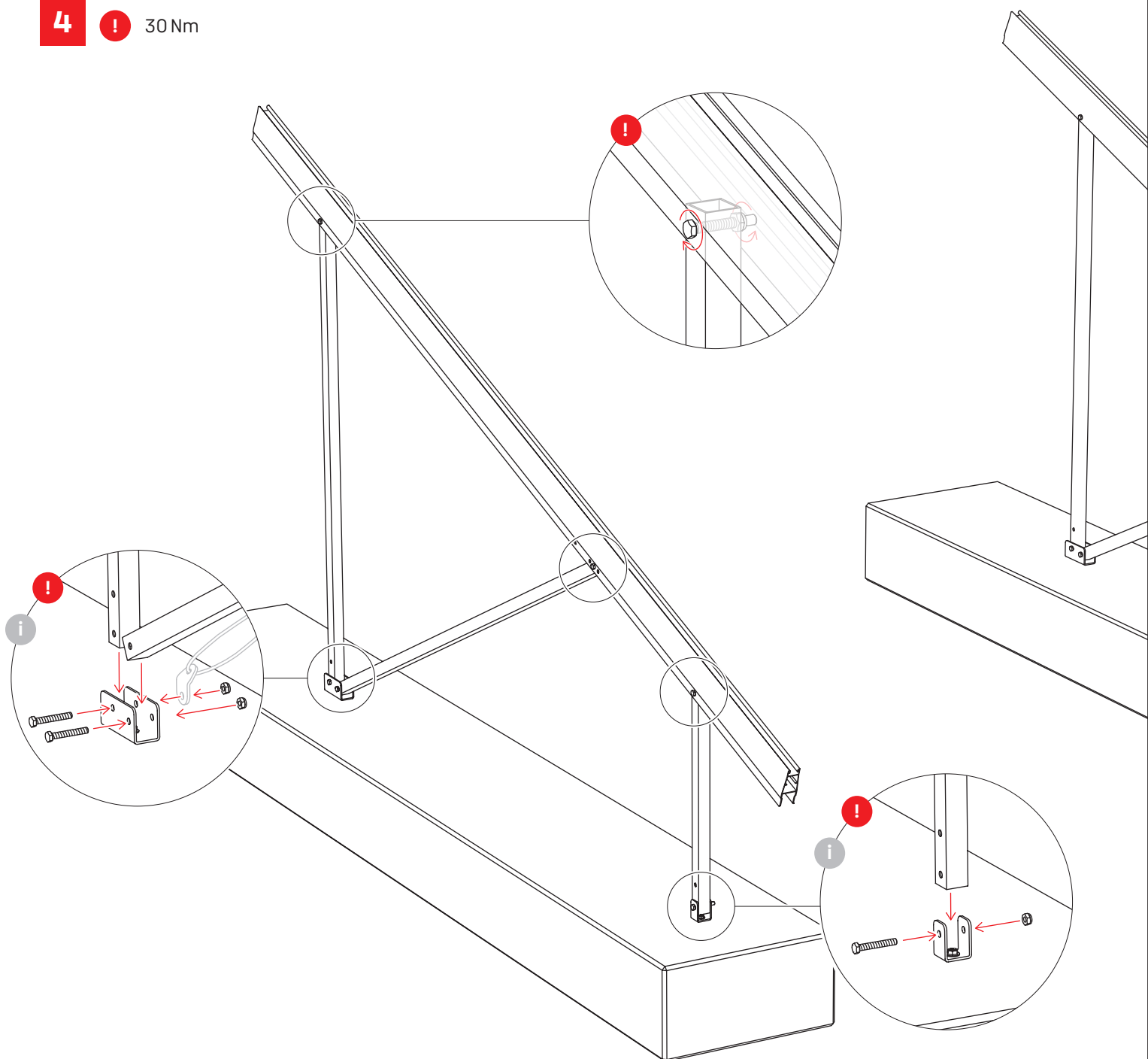


Connecting supports

4

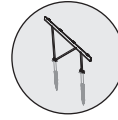


30 Nm



- i** Attaching the wind bracing to the outer concrete foundations. "Setting up wind bracing" on page 38.

Ground screw foundations



General guidelines



Subsoil assumption

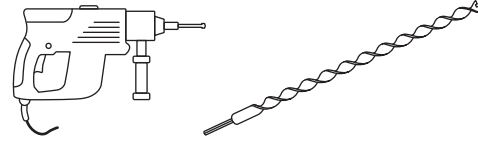
The quantity and required size of the respective screw foundations always depends on the type of soil, size and weight as well as wind and snow loads on the planned structures. It is assumed that it will be soil class TL/TM in accordance with DIN 18196, with a semi-solid consistency (DIN 1422). The basis for the final foundation dimensions is the soil condition to be determined on site and the structural analysis of the load-bearing capacity, based on an applicable static calculation model.



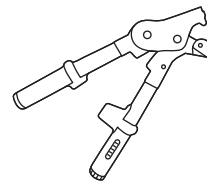
Structural requirements

- Kit requirements
 - 1.2 – 1.25 m insertion depth of the Krinner M16 screw foundations to ≤ 1.75 kN snow and ≤ 0.67 kN wind

Additional tools



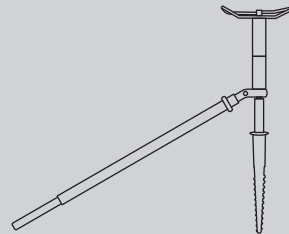
Drill hammer incl. drill 25 mm



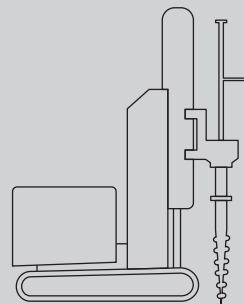
Gripple Collet Chuck 400 · 2004456



Equipment/machines for screwing in the ground screw foundations are available from a construction machinery rental facility. Alternatively, a garden and landscaping company can be commissioned.

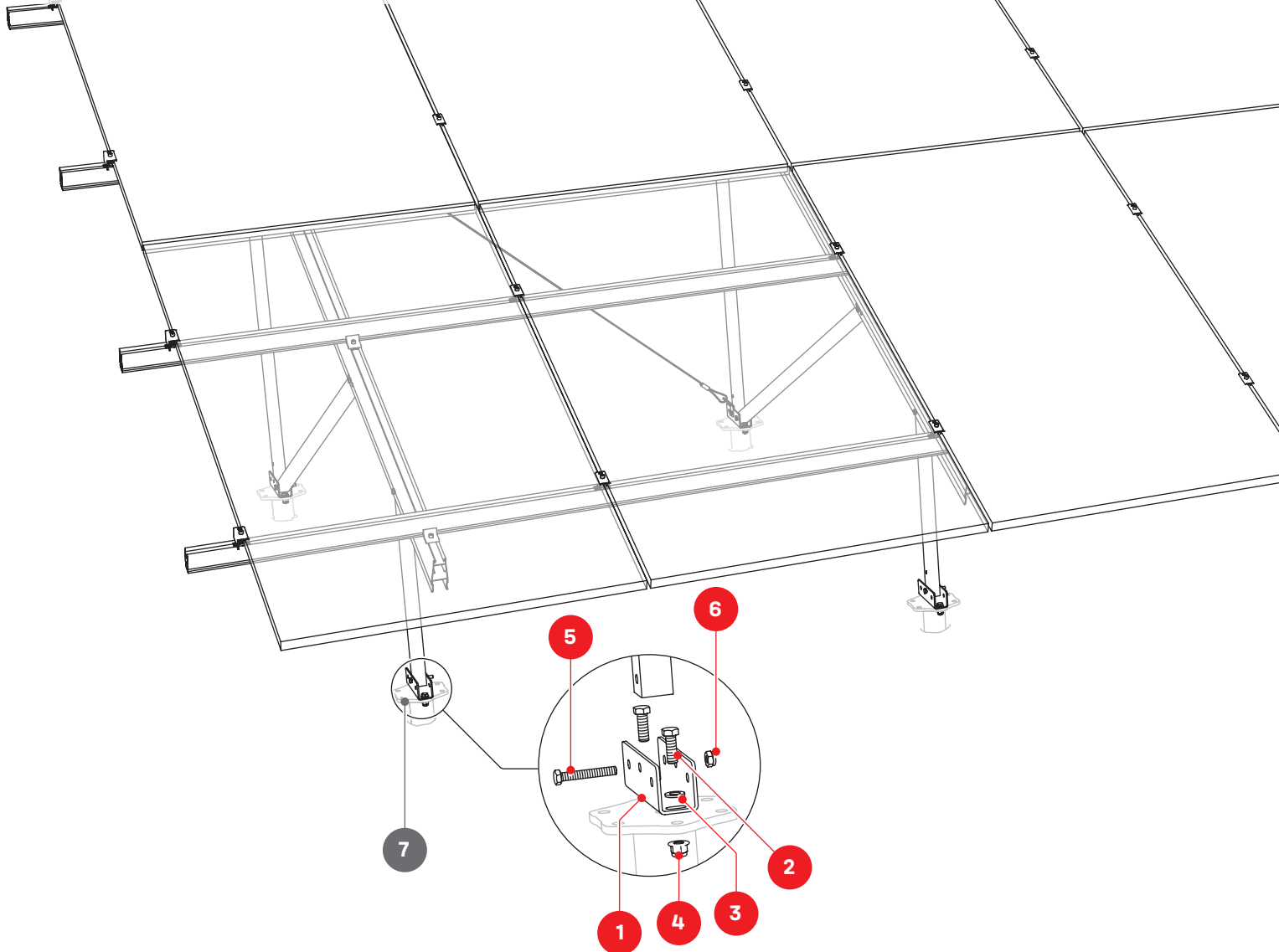


Ground screw driver, e.g.: Krinner KR E 20-SC

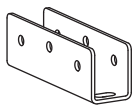


Self-driving caterpillars, e.g.: Krinner KR D 30-CO

Components



N-Rack Ground Kit Ground Screw



1 2004896
N-Rack GS Foot



2 2004902
Hexagon Head Screw
M12 x 35



3 2004910
Washer M12



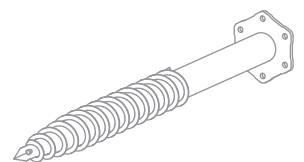
4 2004903
Hexagon nut with
flange M12



5 2004408
Hexagon Head Screw
with Shank M10 x 70



6 1002849
Hexagon Locking
Nut M10



7 2005095
Screw Foundations 1.30 m
KSF M76 1300 M16
To be sourced separately..

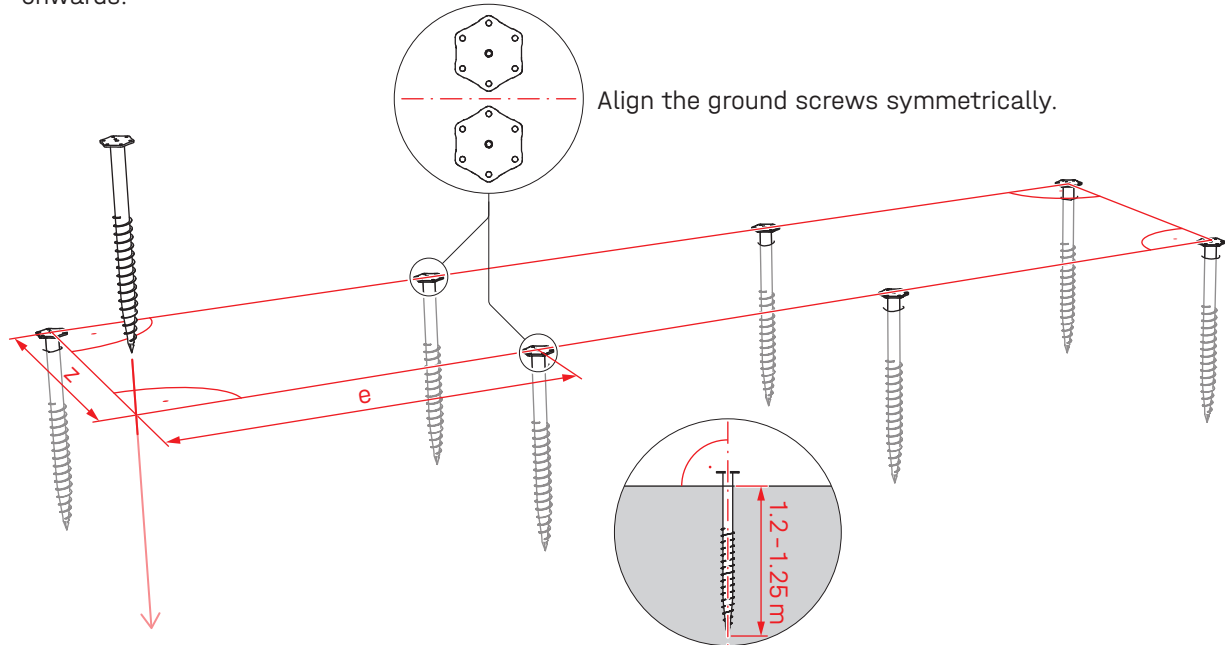
Required - not included

Installation

Foundation work and spacing

1

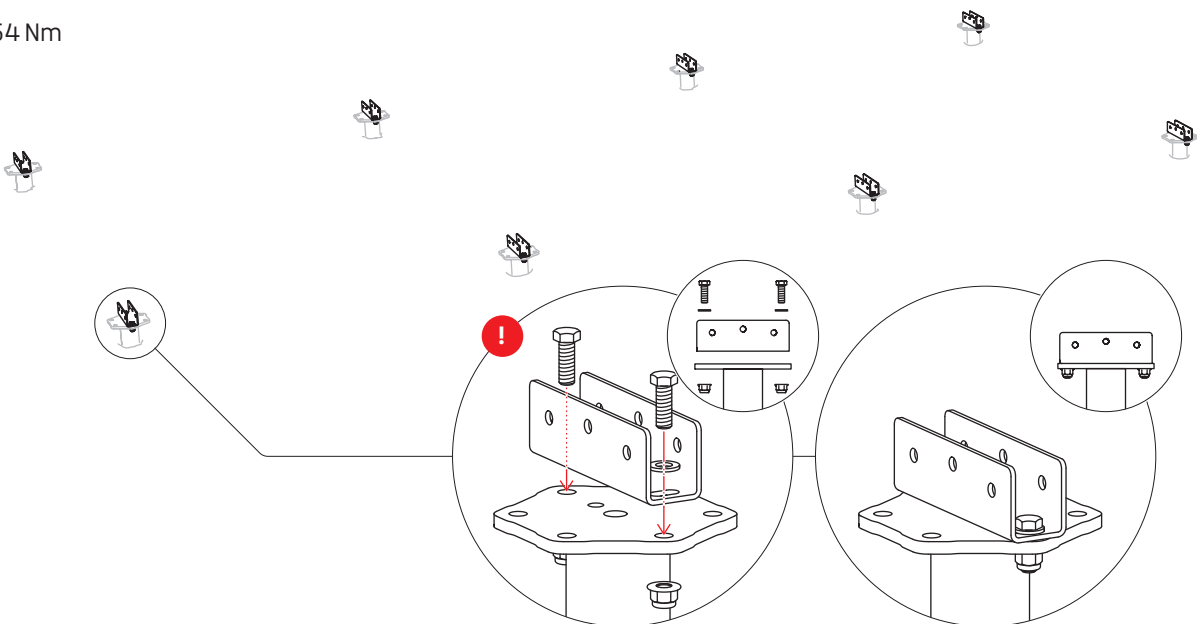
Values **e** and **z** in the system data sheets "Ground screw foundations" from page 56 onwards.



2a

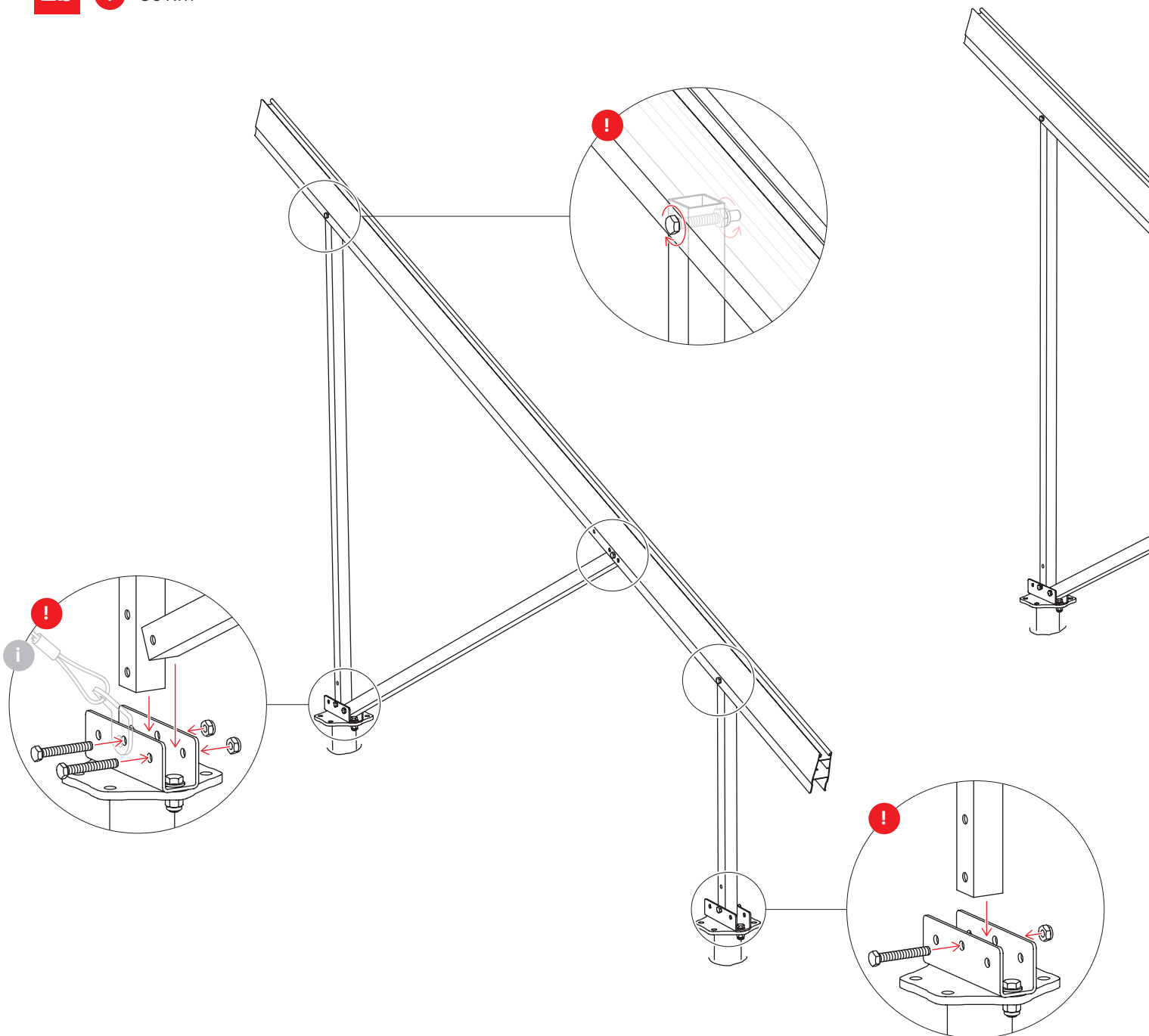


54 Nm



Connecting supports

2b ! 30 Nm



i Attaching the wind bracing: "Setting up wind bracing" on page 38.

Pile-driven foundations



General guidelines



Soil requirements

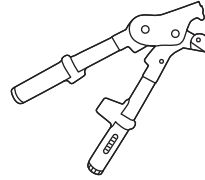
The quantity and required size of the respective piles always depends on the type of soil, size and weight as well as wind and snow loads on the planned structures. It is assumed that it will be soil class TL/TM in accordance with DIN 18196, with a semi-solid consistency (DIN 1422). The basis for the final foundation dimensions is the soil condition to be determined on site and the structural analysis of the load-bearing capacity, based on an applicable static calculation model.

Structural requirements

Kit requirements

- 1.8 – 1.9 m insertion depth of the K2 cap profile
- ≤ 1.75 kN now and ≤ 0.67 kN wind

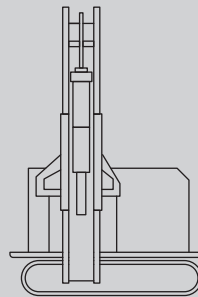
Additional tools



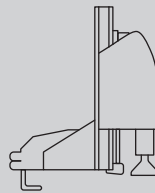
Gripple Collet Chuck 400 · 2004456



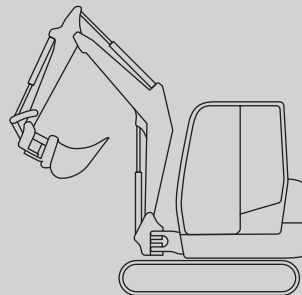
Equipment/machines for inserting the ramming foundations are available from a construction machinery rental facility. Alternatively, a garden and landscaping company can be commissioned.



Piling machine

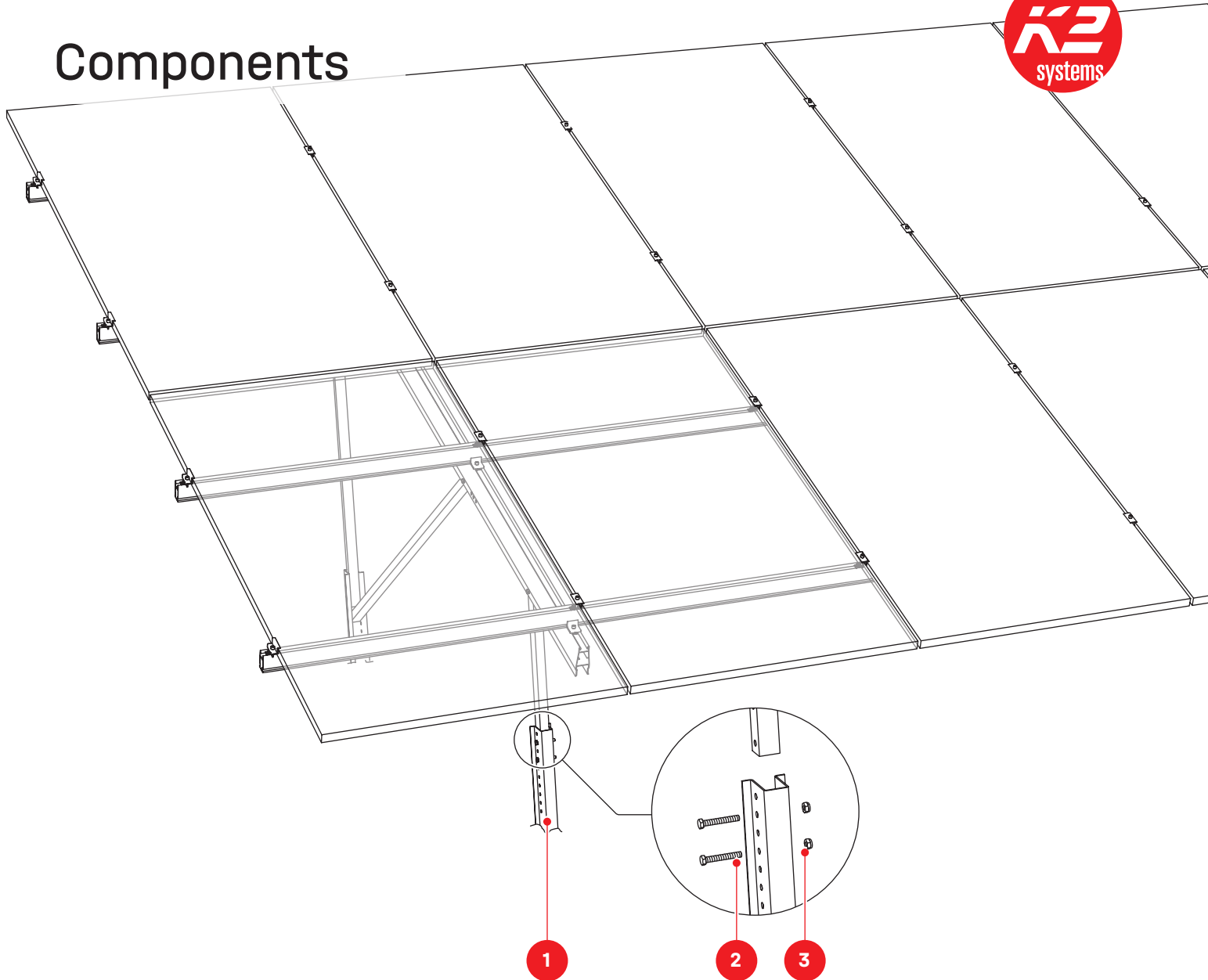


Pile driver for attaching to a mini excavator, etc.

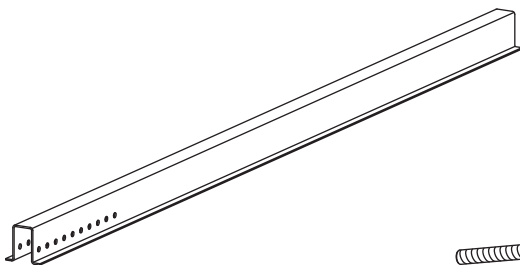


Excavator

Components



N-Rack Ground Kit Pile



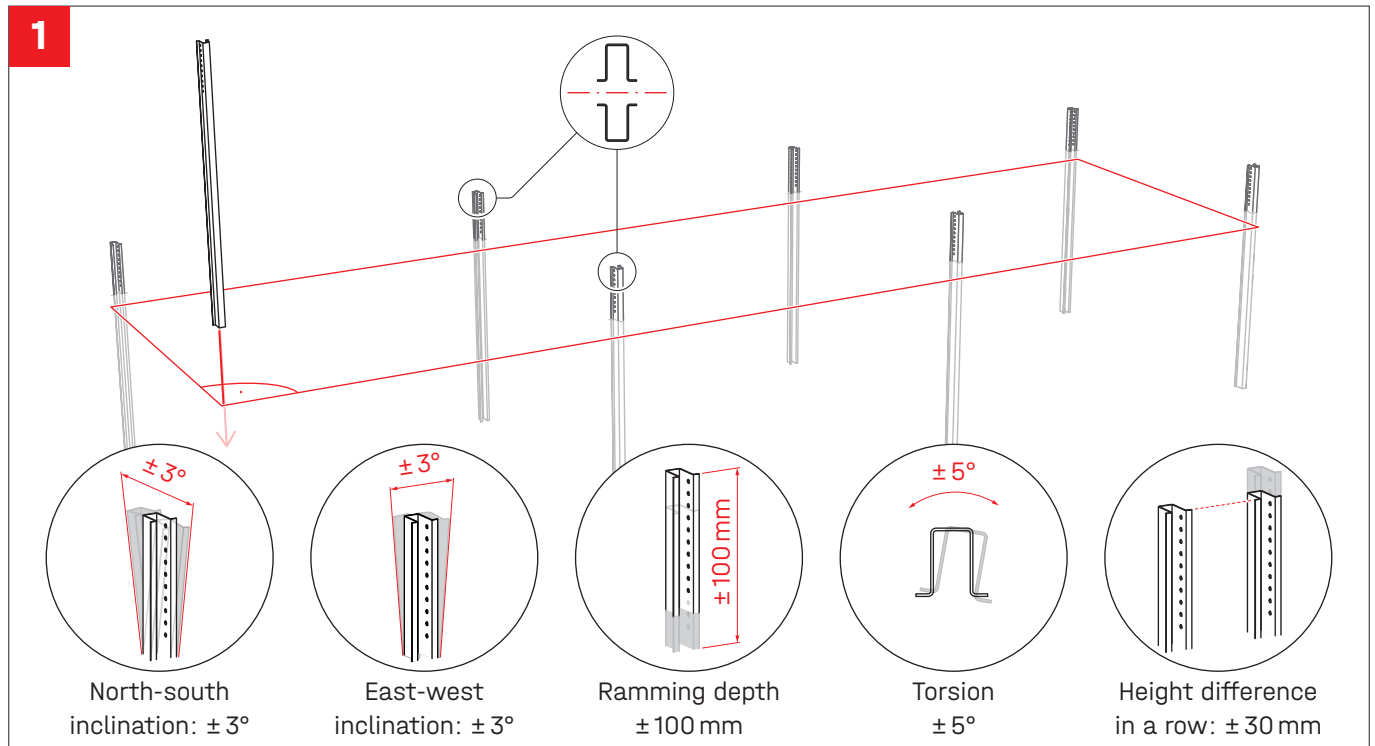
1 2005112
Cap Profile
N-Rack 2,3 m

2 2004408
Hexagon Head Screw
with Shank M10 x 70

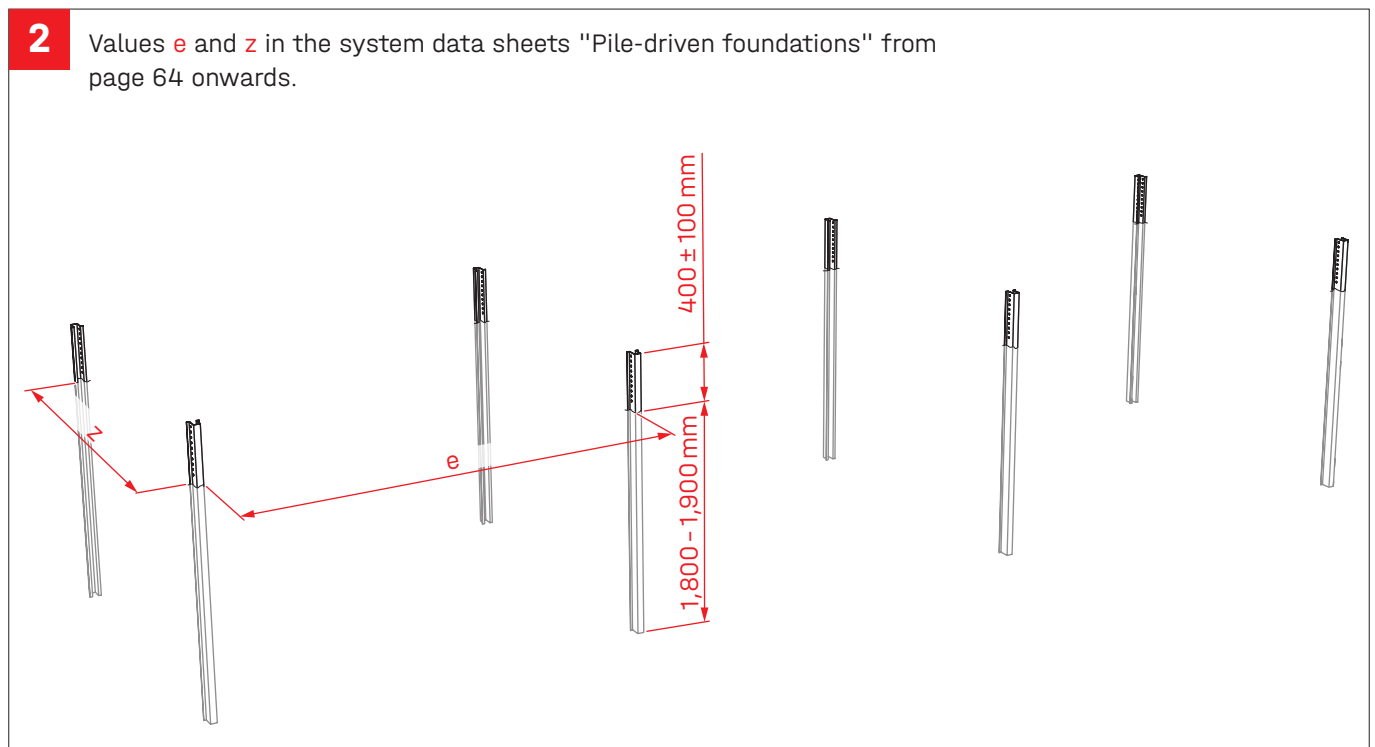
3 1002849
Hexagon Locking Nut
M10

Installation

Foundation work

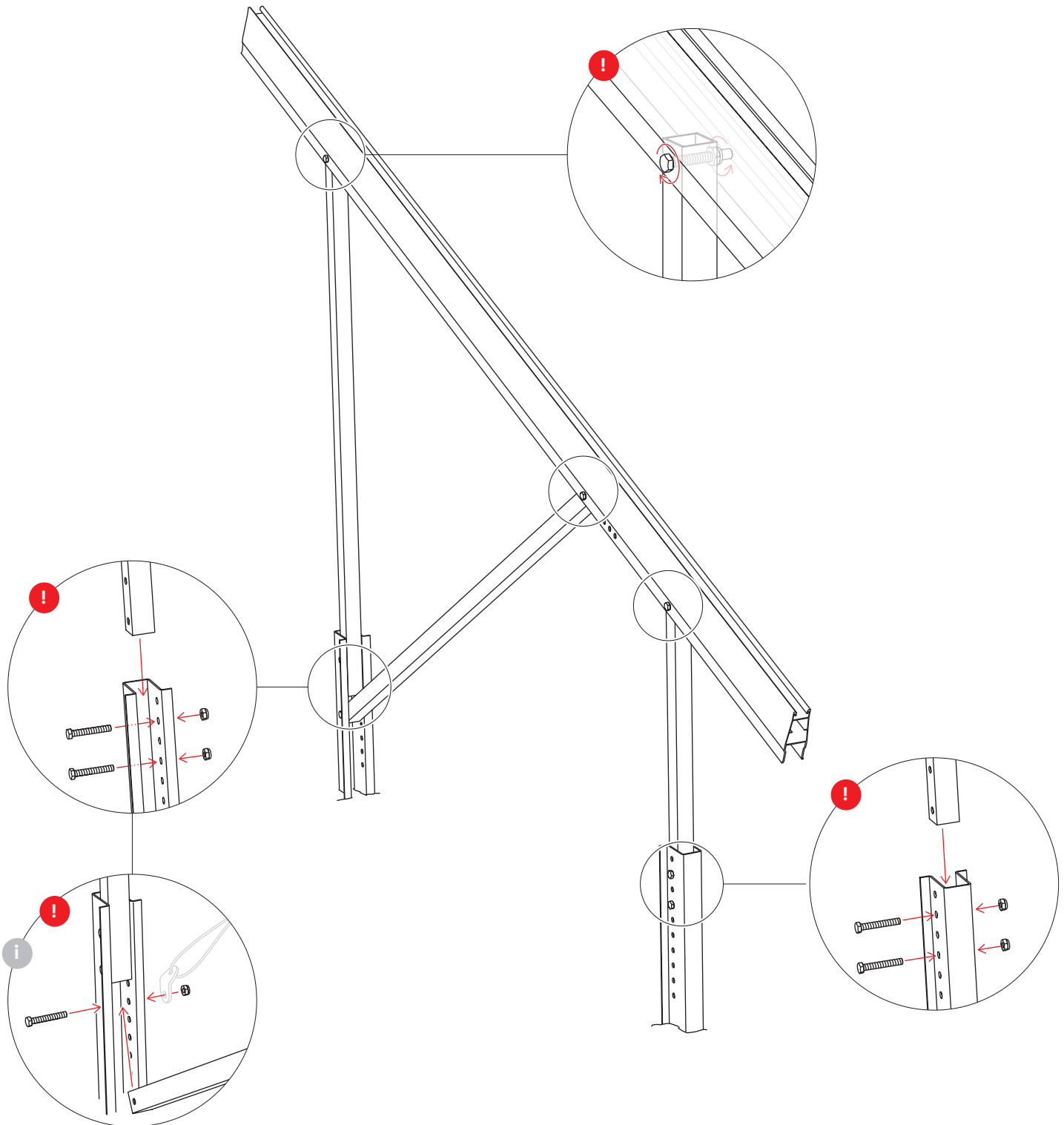


Spacing



Connecting supports

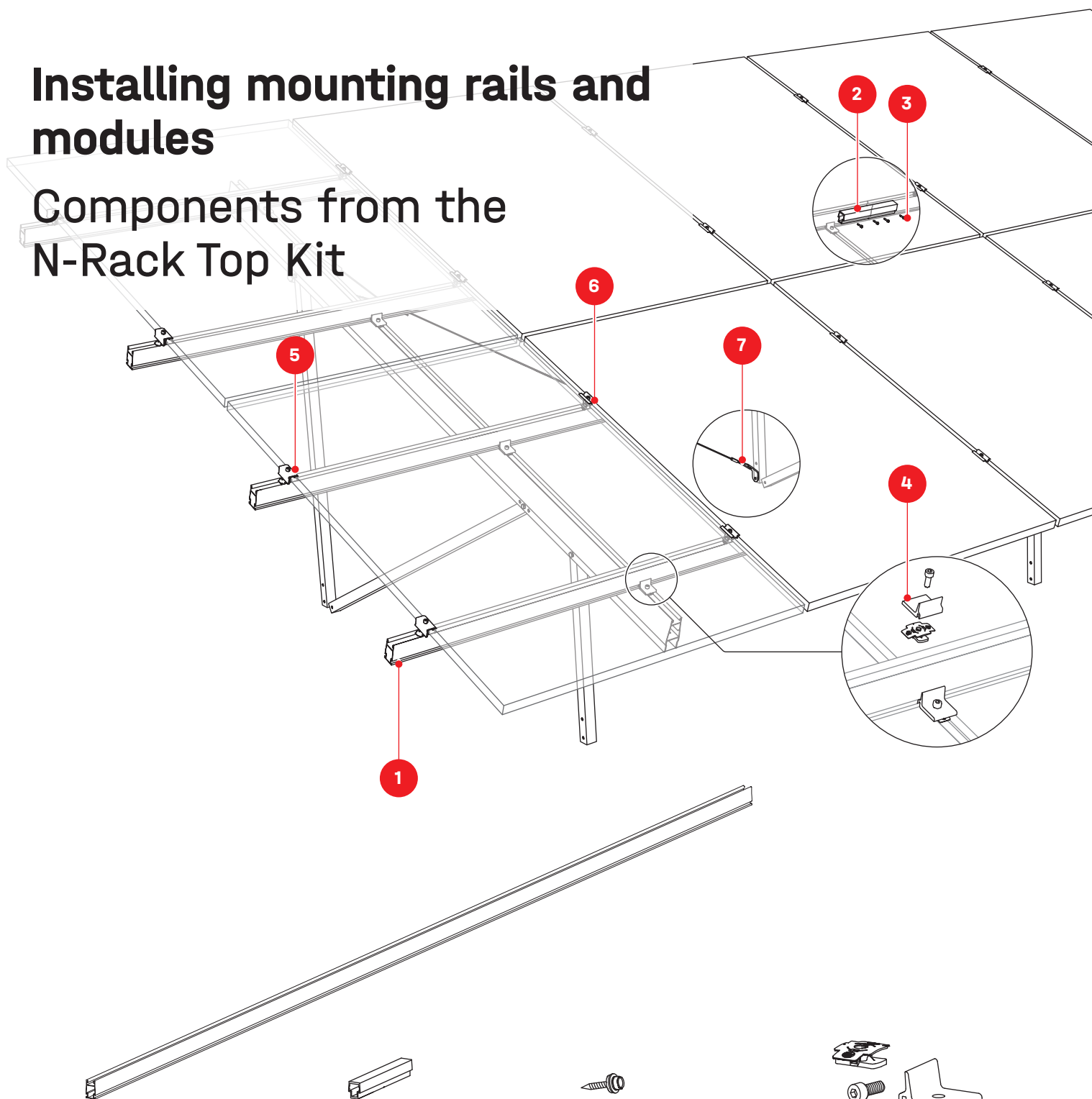
3  30 Nm



 Attaching the wind bracing: "Setting up wind bracing" on page 38.

Installing mounting rails and modules

Components from the N-Rack Top Kit



1 System-specific article number, see page 8
CrossRail 73

2 2004409
CrossRail 73 Connector

3 1001051
Drilling Screw 5.5 × 25

4 2003145
Climber 36/50 Set

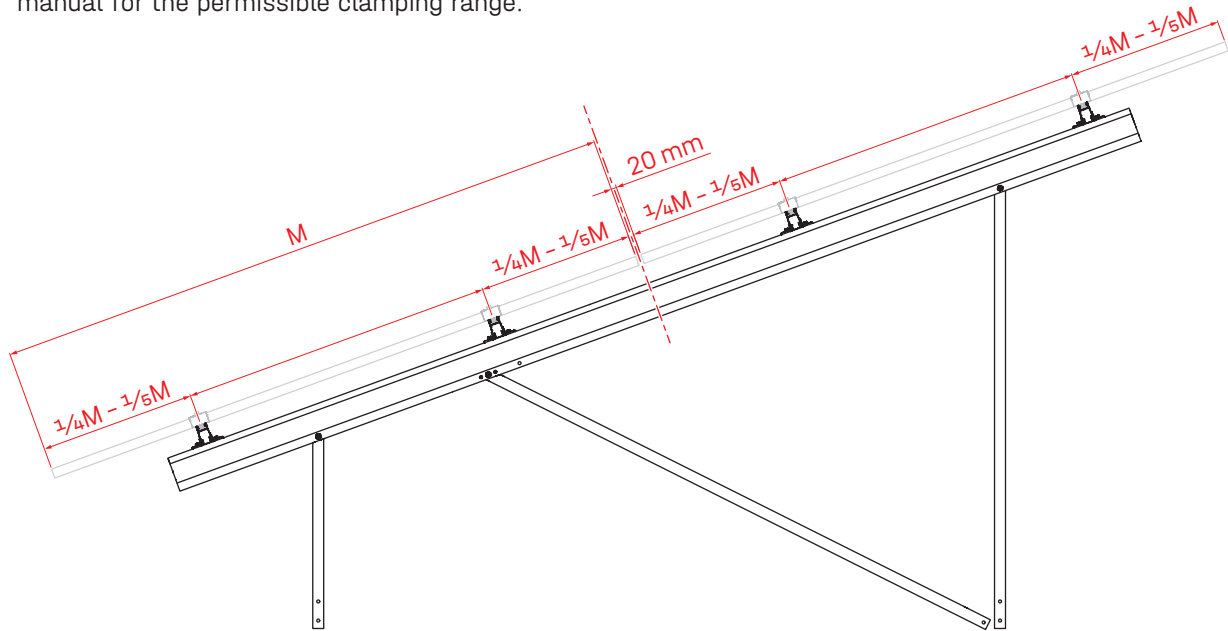
5 2004543
Module Clamp K2 Clamp EC 25 - 40

6 2004146
Middle Module Clamp K2 Clamp MC 25 - 40

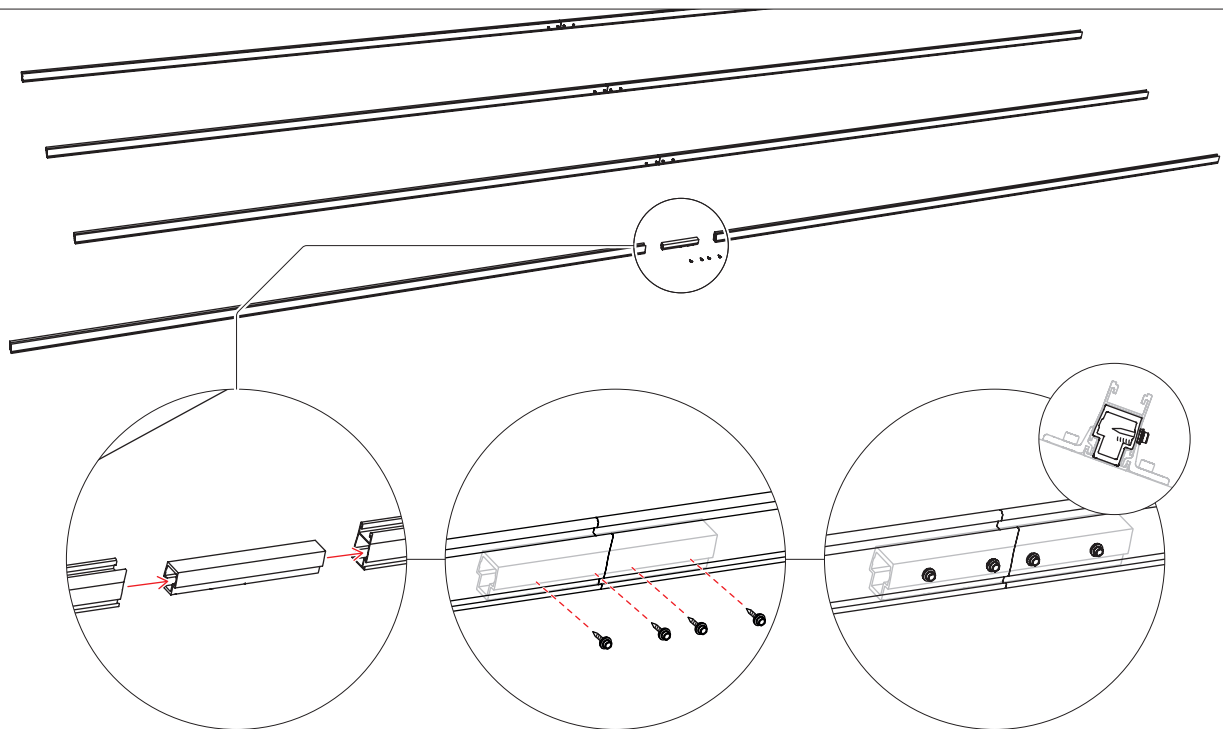
7 2004410
Wind Bracing Set

Installation

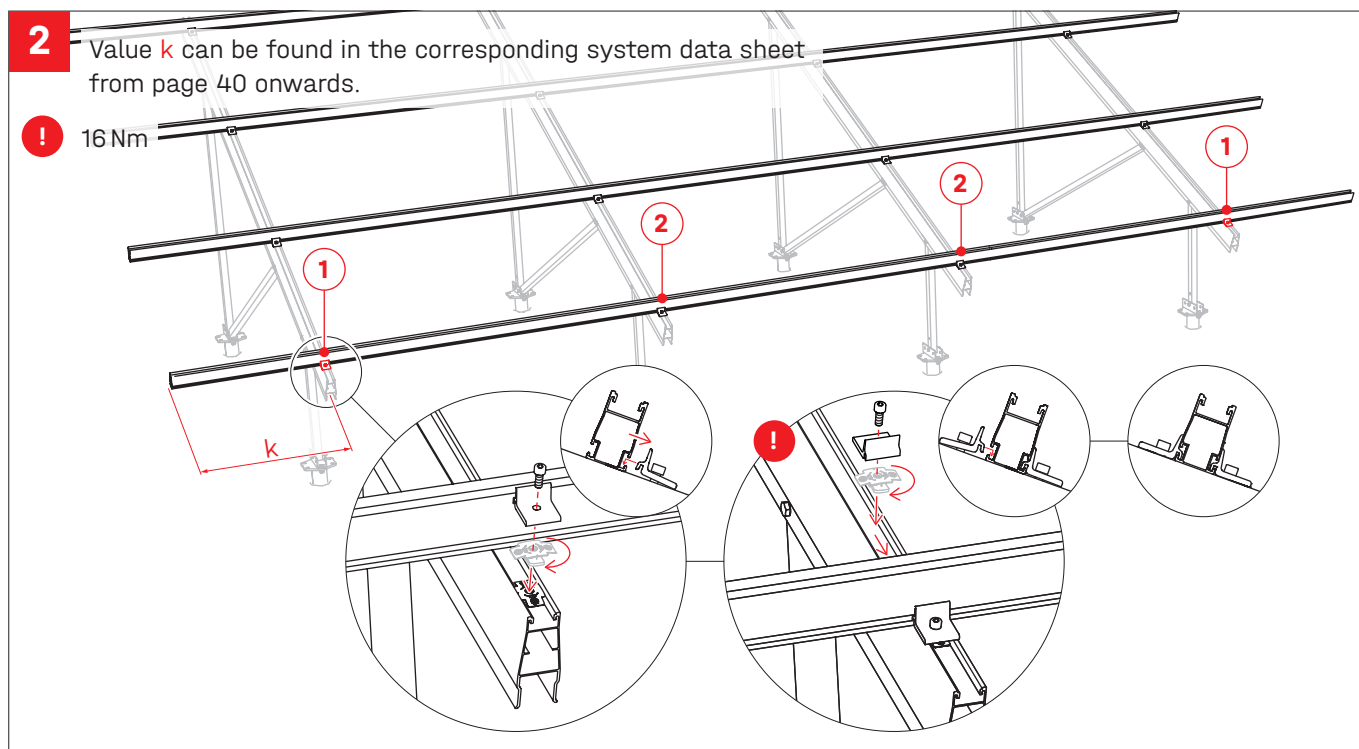
- 1a** M = Module length. The clamp position and the modules must be arranged symmetrically with the length of the upper flange. Observe the manufacturer's installation manual for the permissible clamping range.



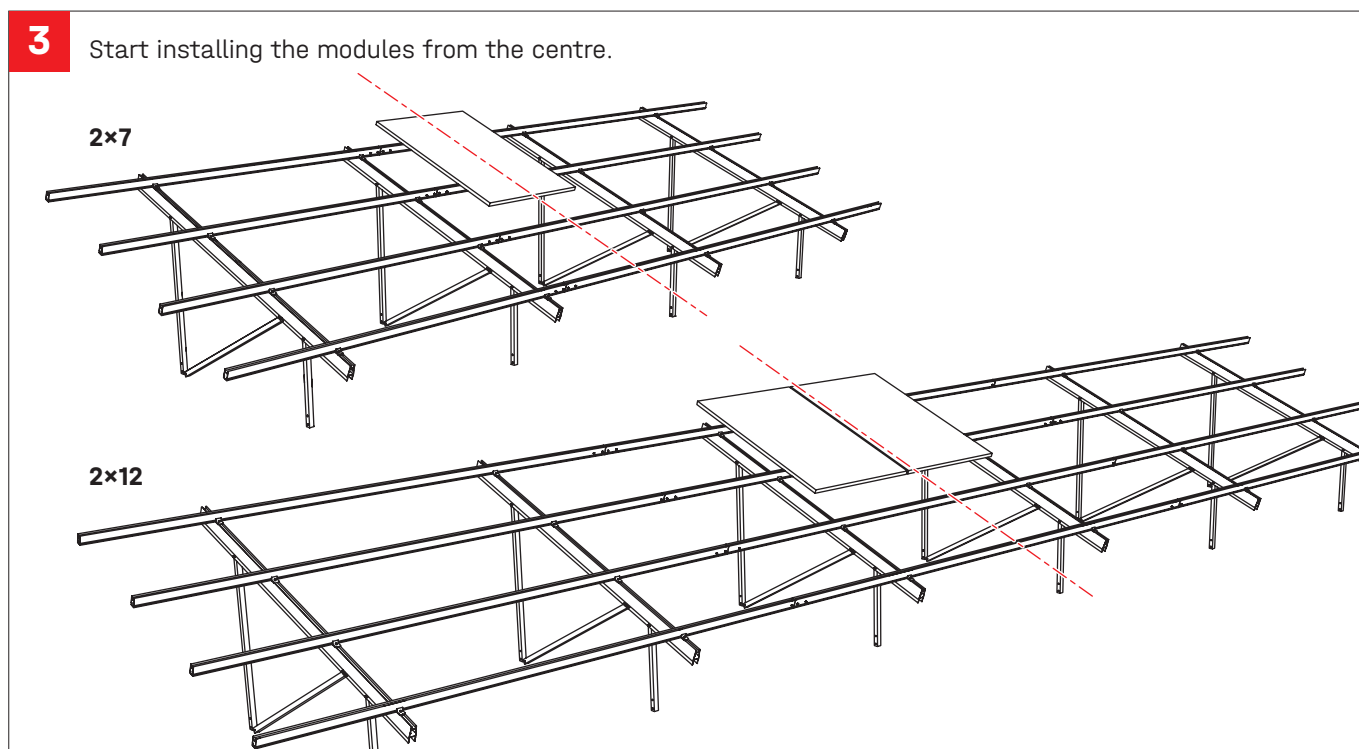
1b

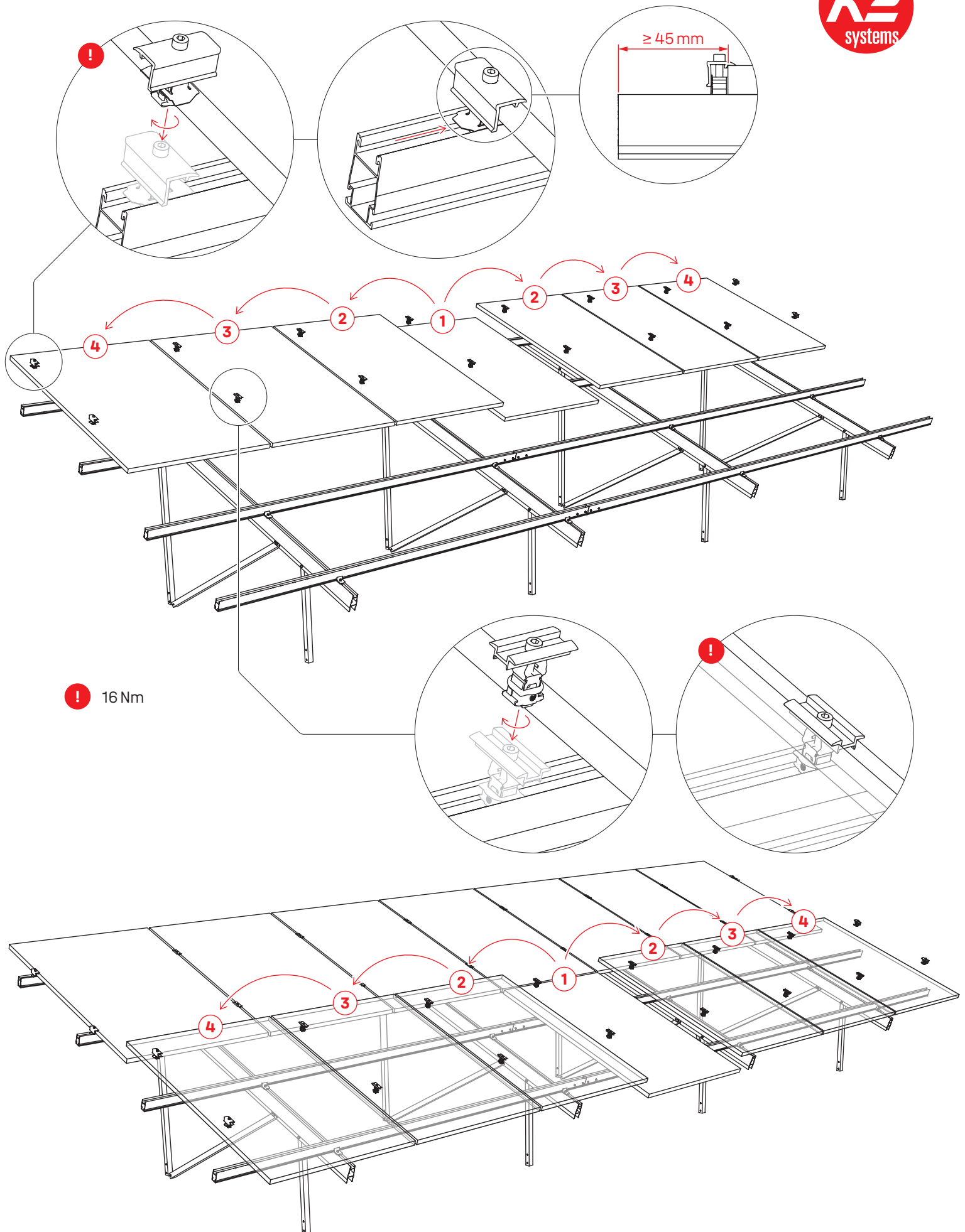


Connecting the CrossRail mounting rail

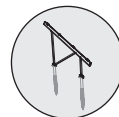
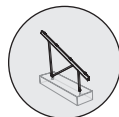


Module installation



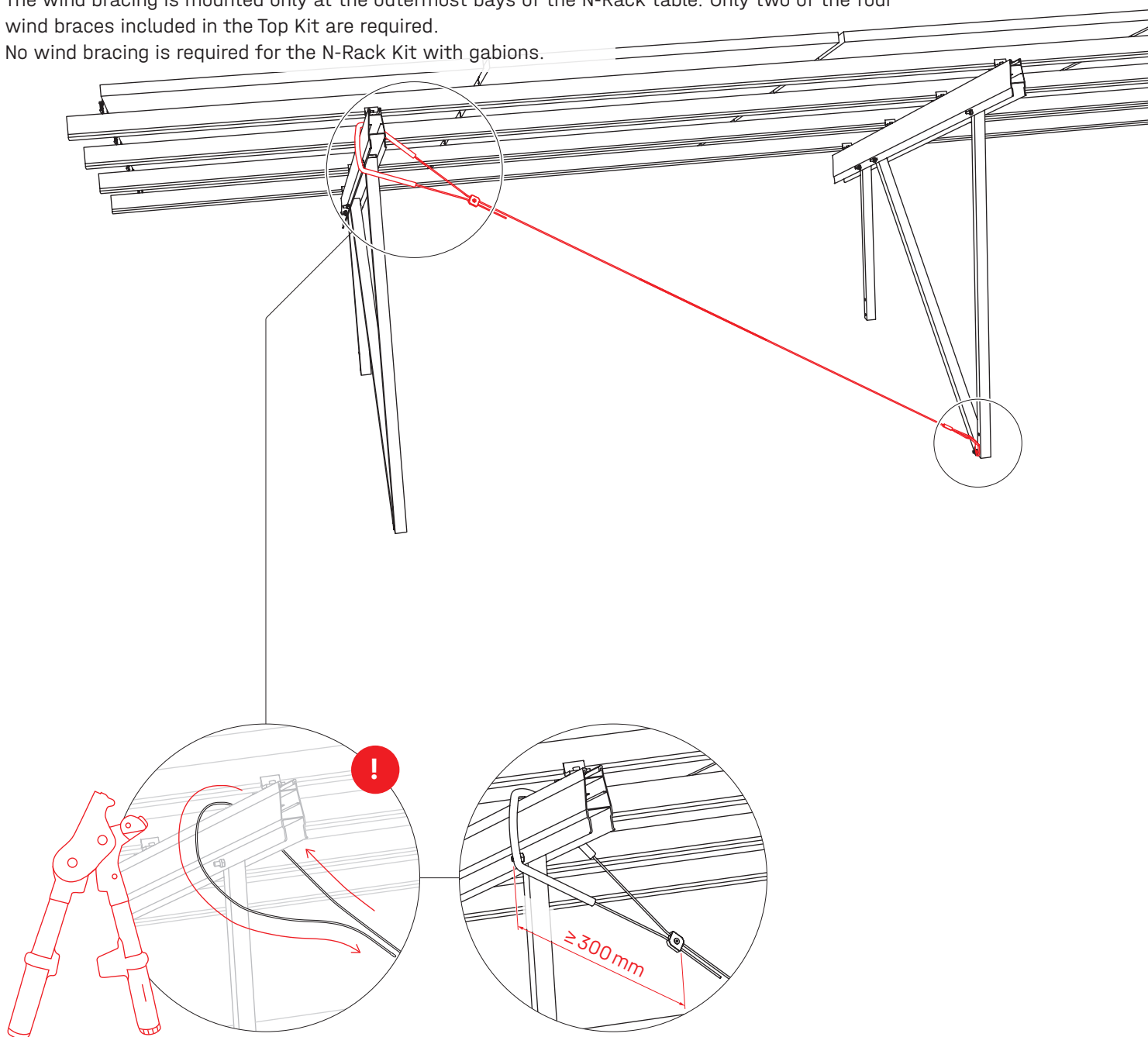


Setting up wind bracing

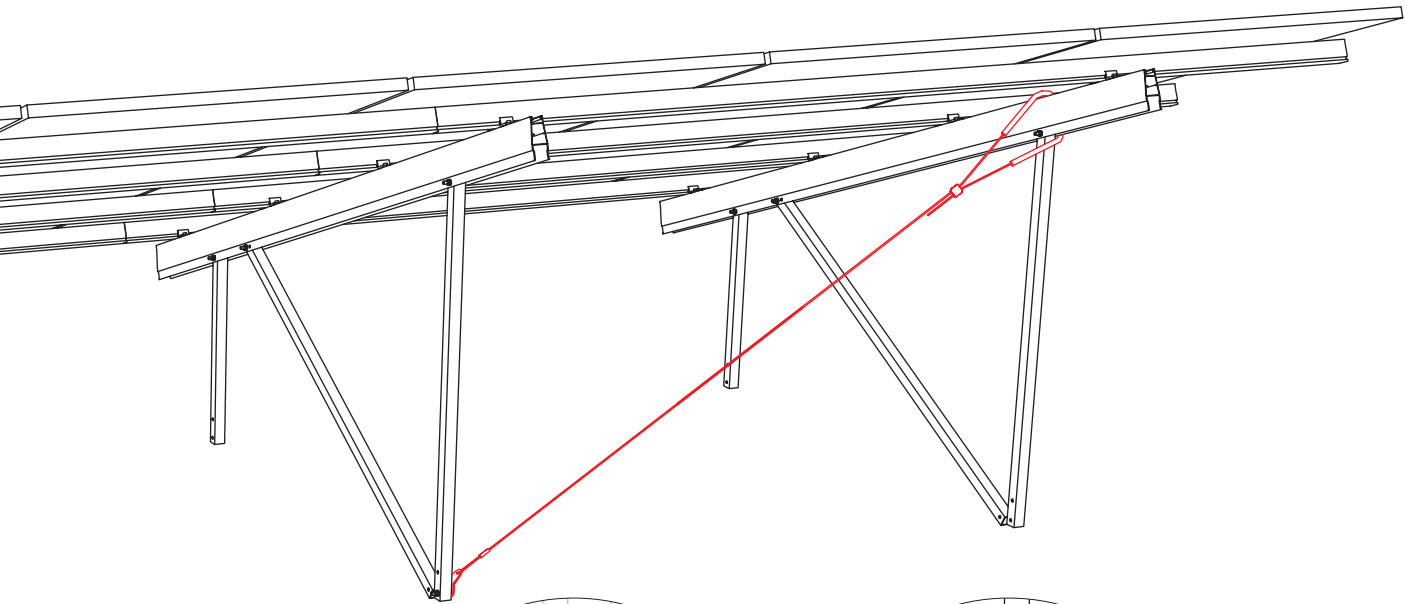


The wind bracing is mounted only at the outermost bays of the N-Rack table. Only two of the four wind braces included in the Top Kit are required.

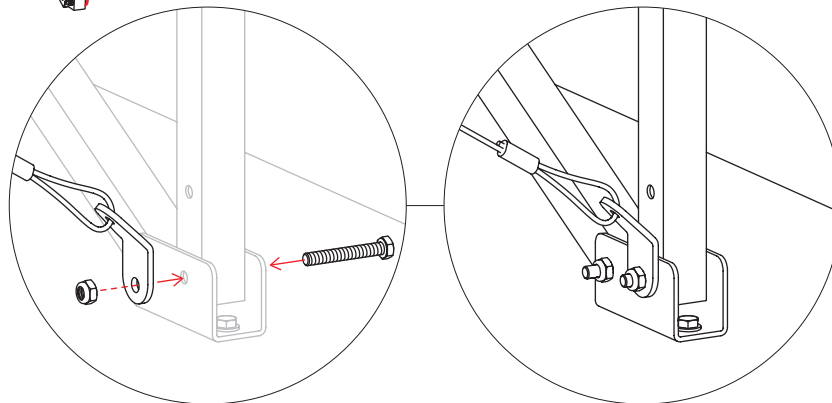
No wind bracing is required for the N-Rack Kit with gabions.



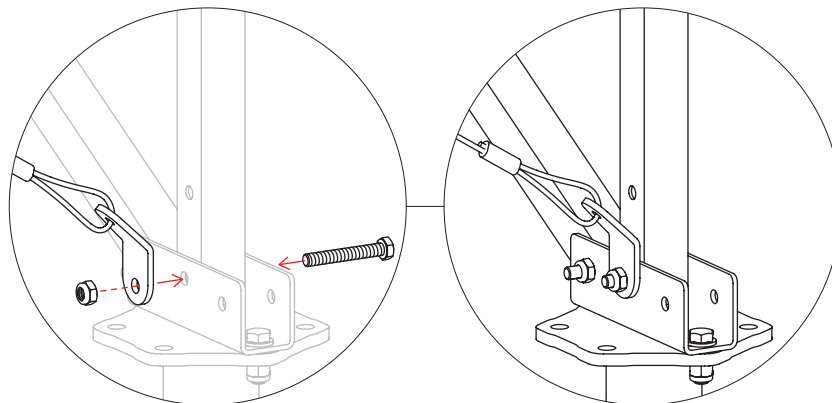
 Observe the tool manufacturer's application instructions



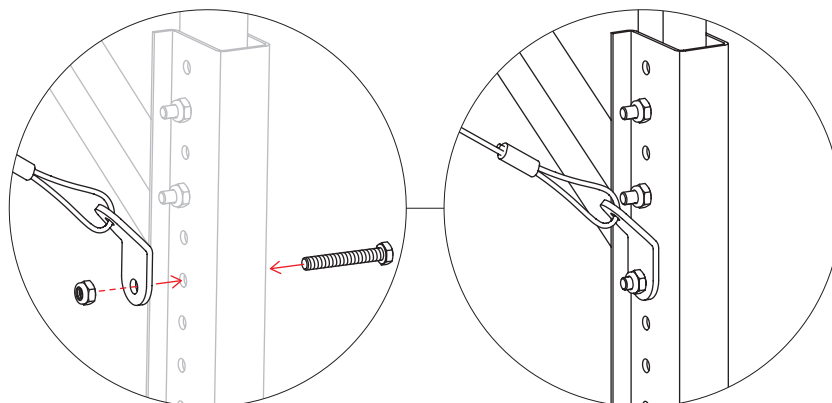
Concrete foundations



Ground screw foundations



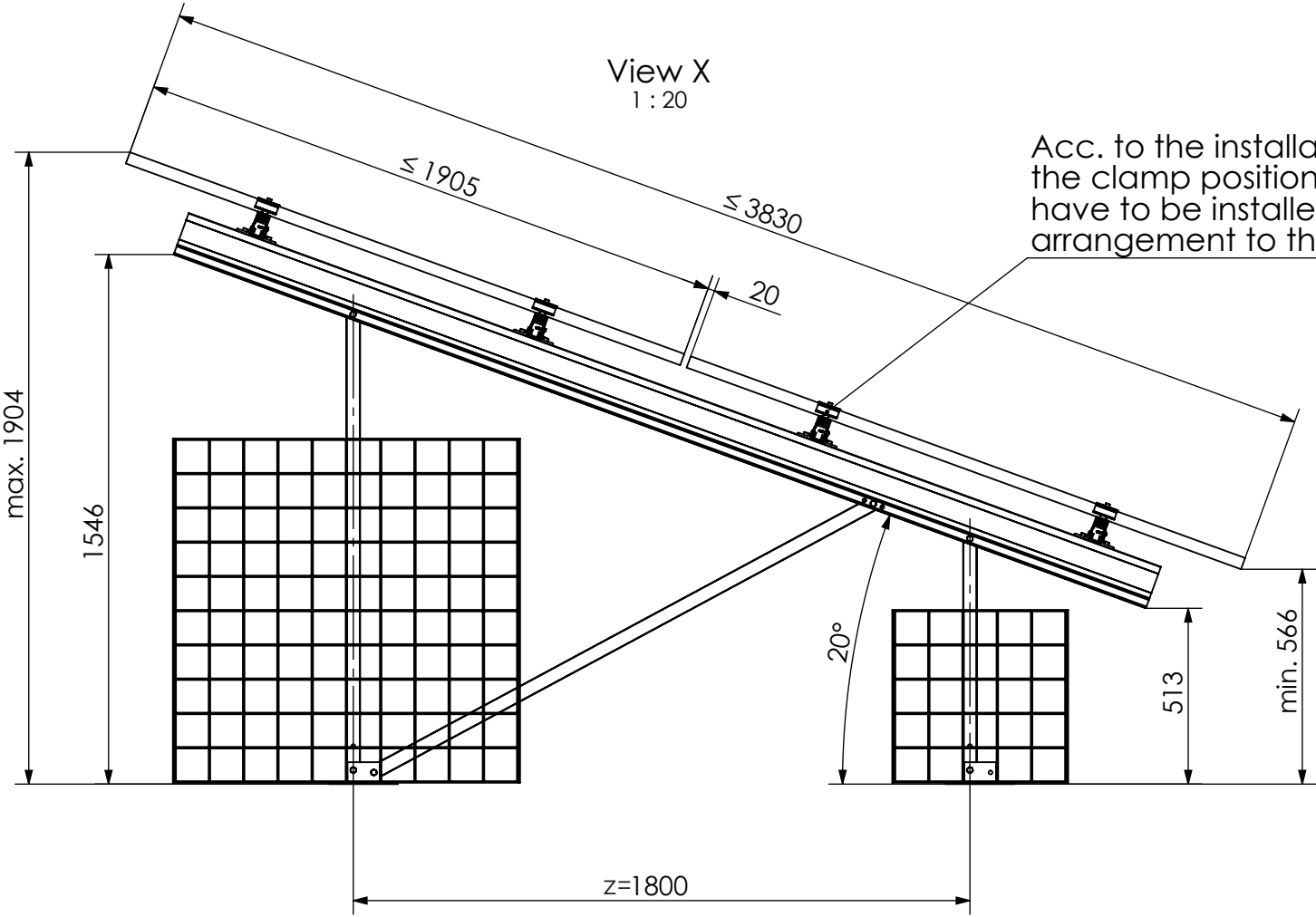
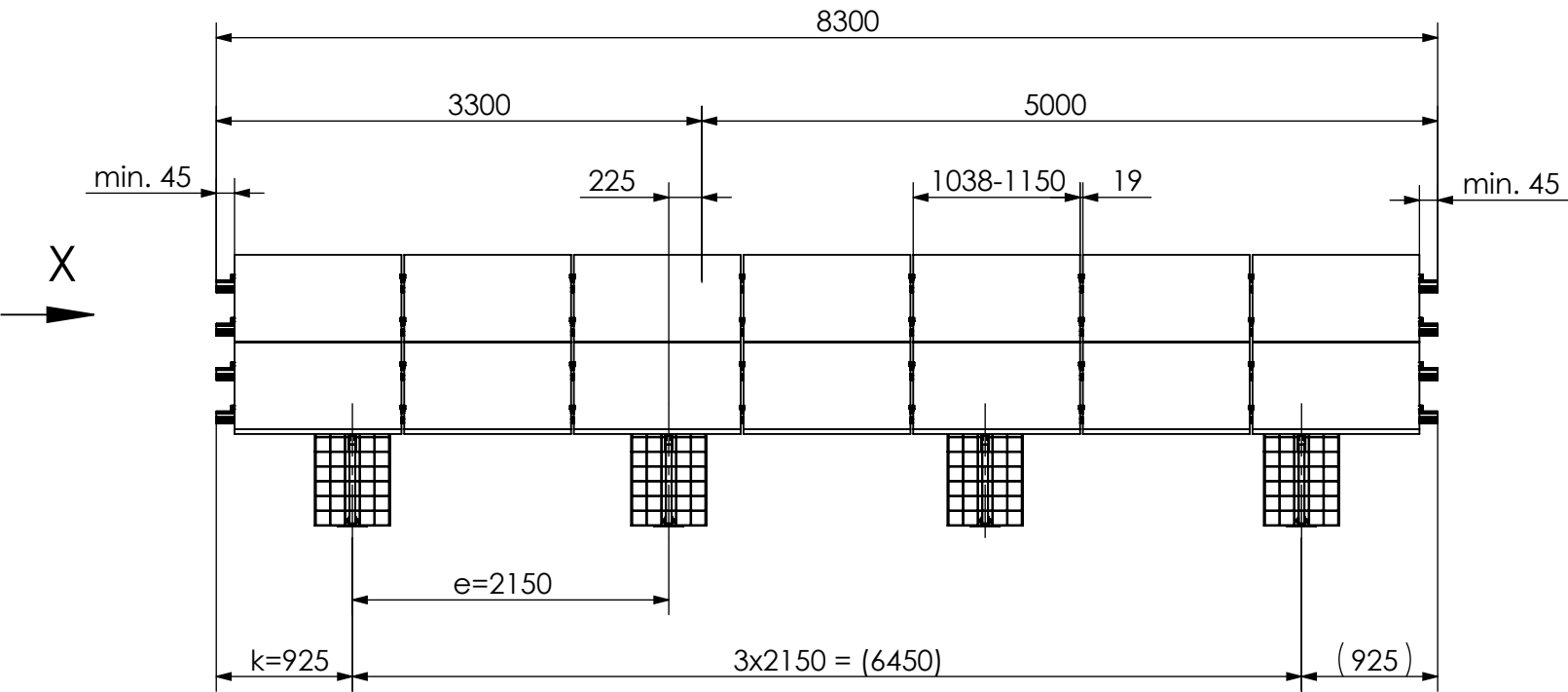
Pile-driven foundations



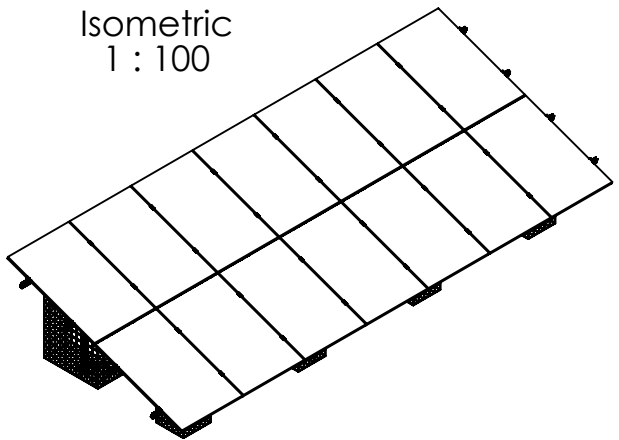
System data sheets

Gabions

Gabion Kit 2x7 S



Acc. to the installation manual,
the clamp position and the modules
have to be installed in a symmetrical
arrangement to the beam length.



14 modules (2x7 Portrait)
for module width ≤ 1150 mm

12 modules (2x6 Portrait)
for module width $>1150-1303$ mm

Peak velocity $q_p[z]$: 0.67 kN/m^2
Ground snow load S_k : 1.75 kN/m^2

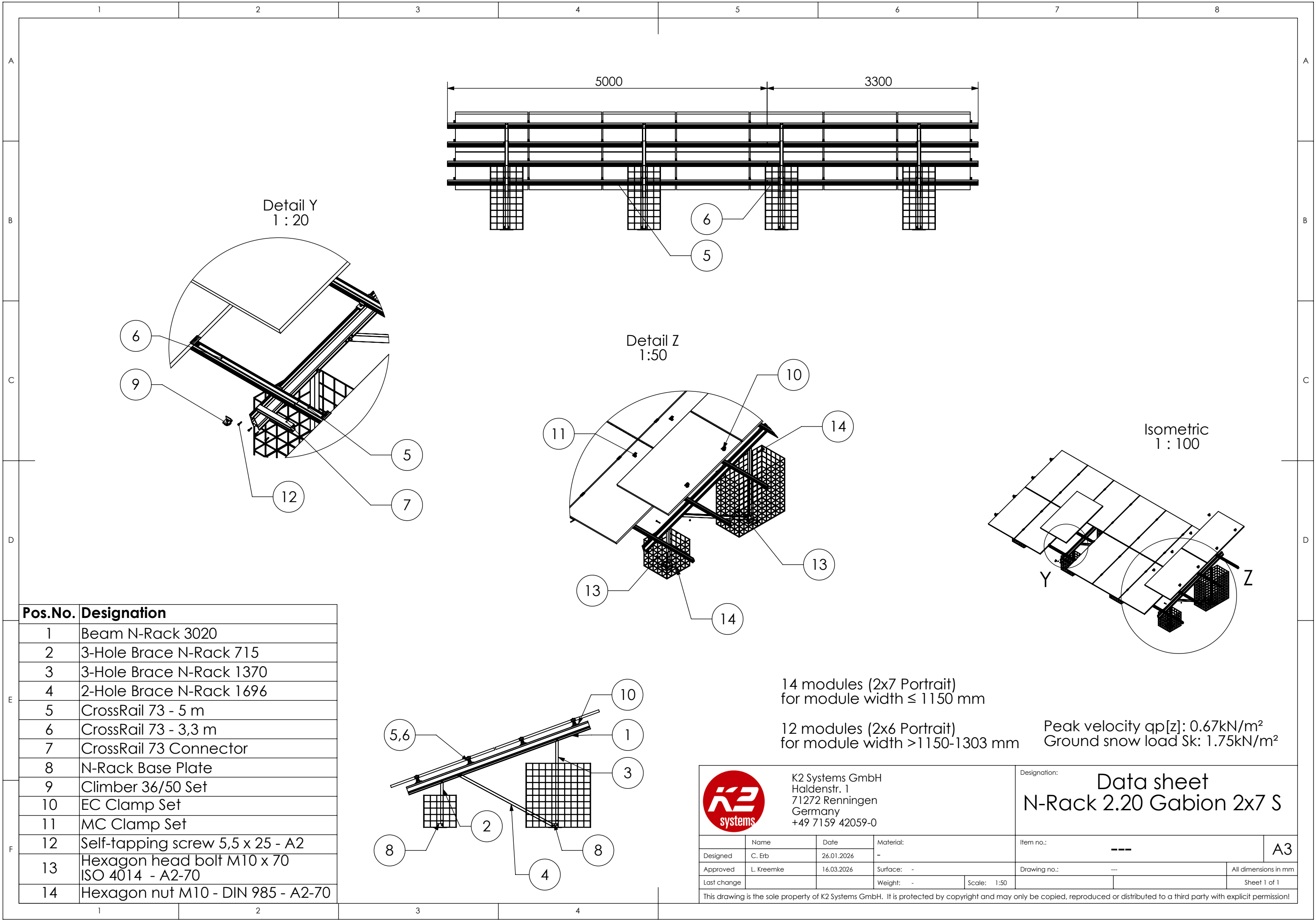


K2 Systems GmbH
Haldenstr. 1
71272 Renningen
Germany
+49 7159 42059-0

Designation: Data sheet
N-Rack 2.20 Gabion 2x7 S

	Name	Date	Material:	Item no.:	---	A3
Designed	C. Erb	26.01.2026	-			
Approved	L. Kreemke	16.03.2026	Surface: -	Drawing no.:	---	All dimensions in mm
Last change			Weight: -	Scale: 1:50		Sheet 1 of 1

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Detail Y
1 : 20

Detail Z
1 : 50

Isometric
1 : 100

Pos.No.	Designation
1	Beam N-Rack 3020
2	3-Hole Brace N-Rack 715
3	3-Hole Brace N-Rack 1370
4	2-Hole Brace N-Rack 1696
5	CrossRail 73 - 5 m
6	CrossRail 73 - 3,3 m
7	CrossRail 73 Connector
8	N-Rack Base Plate
9	Climber 36/50 Set
10	EC Clamp Set
11	MC Clamp Set
12	Self-tapping screw 5,5 x 25 - A2
13	Hexagon head bolt M10 x 70 ISO 4014 - A2-70
14	Hexagon nut M10 - DIN 985 - A2-70

14 modules (2x7 Portrait)
for module width ≤ 1150 mm

12 modules (2x6 Portrait)
for module width >1150-1303 mm

Peak velocity $q_p[z]$: 0.67kN/m²
Ground snow load S_k : 1.75kN/m²



K2 Systems GmbH

Haldenstr. 1

71272 Renningen

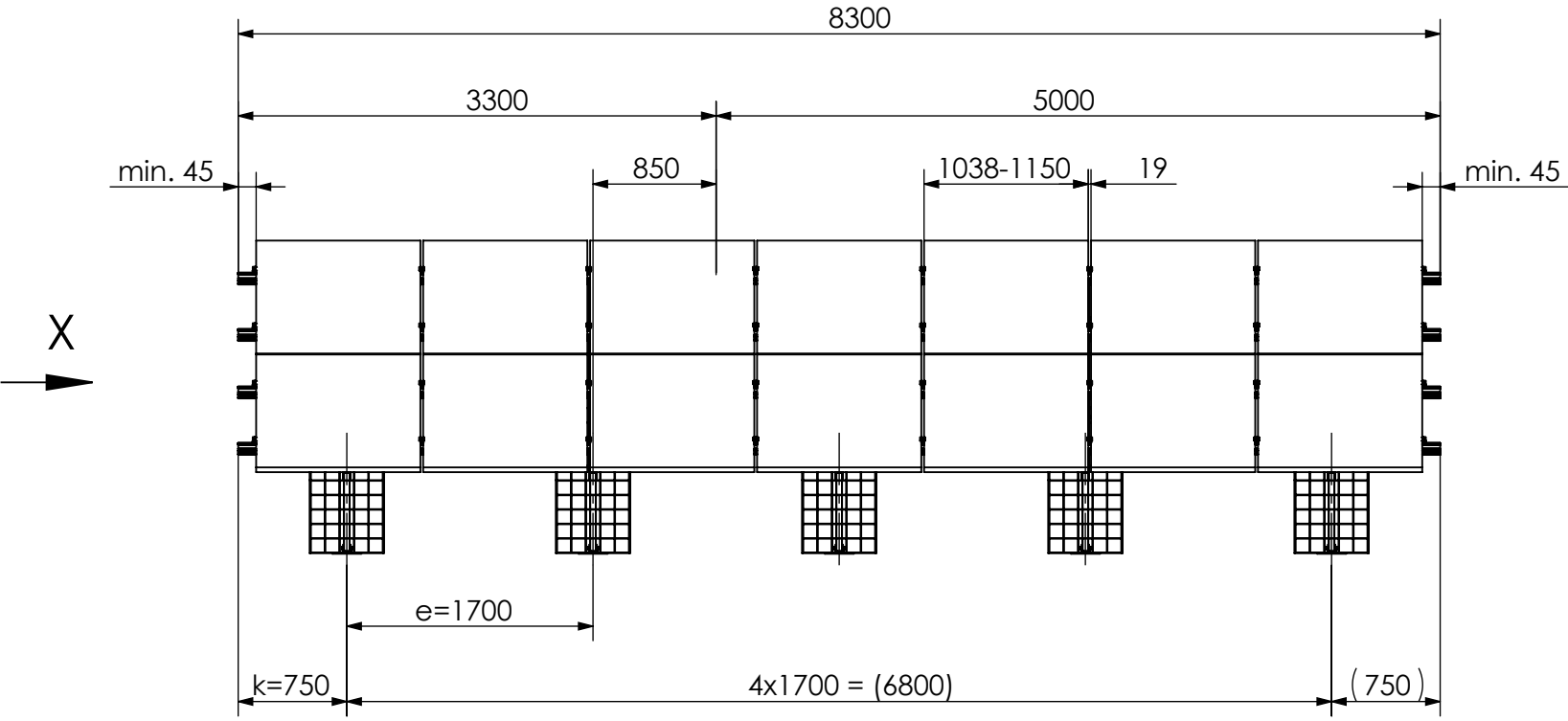
Germany

+49 7159 42059-0

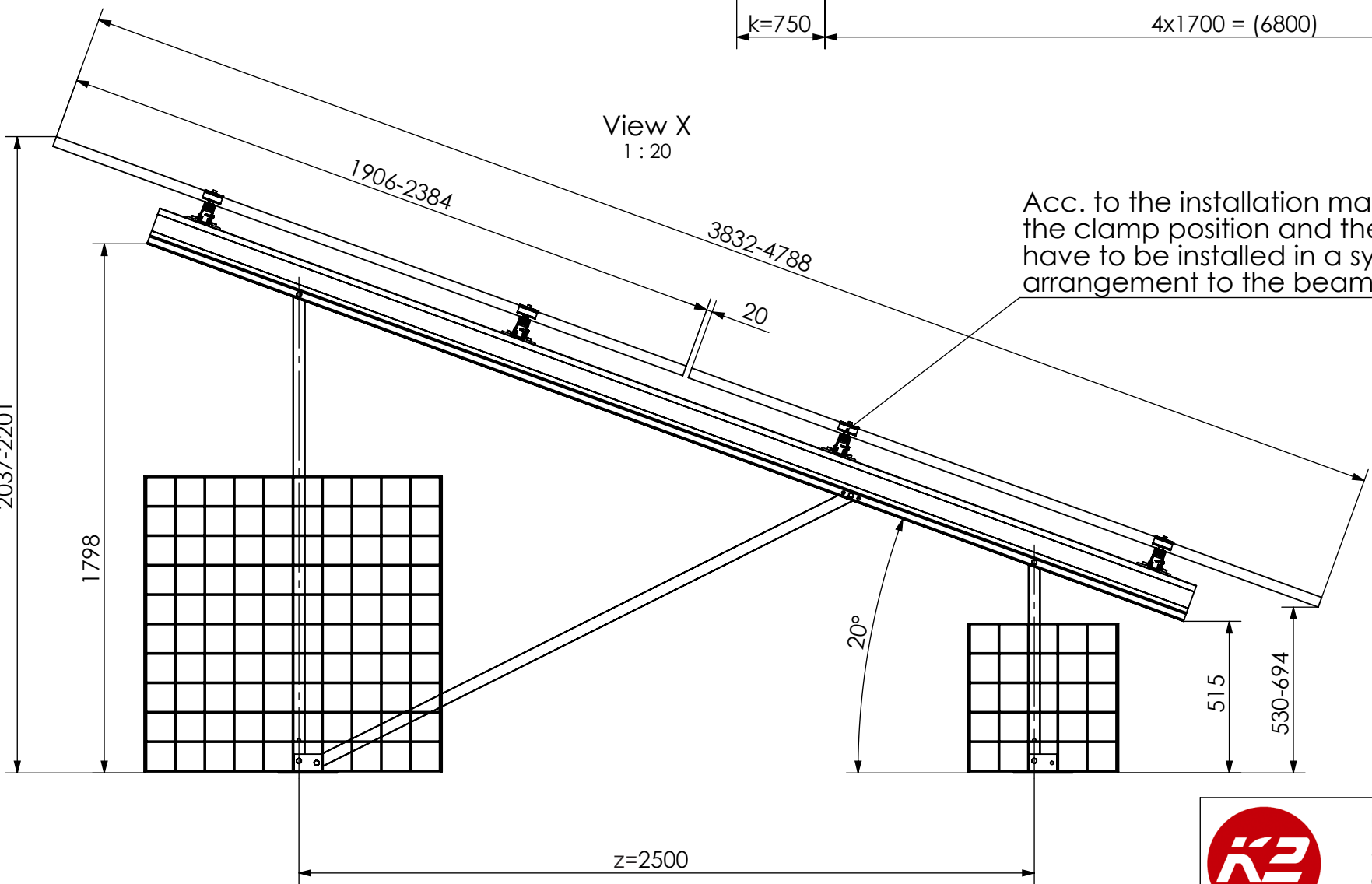
	Name	Date	Material:	Item no.:	A3
Designed	C. Erb	26.01.2026	-	Drawing no.: ---	
Approved	L. Kreemke	16.03.2026	Surface: -		
Last change			Weight: -		
			Scale: 1:50		All dimensions in mm
Sheet 1 of 1					

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Gabion Kit 2x7 L

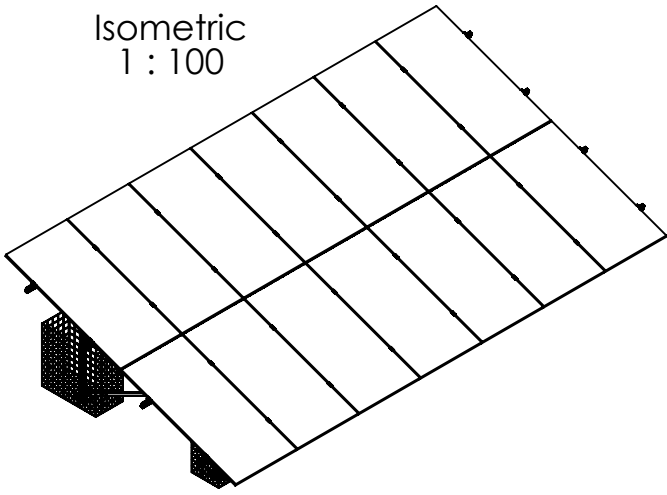


View X
1 : 20



Acc. to the installation manual,
the clamp position and the modules
have to be installed in a symmetrical
arrangement to the beam length.

Isometric
1 : 100



14 modules (2x7 Portrait)
for module width ≤ 1150 mm

12 modules (2x6 Portrait)
for module width >1150-1303 mm

Peak velocity $q_p[z]$: 0.67kN/m²
Ground snow load S_k : 1.75kN/m²

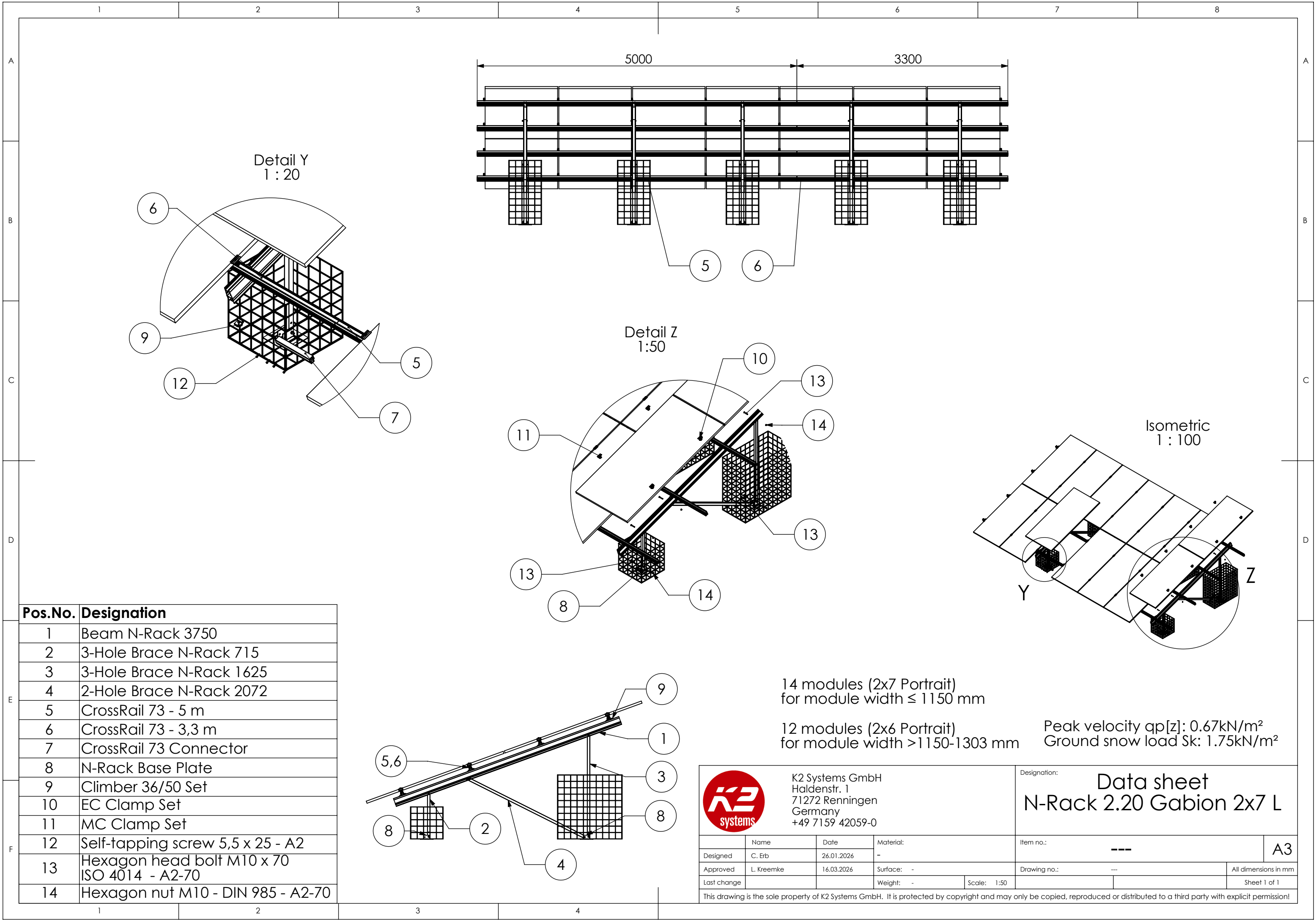


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Haldenstr. 1
71272 Renningen
Germany
+49 7159 42059-0

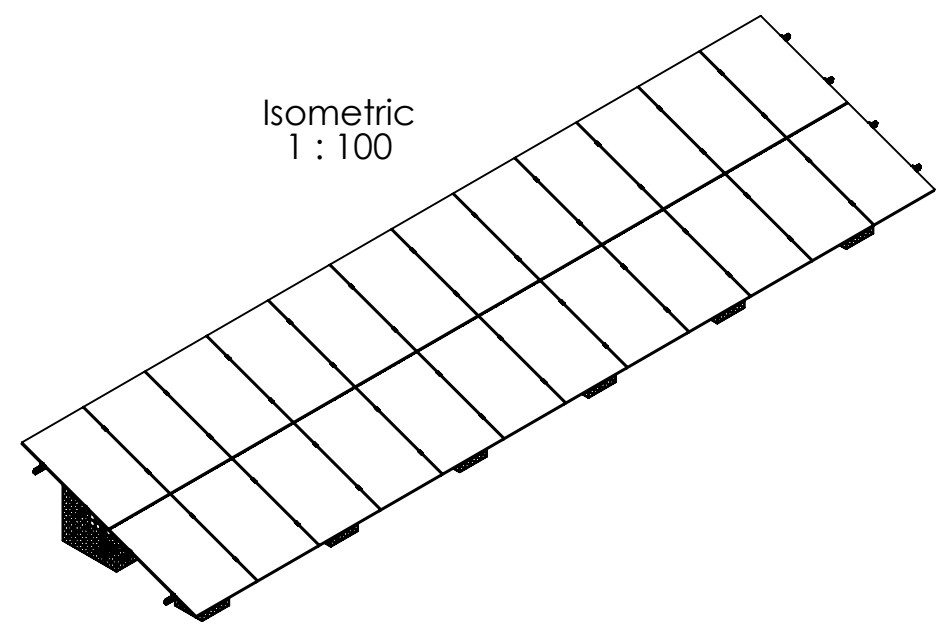
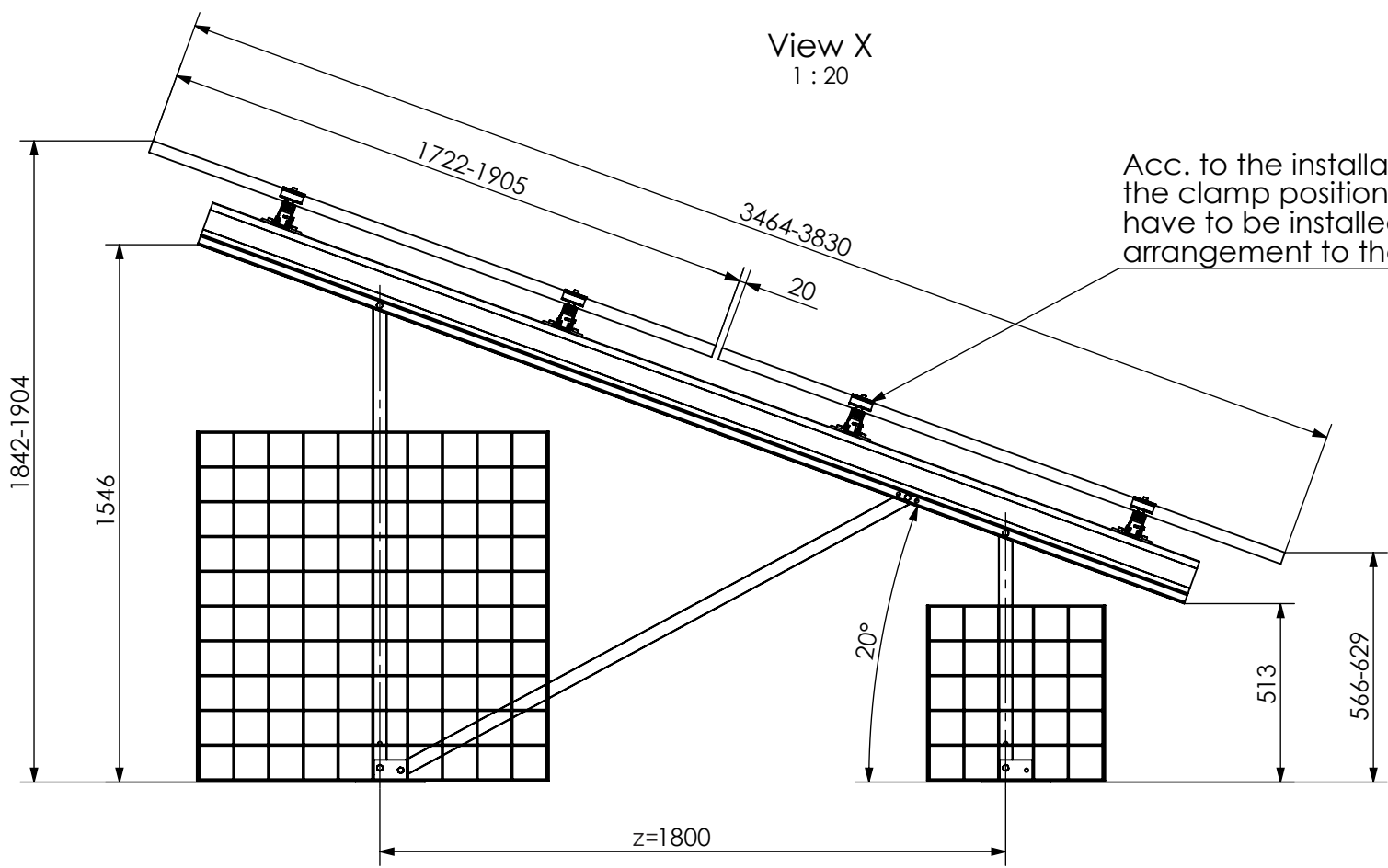
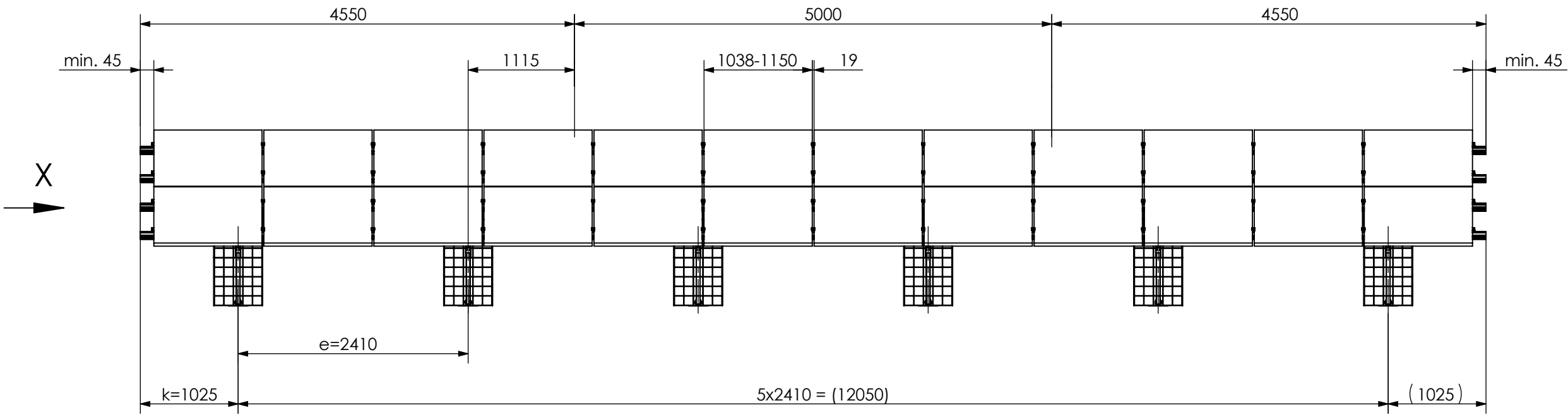
Designation: Data sheet
N-Rack 2.20 Gabion 2x7 L

	Name	Date	Material:	Item no.:	A3
Designed	C. Erb	26.01.2026	-	---	
Approved	L. Kreemke	16.03.2026	Surface: -	Drawing no.: ---	All dimensions in mm
Last change			Weight: -	Scale: 1:50	Sheet 1 of 1

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Gabion Kit 2x12 S



Acc. to the installation manual, the clamp position and the modules have to be installed in a symmetrical arrangement to the beam length.

24 modules (2x12 Portrait)
for module width ≤ 1150mm

20 modules (2x10 Portrait)
for module width >1150-1303mm

Peak velocity qp[z]: 0.67kN/m²
Ground snow load Sk: 1.75kN/m²



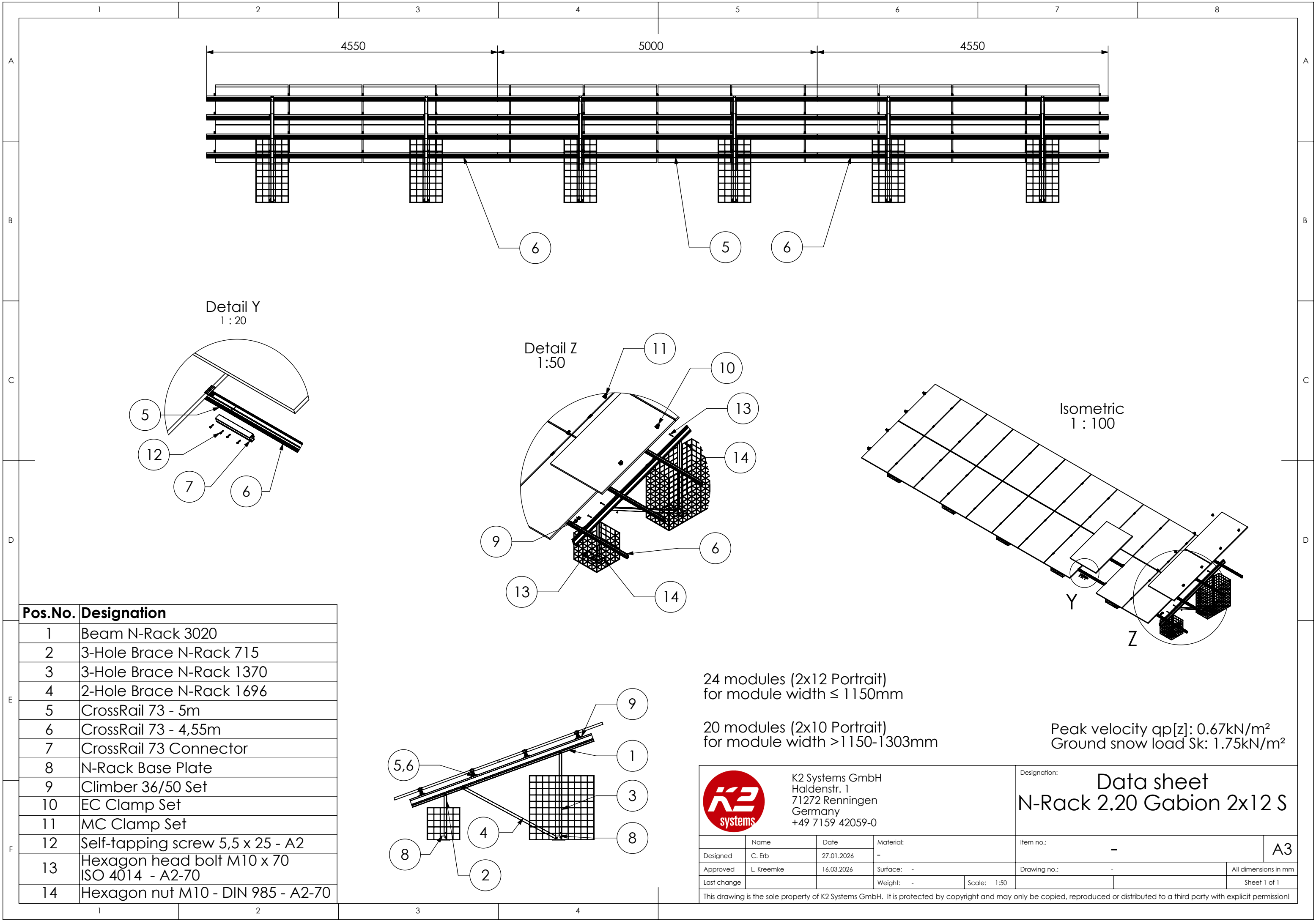
K2 Systems GmbH
Haldenstr. 1
71272 Renningen
Germany
+49 7159 42059-0

Designation:

Data sheet
N-Rack 2.20 Gabion 2x12 S

Name	Date	Material:	Item no.:	A3
Designed	C. Erb	27.01.2026	-	
Approved	L. Kreemke	16.03.2026	Surface: -	
Last change		Weight: -	Scale: 1:50	

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24 modules (2x12 Portrait)
for module width ≤ 1150mm

20 modules (2x10 Portrait)
for module width >1150-1303mm

Peak velocity qp[z]: 0.67kN/m²
Ground snow load Sk: 1.75kN/m²



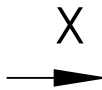
K2 Systems GmbH
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71272 Renningen
Germany
+49 7159 42059-0

Designation: **Data sheet
N-Rack 2.20 Gabion 2x12 S**

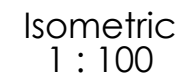
Item no.:	-	A3
Drawing no.:	-	
All dimensions in mm		Sheet 1 of 1

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min. 45



Acc. to the installation manual,
the clamp position and the modules
have to be installed in a symmetrical
arrangement to the beam length.



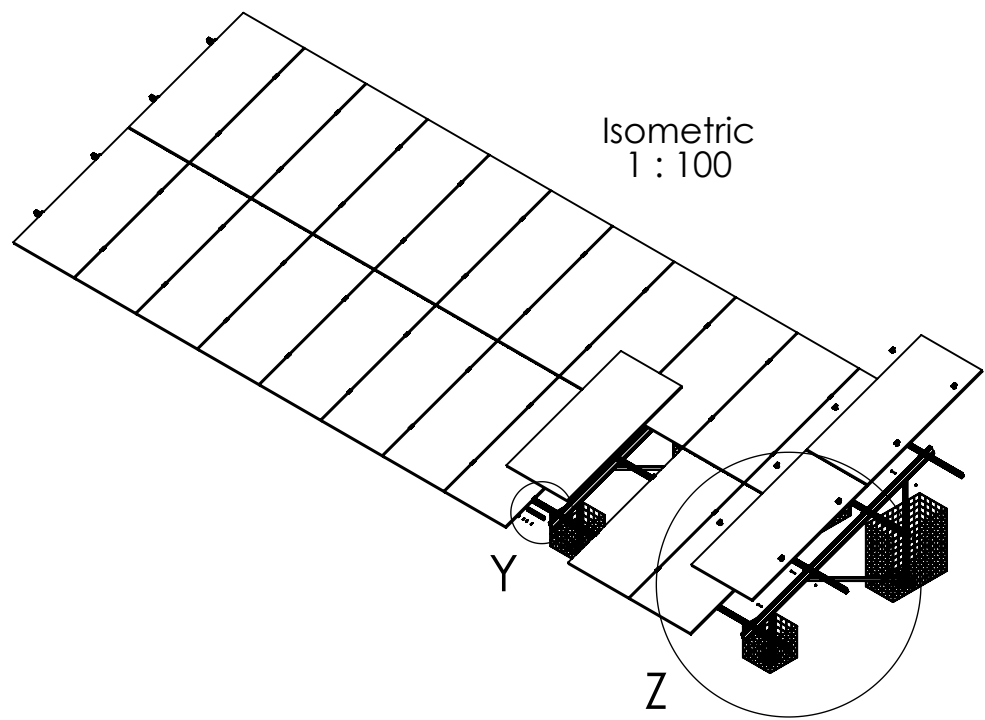
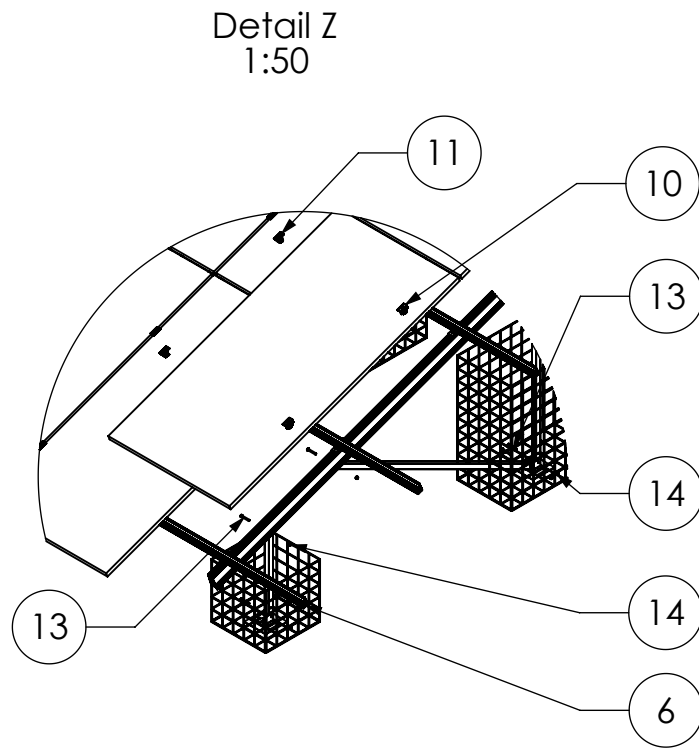
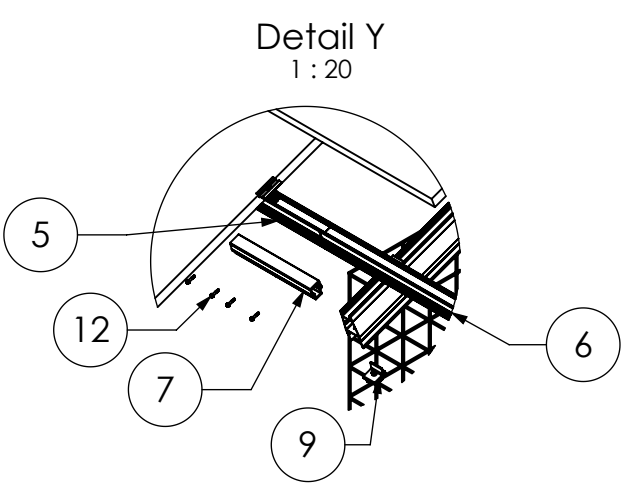
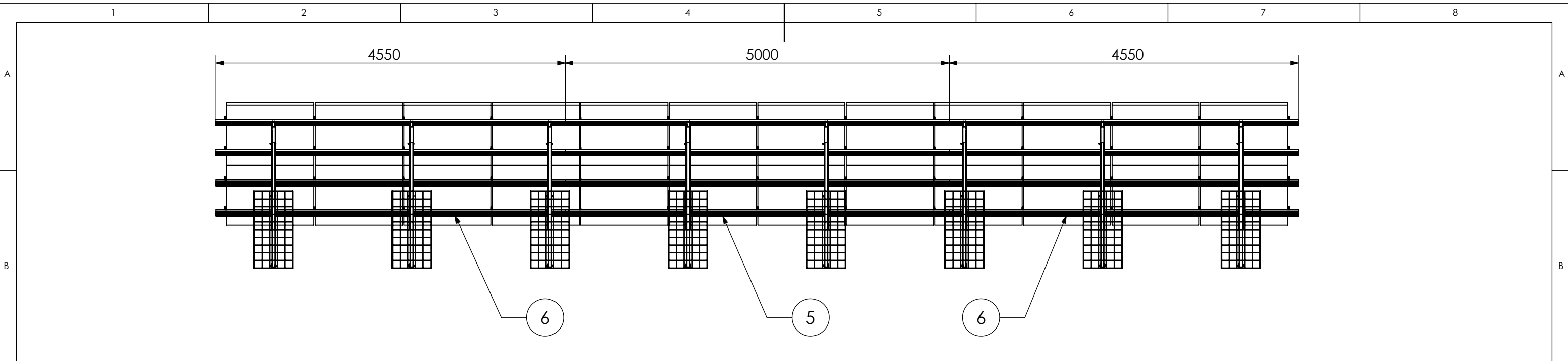
20 modules (2x10 Portrait)
for module width >1150-1303mm

Peak velocity qp[z]: 0.67kN/m²
Ground snow load Sk: 1.75kN/m²

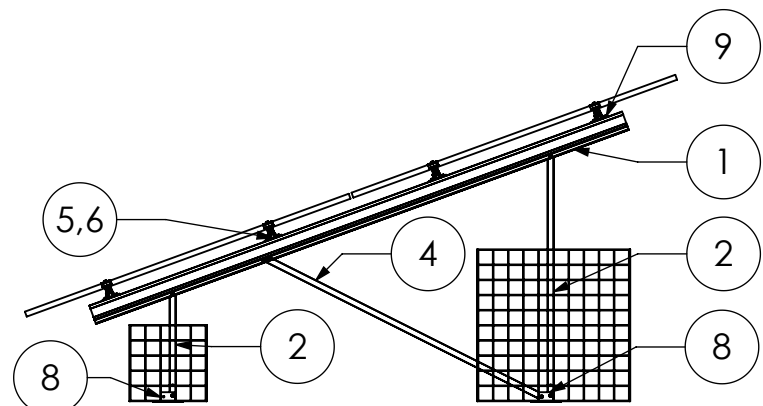


Designation:	Data sheet N-Rack 2.20 Gabion 2x12 L
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46



Pos.No.	Designation
1	Beam N-Rack 3750
2	3-Hole Brace N-Rack 715
3	3-Hole Brace N-Rack 1625
4	2-Hole Brace N-Rack 2072
5	CrossRail 73 - 5 m
6	CrossRail 73 - 4,55 m
7	CrossRail 73 Connector
8	N-Rack Base Plate
9	Climber 36/50 Set
10	EC Clamp Set
11	MC Clamp Set
12	Self-tapping screw 5,5 x 25 - A2
13	Hexagon head bolt M10 x 70 ISO 4014 - A2-70
14	Hexagon nut M10 - DIN 985 - A2-70



24 modules (2x12 Portrait)
for module width ≤ 1150mm

20 modules (2x10 Portrait)
for module width > 1150-1303mm

Peak velocity $q_p[z]$: 0.67kN/m²
Ground snow load S_k : 1.75kN/m²



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Name		Date	Material:	Designation:	
Designed		C. Erb	27.01.2026	-	
Approved		L. Kreemke	16.03.2026	Surface: -	
Last change			Weight: -	Scale: 1:50	
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				Drawing no.: -	
				All dimensions in mm	
				Sheet 1 of 1	

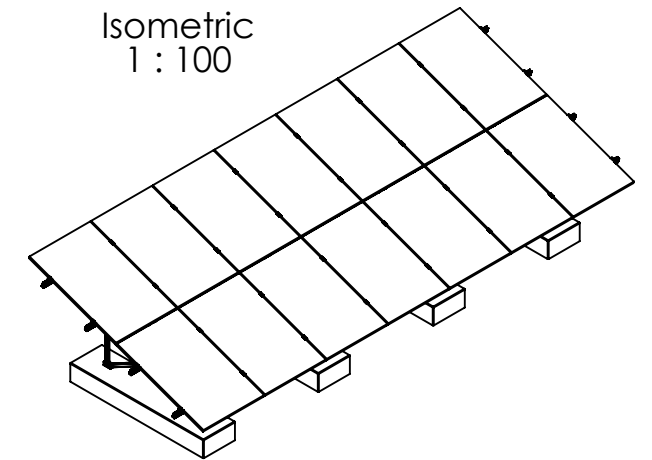
Data sheet
N-Rack 2.20 Gabion 2x12 L

A3

Concrete Kit 2x7 S



Isometric
1 : 100



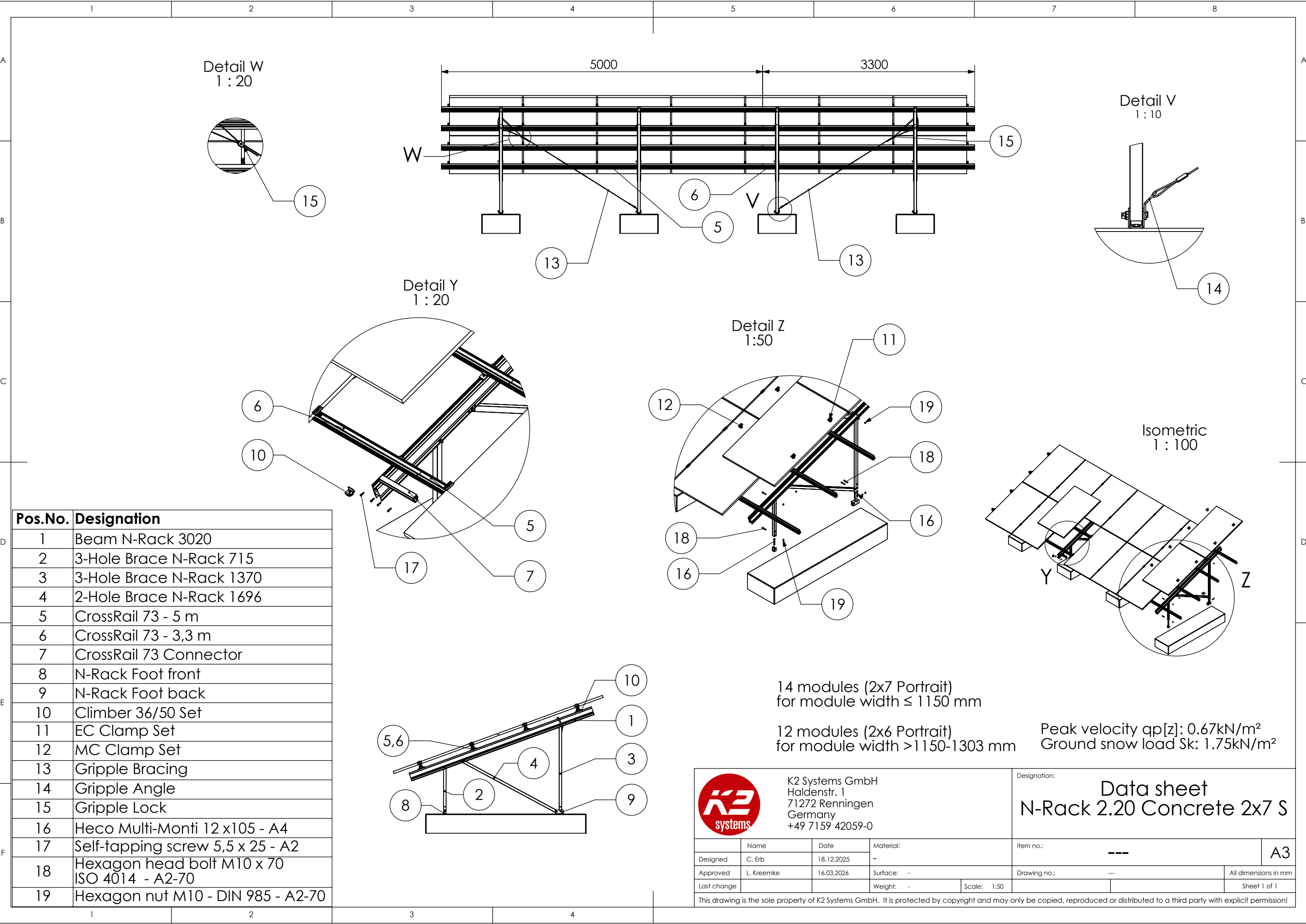
Peak velocity qp[z]: 0.67kN/m²
 Ground snow load Sk: 1.75kN/m²



Designation:	Data sheet N-Rack 2.20 Concrete 2x7 S
--------------	--

	Name	Date	Material:		Item no.: ----		A3
Designed	C. Erb	18.12.2025	-				
Approved	L. Kreemke	16.03.2026	Surface: -		Drawing no.: ---		All dimensions in mm
Last change			Weight: -	Scale: 1:50			Sheet 1 of 1

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Pos.No.	Designation
1	Beam N-Rack 3020
2	3-Hole Brace N-Rack 715
3	3-Hole Brace N-Rack 1370
4	2-Hole Brace N-Rack 1696
5	CrossRail 73 - 5 m
6	CrossRail 73 - 3,3 m
7	CrossRail 73 Connector
8	N-Rack Foot front
9	N-Rack Foot back
10	Climber 36/50 Set
11	EC Clamp Set
12	MC Clamp Set
13	Gripple Bracing
14	Gripple Angle
15	Gripple Lock
16	Heco Multi-Monti 12 x105 - A4
17	Self-tapping screw 5,5 x 25 - A2
18	Hexagon head bolt M10 x 70 ISO 4014 - A2-70
19	Hexagon nut M10 - DIN 985 - A2-70

14 modules (2x7 Portrait)
for module width ≤ 1150 mm

12 modules (2x6 Portrait)
for module width >1150-1303 mm

Peak velocity $q_p[z]$: 0.67kN/m²
Ground snow load S_k : 1.75kN/m²



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Designation:		Data sheet	
		N-Rack 2.20 Concrete 2x7 S	
Item no.:	---	A3	
Drawing no.:	---	All dimensions in mm	
Sheet 1 of 1			

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Concrete Kit 2x7 L

8300

3300 5000

min. 45

850 1038-1150 19

min. 45

X

e=1700

k=750 4x1700 = (6800) (750)

View X
1 : 20

1906-2384 3832-4788 20

20°

2037-2201 1800 517 530-694

z=2500

Acc. to the installation manual,
the clamp position and the modules
have to be installed in a symmetrical
arrangement to the beam length.

Isometric
1 : 100

14 modules (2x7 Portrait)
for module width ≤ 1150 mm

12 modules (2x6 Portrait)
for module width > 1150-1303 mm

Peak velocity $q_p[z]$: 0.67kN/m²
Ground snow load S_k : 1.75kN/m²

K2
systems

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71272 Renningen
Germany
+49 7159 42059-0

Designation:
Data sheet
N-Rack 2.20 Concrete 2x7 L

	Name	Date	Material:	Item no.:	A3
Designed	C. Erb	16.12.2025	-	---	
Approved	L. Kreemke	16.03.2026	Surface: -		
Last change			Weight: - Scale: 1:50		
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Isometric
1 : 100

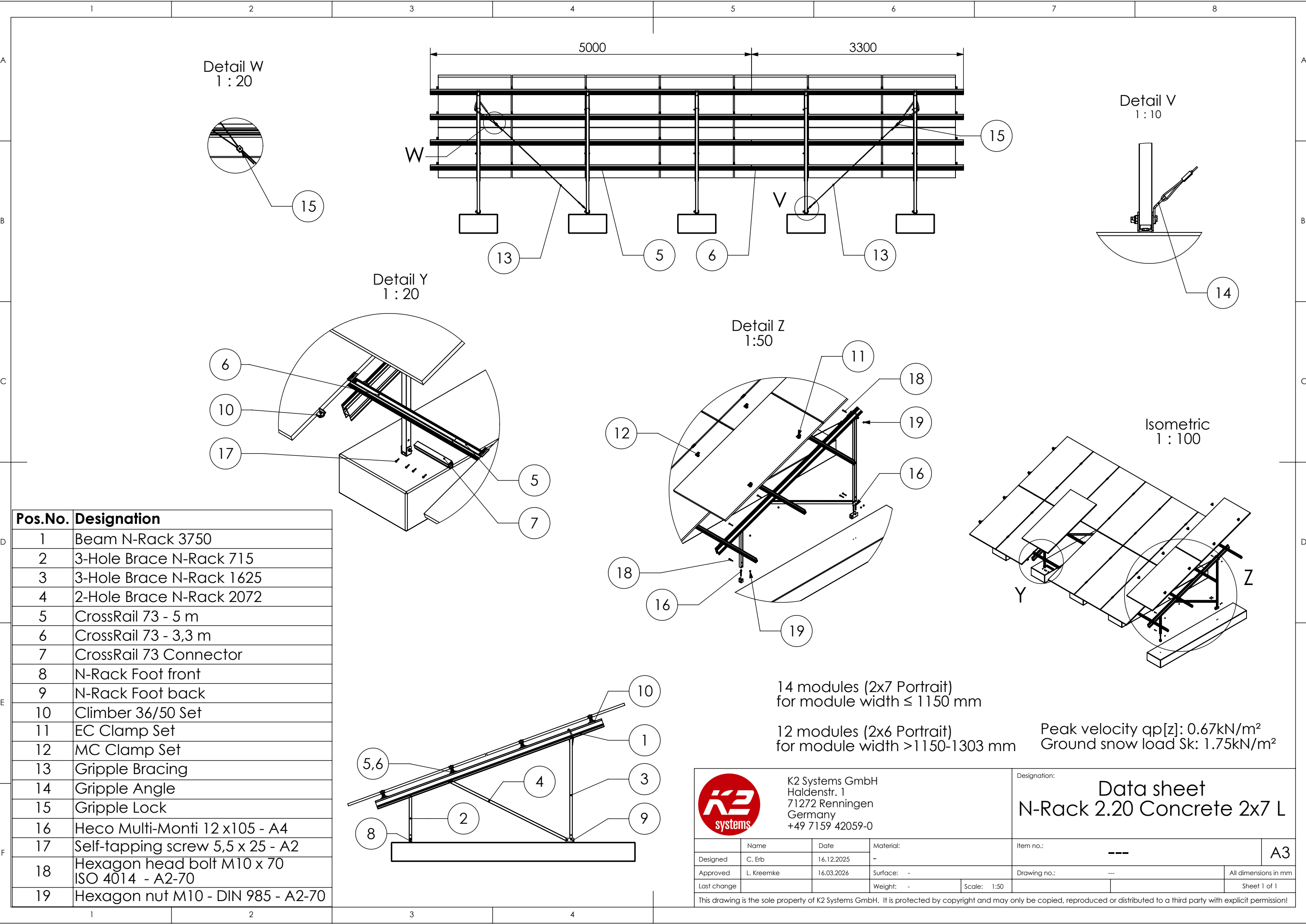
Peak velocity qp[z]: 0.67kN/m²
Ground snow load Sk: 1.75kN/m²



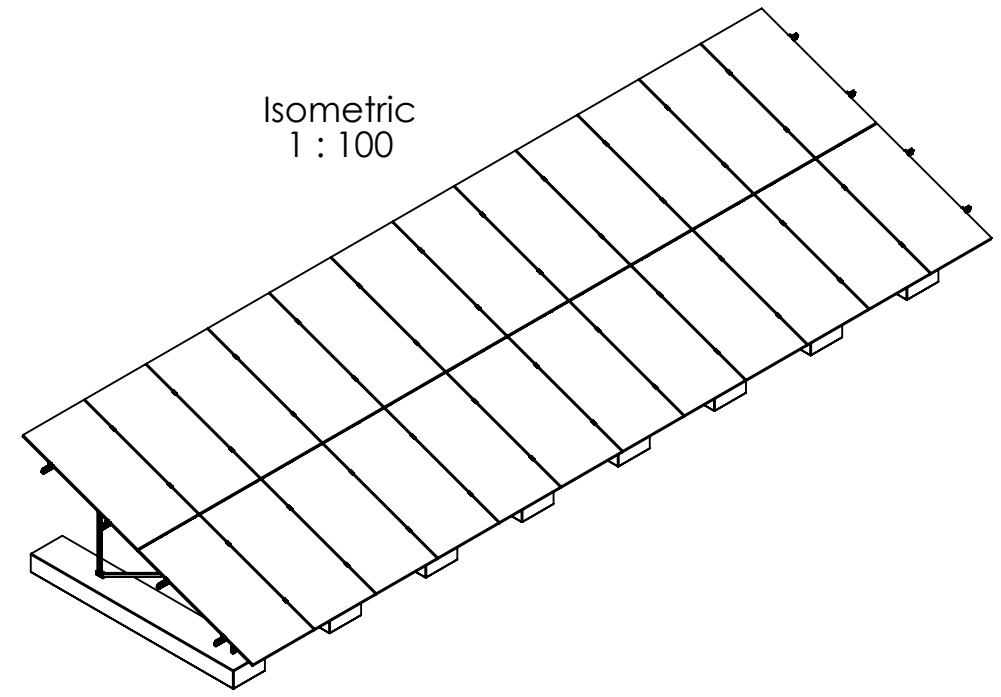
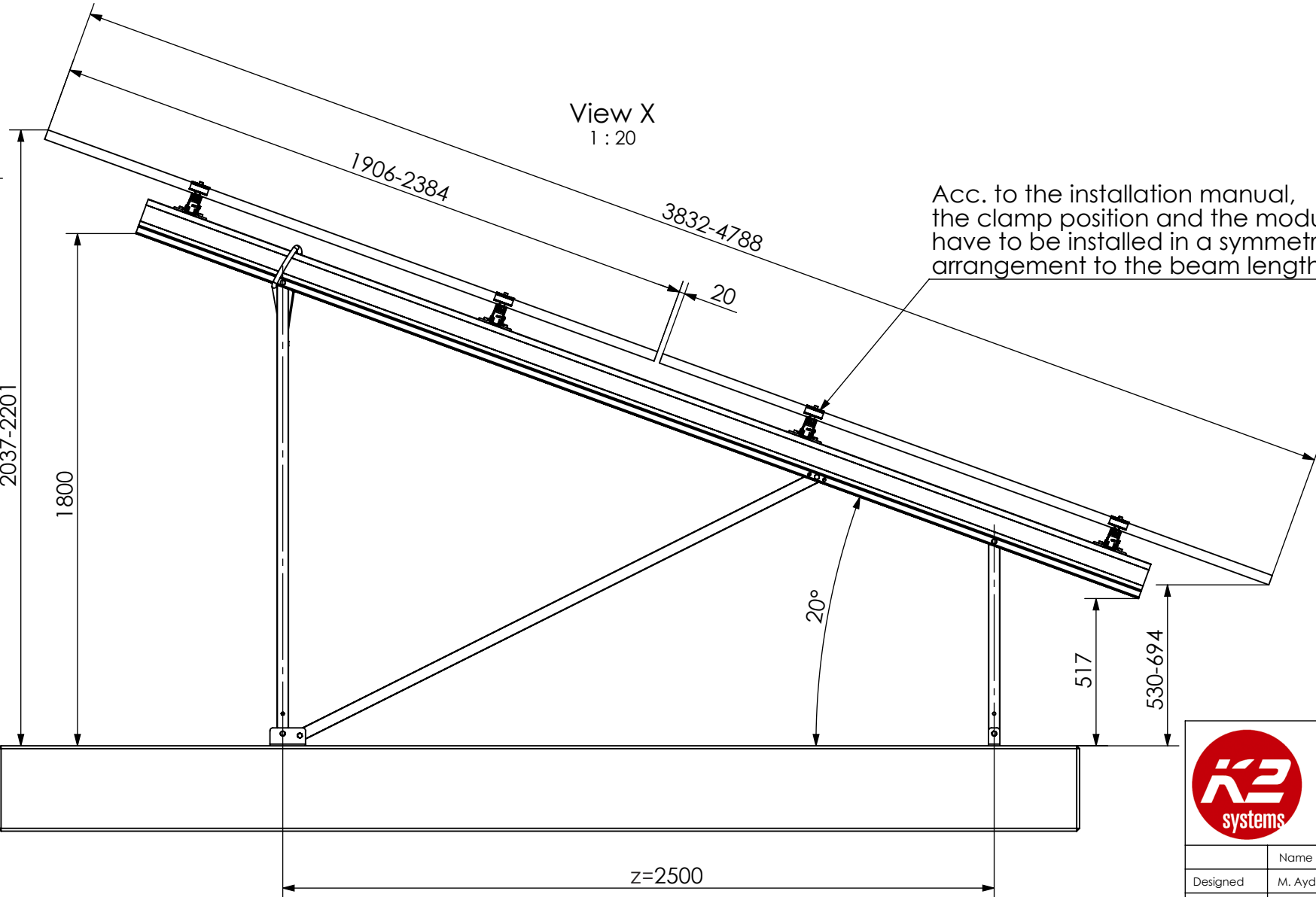
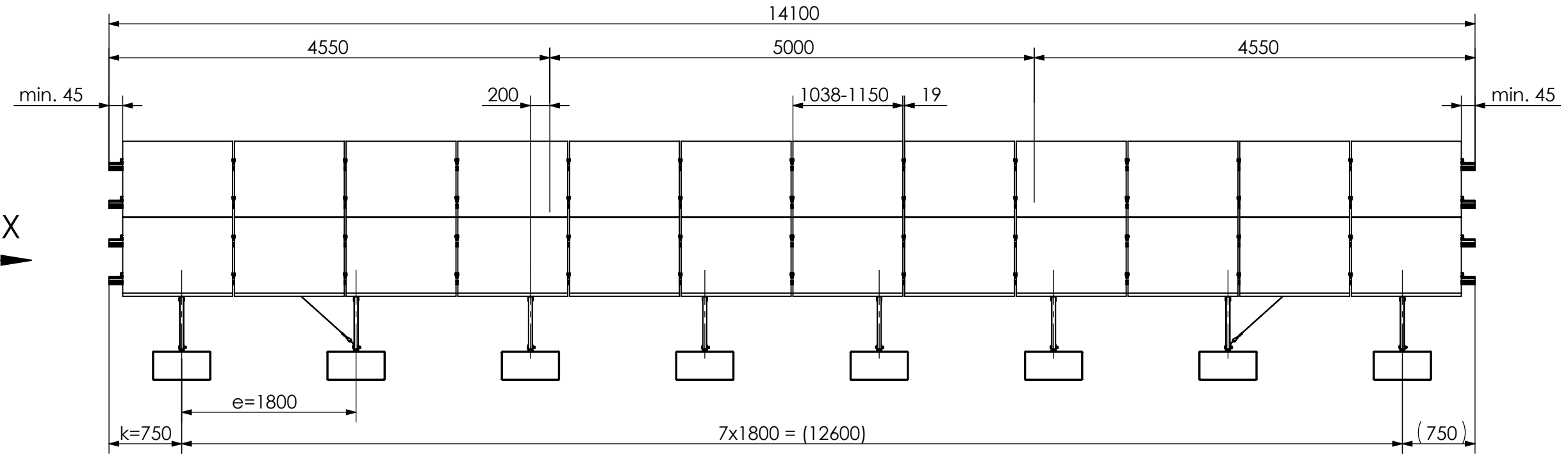
Designation:	Data sheet N-Rack 2.20 Concrete 2x7 L
--------------	--

	Name	Date	Material:		Item no.:		A3
Designed	C. Erb	16.12.2025	-		---		
Approved	L. Kreemke	16.03.2026	Surface: -		Drawing no.: ---		All dimensions in mm
Last change			Weight: -	Scale: 1:50			Sheet 1 of 1
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Concrete Kit 2x12 L



24 modules (2x12 Portrait)
for module width ≤ 1150mm

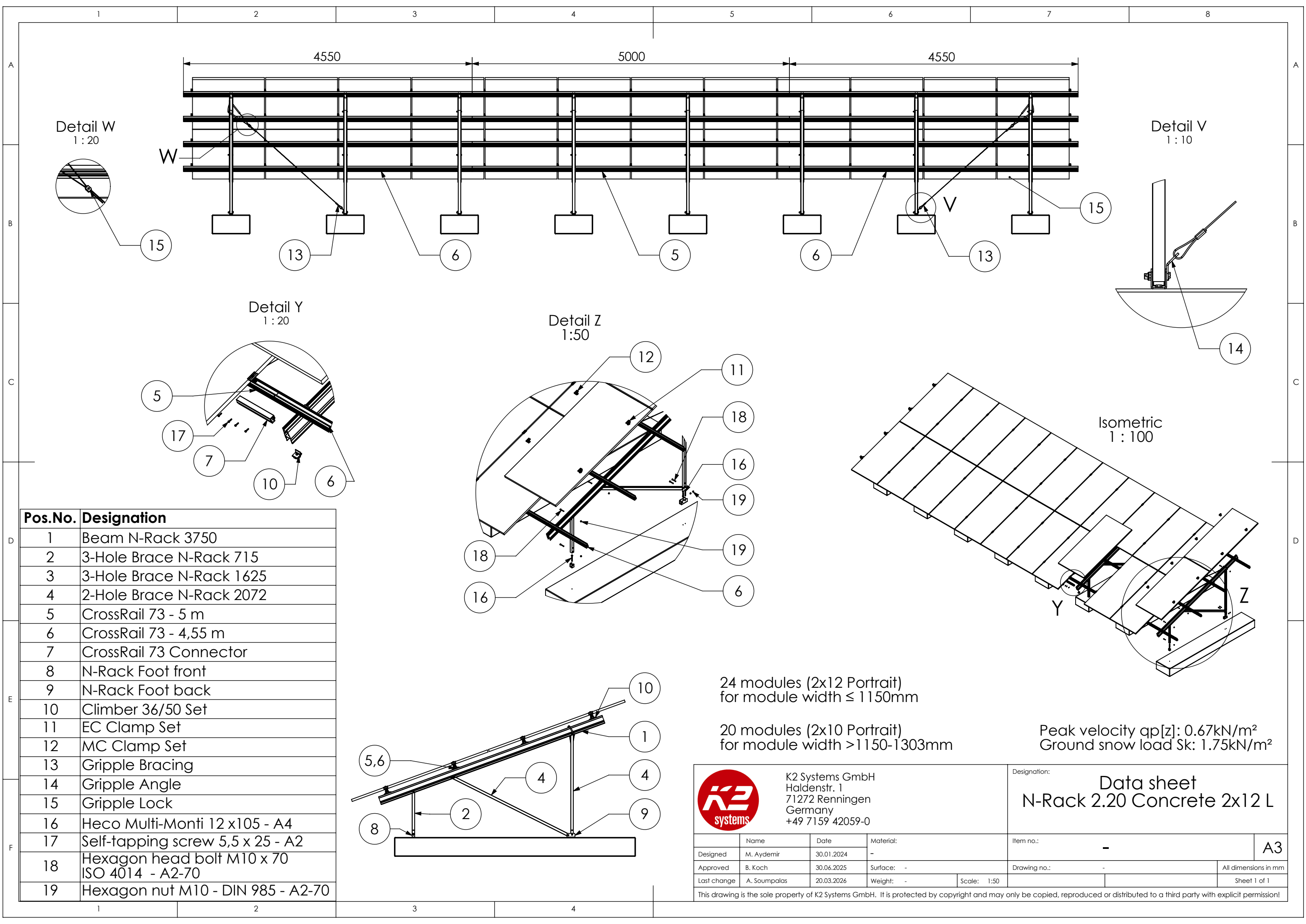
20 modules (2x10 Portrait)
for module width > 1150-1303mm

Peak velocity $q_p[z]$: 0.67kN/m²
Ground snow load S_k : 1.75kN/m²



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Designation:		Data sheet	
		N-Rack 2.20 Concrete 2x12 L	
Item no.:	-	A3	
Drawing no.:	-	All dimensions in mm	
Sheet 1 of 1			



Pos.No.	Designation
1	Beam N-Rack 3750
2	3-Hole Brace N-Rack 715
3	3-Hole Brace N-Rack 1625
4	2-Hole Brace N-Rack 2072
5	CrossRail 73 - 5 m
6	CrossRail 73 - 4,55 m
7	CrossRail 73 Connector
8	N-Rack Foot front
9	N-Rack Foot back
10	Climber 36/50 Set
11	EC Clamp Set
12	MC Clamp Set
13	Gripple Bracing
14	Gripple Angle
15	Gripple Lock
16	Heco Multi-Monti 12 x105 - A4
17	Self-tapping screw 5,5 x 25 - A2
18	Hexagon head bolt M10 x 70 ISO 4014 - A2-70
19	Hexagon nut M10 - DIN 985 - A2-70

24 modules (2x12 Portrait)
for module width ≤ 1150mm

20 modules (2x10 Portrait)
for module width >1150-1303mm

Peak velocity qp[z]: 0.67kN/m²
Ground snow load Sk: 1.75kN/m²



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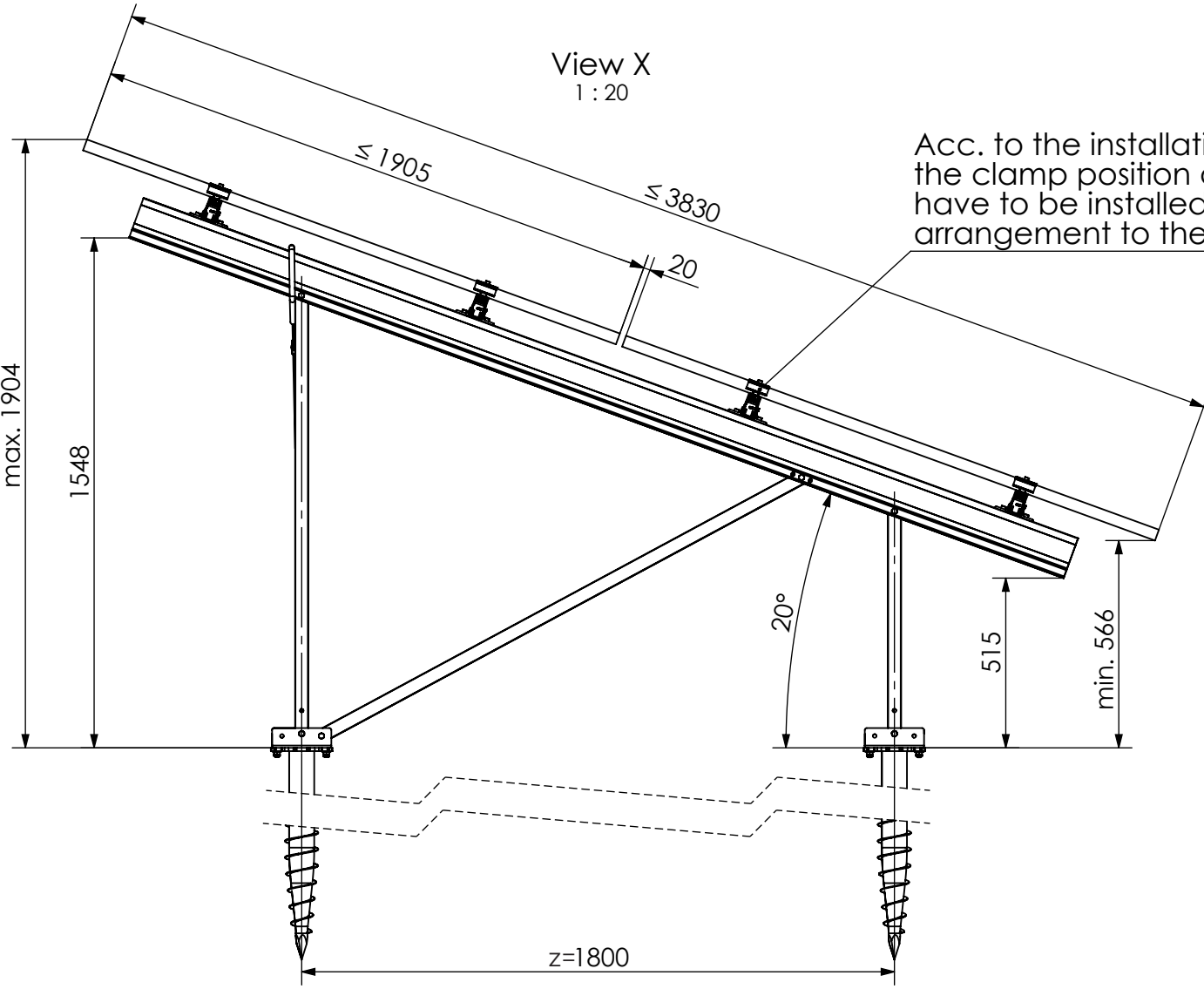
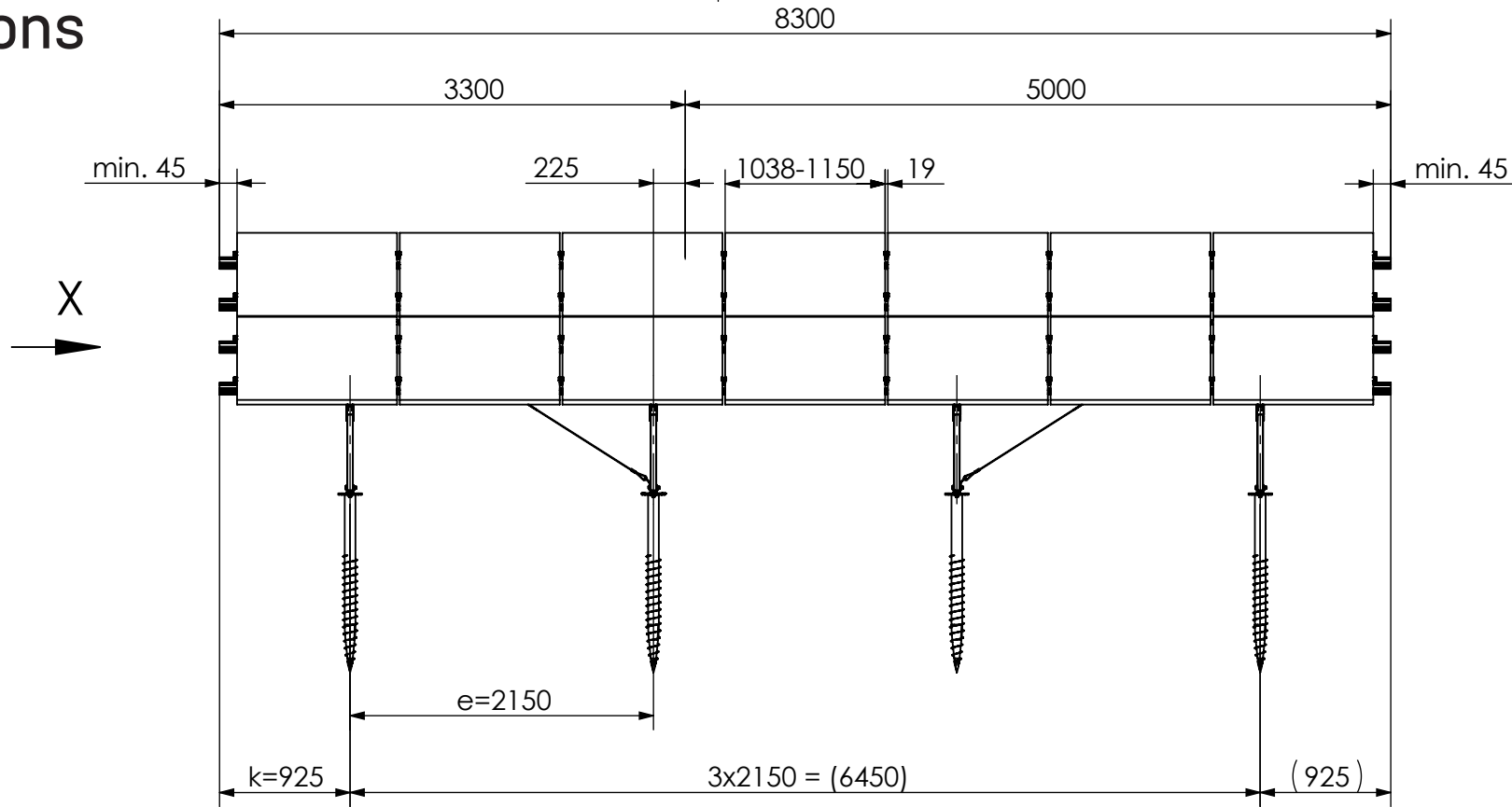
Designation:
**Data sheet
N-Rack 2.20 Concrete 2x12 L**

	Name	Date	Material:	Item no.:	-	A3
Designed	M. Aydemir	30.01.2024	-			
Approved	B. Koch	30.06.2025	Surface: -	Drawing no.:	-	All dimensions in mm
Last change	A. Soumpalas	20.03.2026	Weight: -	Scale: 1:50		Sheet 1 of 1

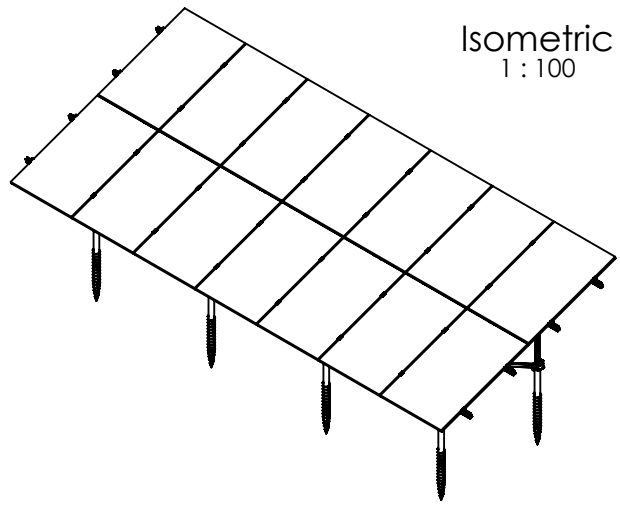
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Ground screw foundations

Groundscrew Kit 2x7 S



Acc. to the installation manual, the clamp position and the modules have to be installed in a symmetrical arrangement to the beam length.



14 modules (2x7 Portrait)
for module width ≤ 1150 mm

12 modules (2x6 Portrait)
for module width > 1150-1303 mm

Peak velocity qp[z]: 0.67kN/m²
Ground snow load Sk: 1.75kN/m²

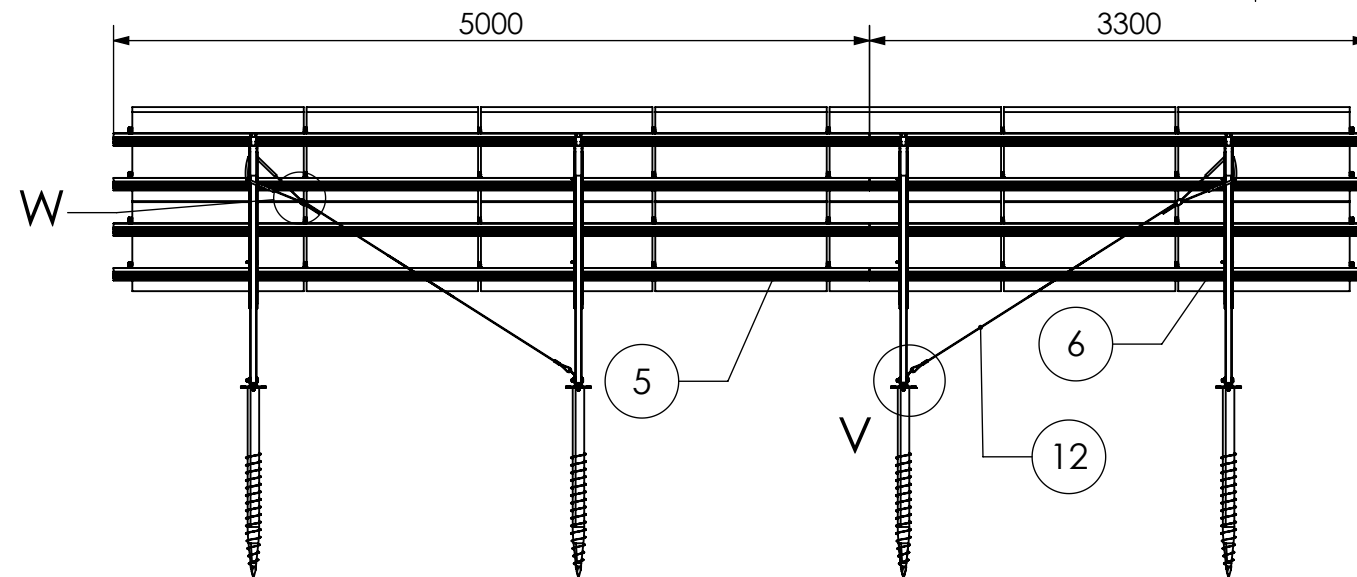


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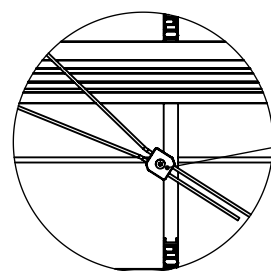
Designation: Data sheet
N-Rack 2.20 Groundscrew 2x7 S

	Name	Date	Material:	Item no.:	A3
Designed	C. Erb	15.12.2025	-		
Approved	L. Kreemke	16.03.2026	Surface: -	Drawing no.:	All dimensions in mm
Last change			Weight: -	Scale: 1:50	Sheet 1 of 1

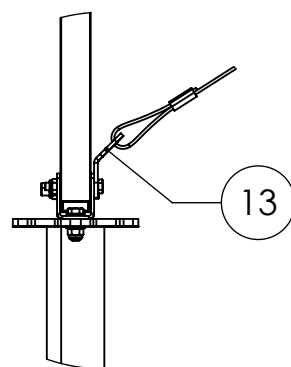
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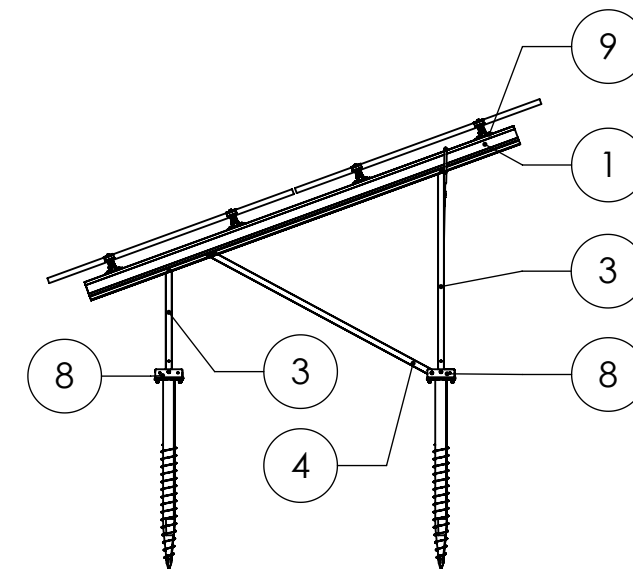
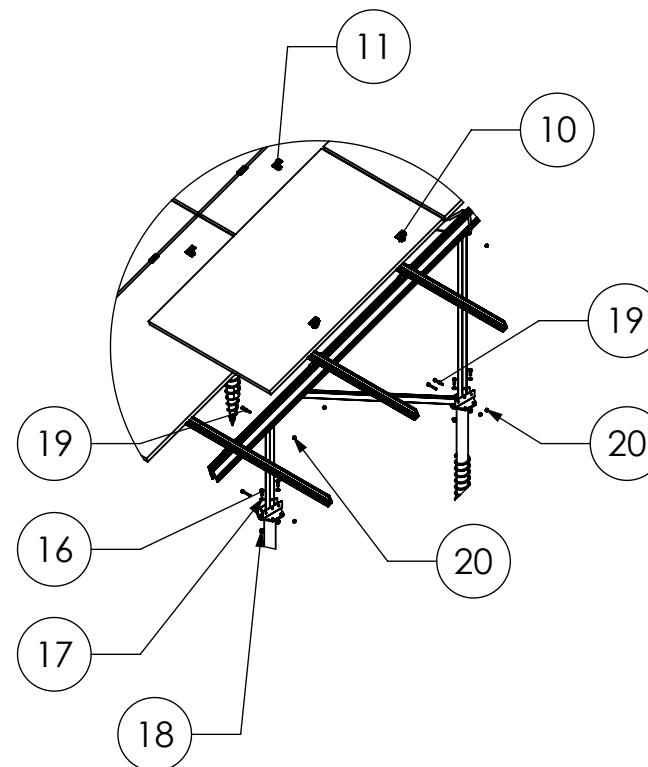
Detail W
1 : 10



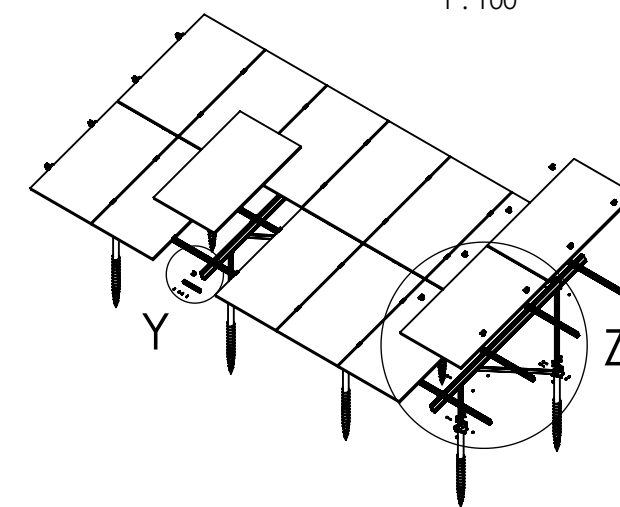
Detail V
1 : 10



Detail Z
1:50

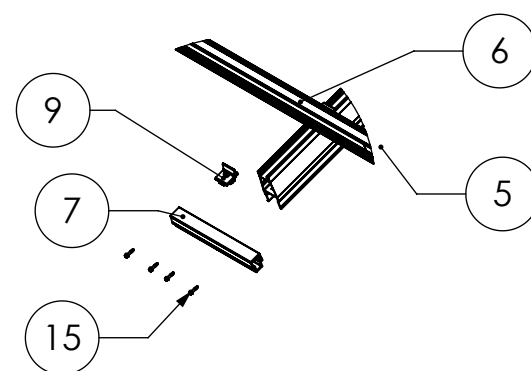


Isometric
1 : 100



Pos.No.	Designation
1	Beam N-Rack 3020
2	3-Hole Brace N-Rack 715
3	3-Hole Brace N-Rack 1370
4	2-Hole Brace N-Rack 1696
5	CrossRail 73 - 5 m
6	CrossRail 73 - 3,3 m
7	CrossRail 73 Connector
8	N-Rack GS Foot
9	Climber 36/50 Set
10	EC Clamp Set
11	MC Clamp Set
12	Gripple Bracing
13	Gripple Angle
14	Gripple Lock
15	Self-tapping screw 5,5 x 25 - A2
16	Hexagon head bolt - ISO 4017 - M8x35 - A2-70
17	Plain washer - ISO 7089 - 12 - A2-50
18	Hexagon nut with flange and clamping part - EN 1663 - M12 - A2-70
19	Hexagon head bolt - ISO 4014 - M10x70- A2-70
20	Hexagon nut with clamping piece - ISO 10511 - M10 - A2-70

Detail Y
1 : 20



14 modules (2x7 Portrait)
for module width ≤ 1150 mm

12 modules (2x6 Portrait)
for module width >1150-1303 mm

Peak velocity $q_p[z]$: 0.67kN/m²
Ground snow load S_k : 1.75kN/m²



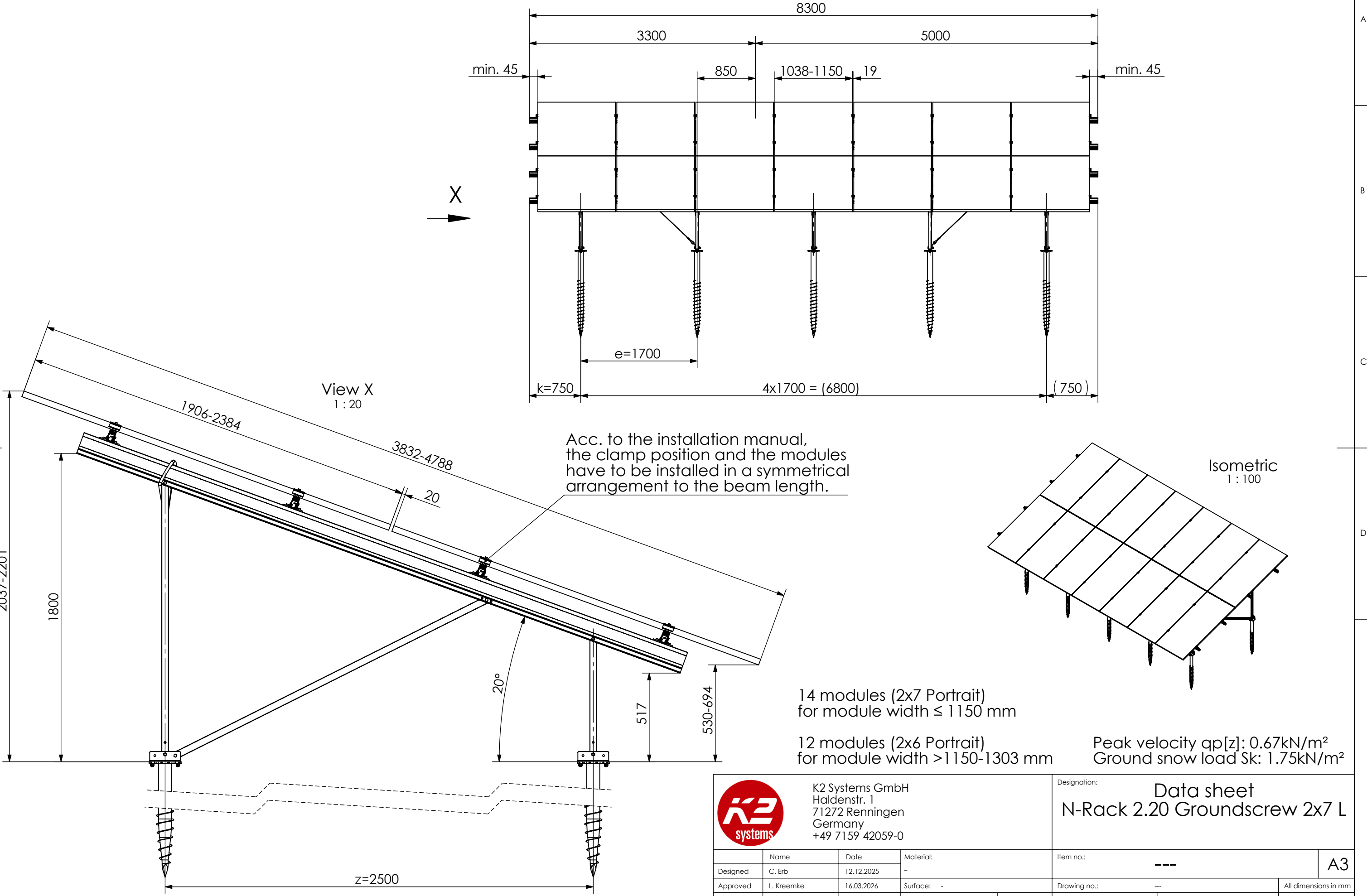
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71272 Renningen
Germany
+49 7159 42059-0

Designation: Data sheet
N-Rack 2.20 Groundscrew 2x7 S

Name	Date	Material:	Item no.:	A3
Designed C. Erb	15.12.2025	-	---	
Approved L. Kreemke	16.03.2026	Surface: -	Drawing no.: ---	All dimensions in mm
Last change		Weight: -	Scale: 1:50	Sheet 1 of 1

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Groundscrew Kit 2x7 L



14 modules (2x7 Portrait)
for module width ≤ 1150 mm

12 modules (2x6 Portrait)
for module width >1150-1303 mm

Peak velocity qp[z]: 0.67kN/m²
Ground snow load Sk: 1.75kN/m²

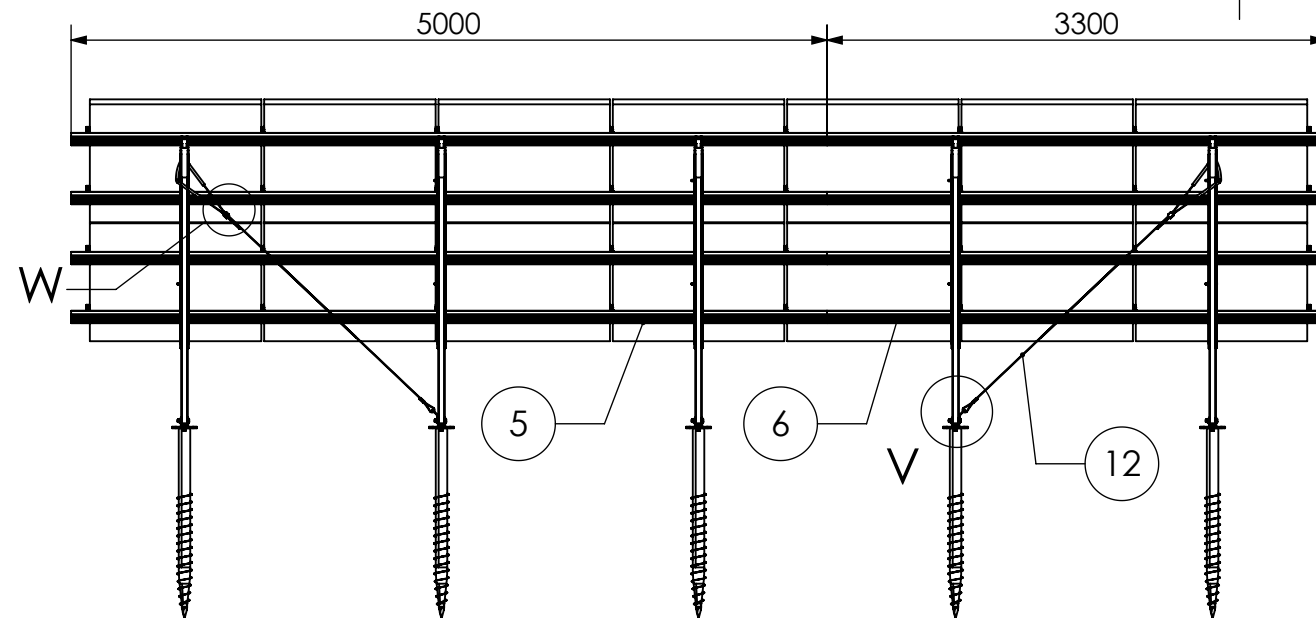


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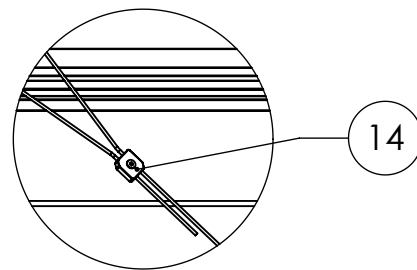
Designation: Data sheet
N-Rack 2.20 Groundscrew 2x7 L

	Name	Date	Material:	Item no.:	A3
Designed	C. Erb	12.12.2025	-		
Approved	L. Kreemke	16.03.2026	Surface: -	Drawing no.:	All dimensions in mm
Last change			Weight: -	Scale: 1:50	Sheet 1 of 1

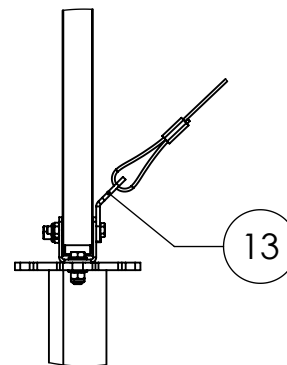
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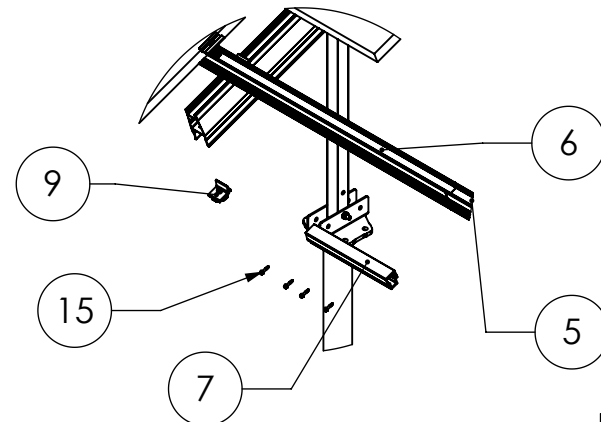
Detail W
1 : 10



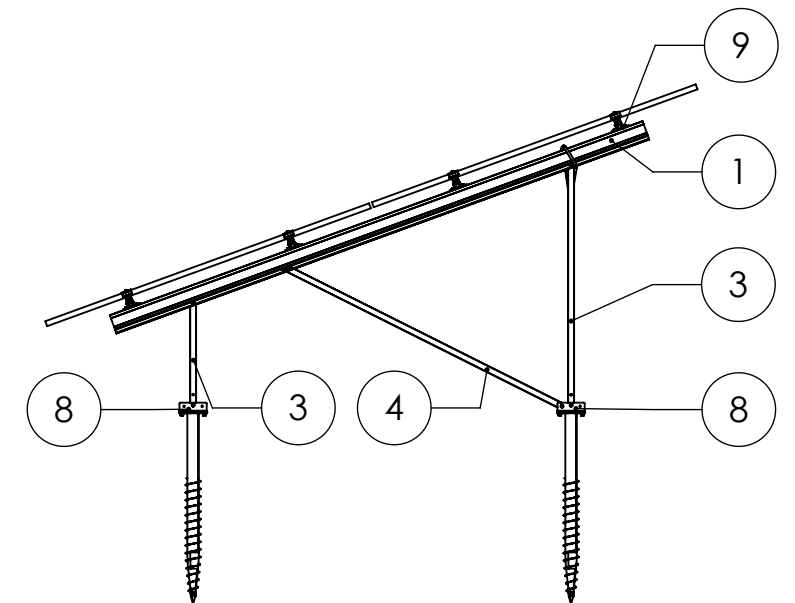
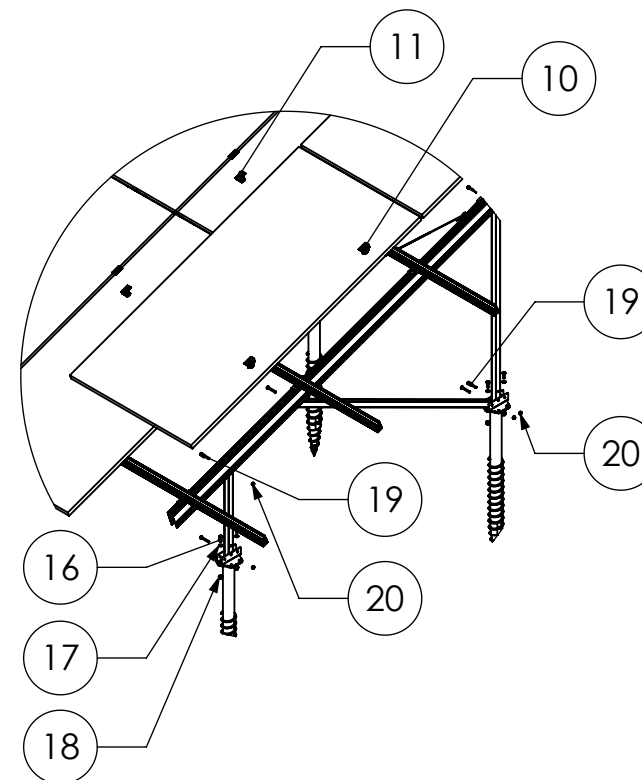
Detail V
1 : 10



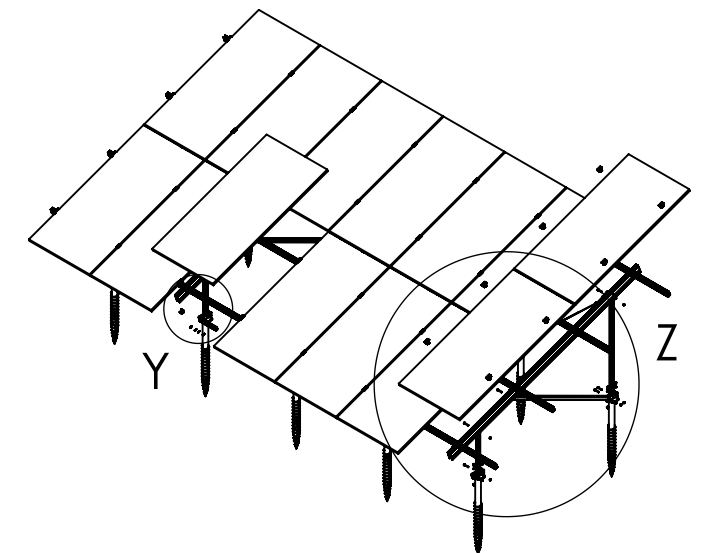
Detail Y
1 : 20



Detail Z
1:50



Isometric
1 : 100



Pos.No.	Designation
1	Beam N-Rack 3750
2	3-Hole Brace N-Rack 715
3	3-Hole Brace N-Rack 1625
4	2-Hole Brace N-Rack 2072
5	CrossRail 73 - 5 m
6	CrossRail 73 - 3,3 m
7	CrossRail 73 Connector
8	N-Rack GS Foot
9	Climber 36/50 Set
10	EC Clamp Set
11	MC Clamp Set
12	Gripple Bracing
13	Gripple Angle
14	Gripple Lock
15	Self-tapping screw 5,5 x 25 - A2
16	Hexagon head bolt - ISO 4017 - M8x35 - A2-70
17	Plain washer - ISO 7089 - 12 - A2-50
18	Hexagon nut with flange and clamping part - EN 1663 - M12 - A2-70
19	Hexagon head bolt - ISO 4014 - M10x70- A2-70
20	Hexagon nut with clamping piece - ISO 10511 - M10 - A2-70

14 modules (2x7 Portrait)
for module width ≤ 1150 mm

12 modules (2x6 Portrait)
for module width $>1150-1303$ mm

Peak velocity $q_p[z]$: 0.67 kN/m^2
Ground snow load S_k : 1.75 kN/m^2



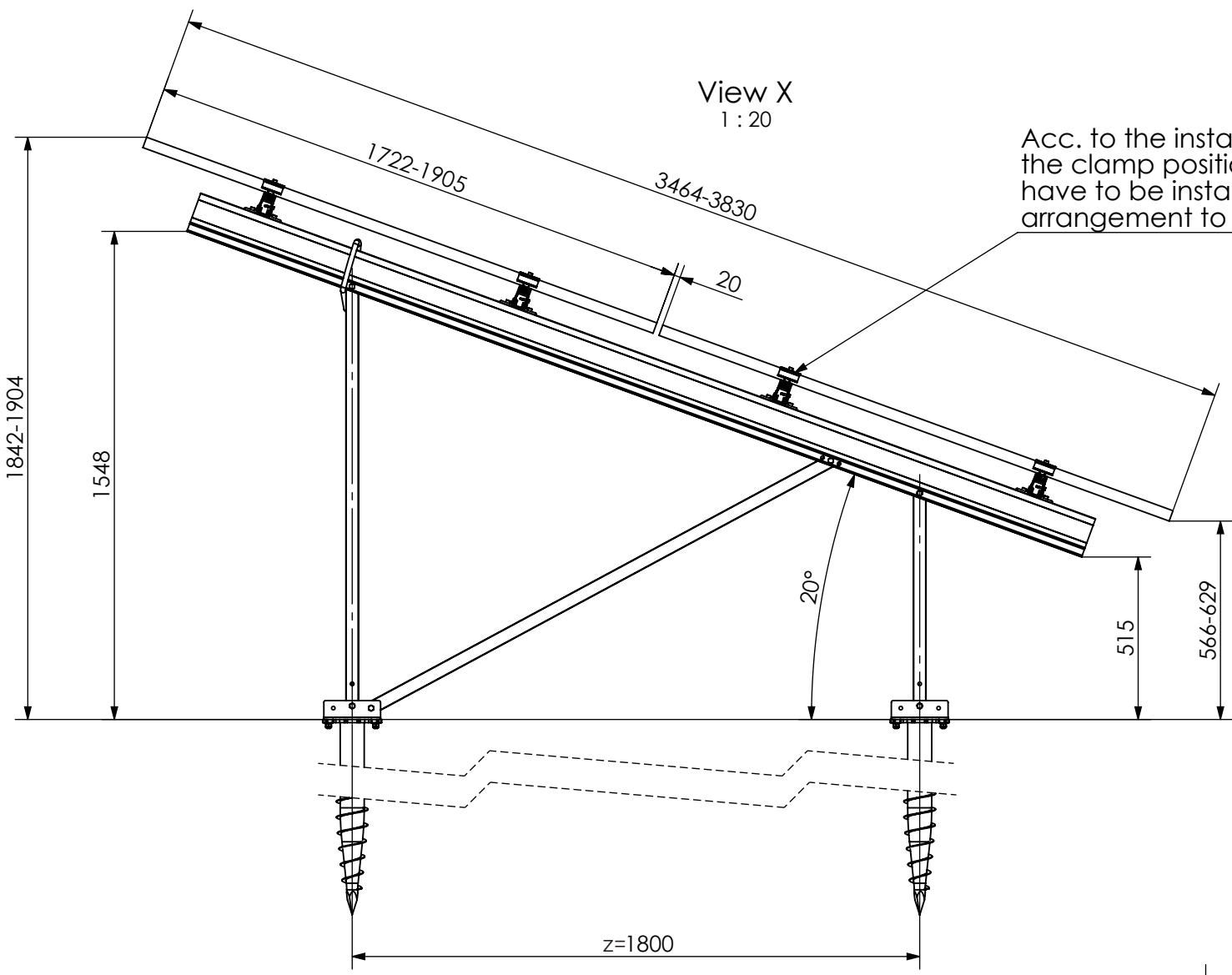
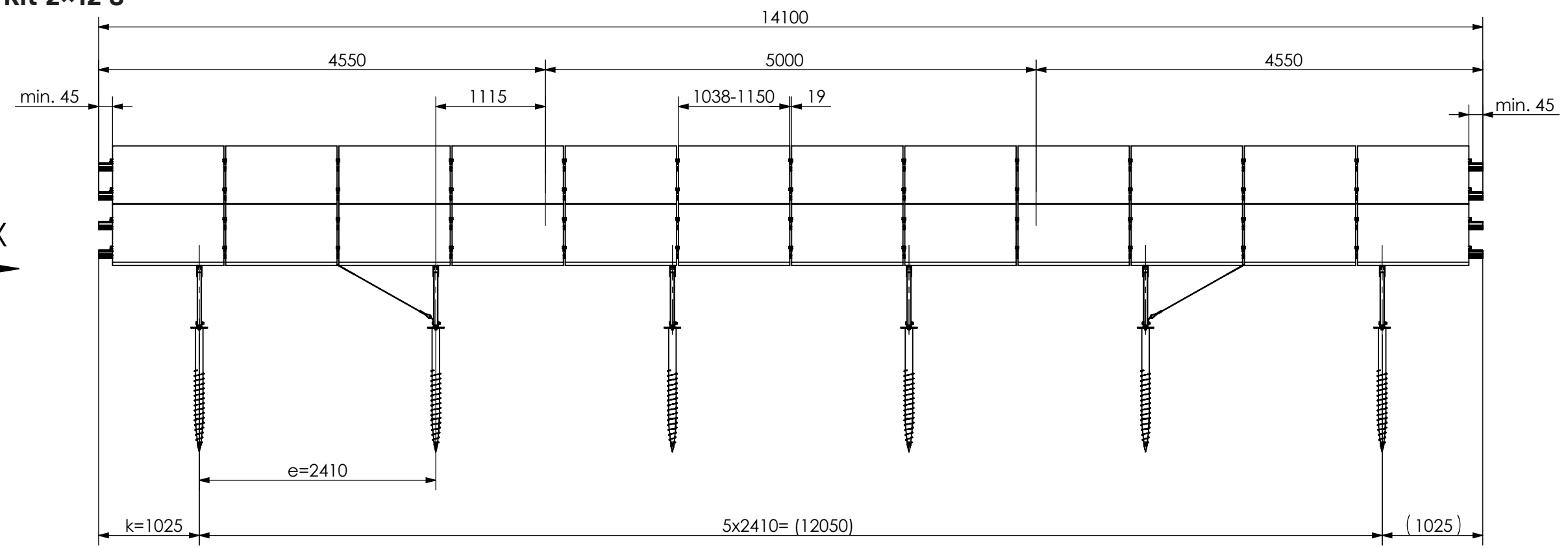
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Haldenstr. 1
71272 Renningen
Germany
+49 7159 42059-0

Designation: **Data sheet**
N-Rack 2.20 Groundscrew 2x7 L

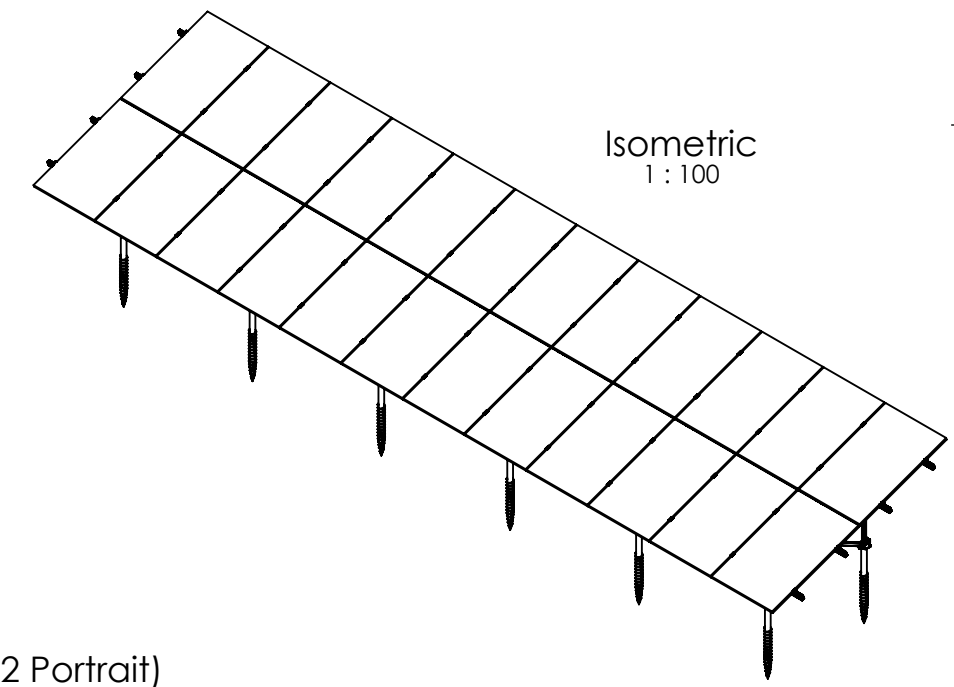
Name	Date	Material:	Item no.:	A3
Designed C. Erb	12.12.2025	-	---	
Approved L. Kreemke	16.03.2026	Surface: -	Drawing no.: ---	All dimensions in mm
Last change		Weight: -	Scale: 1:50	Sheet 1 of 1

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Groundscrew Kit 2x12 S



Acc. to the installation manual, the clamp position and the modules have to be installed in a symmetrical arrangement to the beam length.

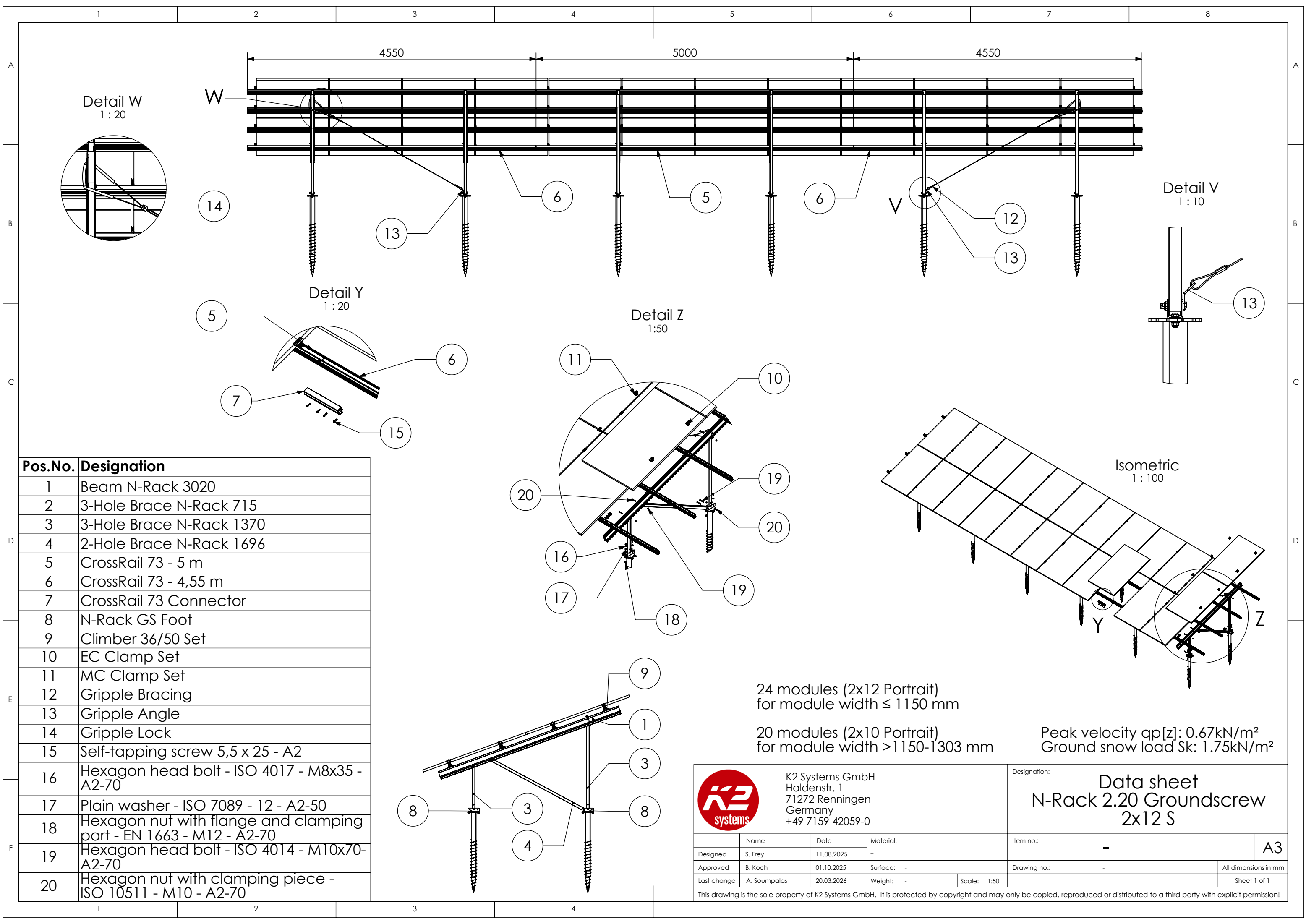


24 modules (2x12 Portrait)
for module width ≤ 1150 mm

20 modules (2x10 Portrait)
for module width > 1150-1303 mm

Peak velocity $q_p[z]$: 0.67kN/m²
Ground snow load S_k : 1.75kN/m²

 K2 Systems GmbH Haldenstr. 1 71272 Renningen Germany +49 7159 42059-0				Designation: Data sheet N-Rack 2.20 Groundscrew 2x12 S		
	Name	Date	Material:	Item no.: -		A3
Designed	S. Frey	11.08.2025	-			
Approved	B. Koch	01.10.2025	Surface: -	Drawing no.: -		All dimensions in mm
Last change	A. Soumpalas	20.03.2026	Weight: -	Scale: 1:50		Sheet 1 of 1
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Pos.No.	Designation
1	Beam N-Rack 3020
2	3-Hole Brace N-Rack 715
3	3-Hole Brace N-Rack 1370
4	2-Hole Brace N-Rack 1696
5	CrossRail 73 - 5 m
6	CrossRail 73 - 4,55 m
7	CrossRail 73 Connector
8	N-Rack GS Foot
9	Climber 36/50 Set
10	EC Clamp Set
11	MC Clamp Set
12	Gripple Bracing
13	Gripple Angle
14	Gripple Lock
15	Self-tapping screw 5,5 x 25 - A2
16	Hexagon head bolt - ISO 4017 - M8x35 - A2-70
17	Plain washer - ISO 7089 - 12 - A2-50
18	Hexagon nut with flange and clamping part - EN 1663 - M12 - A2-70
19	Hexagon head bolt - ISO 4014 - M10x70-A2-70
20	Hexagon nut with clamping piece - ISO 10511 - M10 - A2-70

24 modules (2x12 Portrait)
for module width ≤ 1150 mm

20 modules (2x10 Portrait)
for module width >1150-1303 mm

Peak velocity qp[z]: 0.67kN/m²
Ground snow load Sk: 1.75kN/m²



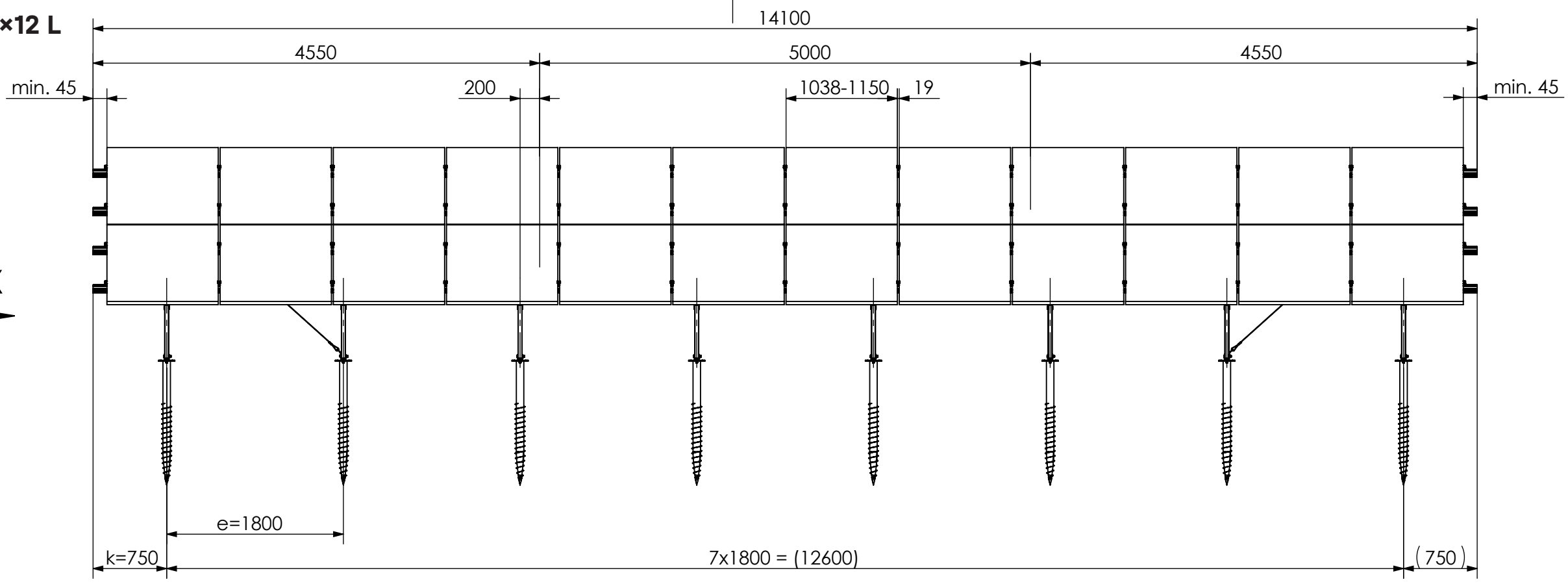
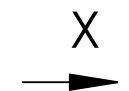
K2 Systems GmbH
Haldenstr. 1
71272 Renningen
Germany
+49 7159 42059-0

Designation:
**Data sheet
N-Rack 2.20 Groundscrew
2x12 S**

	Name	Date	Material:	Item no.:	-	A3
Designed	S. Frey	11.08.2025	-			
Approved	B. Koch	01.10.2025	Surface: -	Drawing no.:	-	All dimensions in mm
Last change	A. Soumpalas	20.03.2026	Weight: -	Scale: 1:50		Sheet 1 of 1

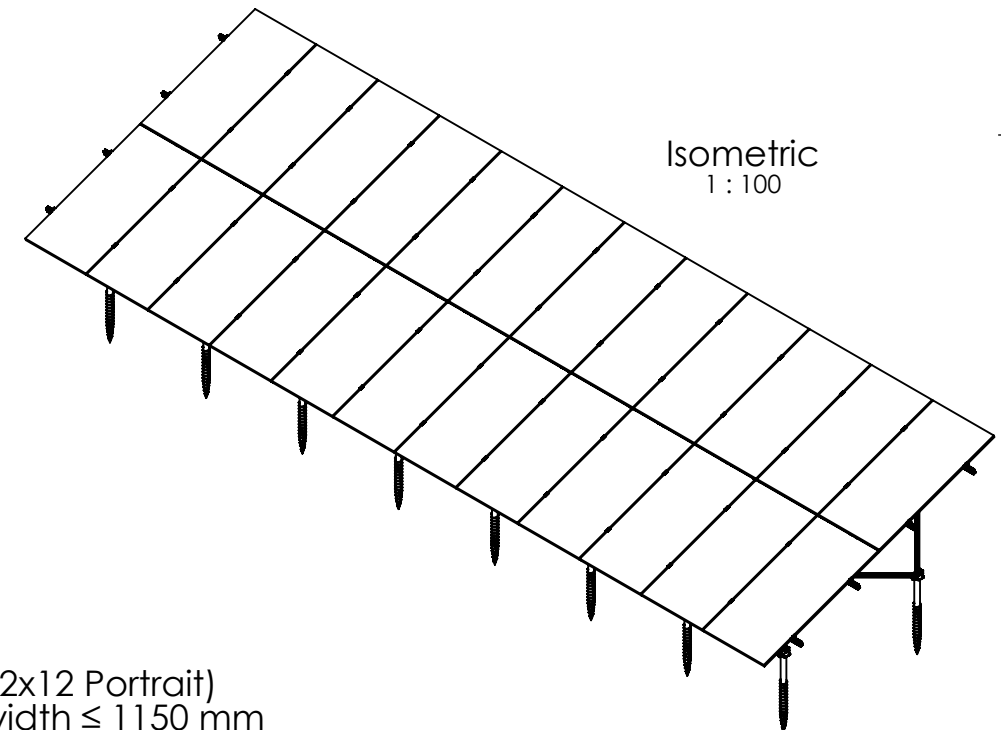
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Groundscrew Kit 2x12 L

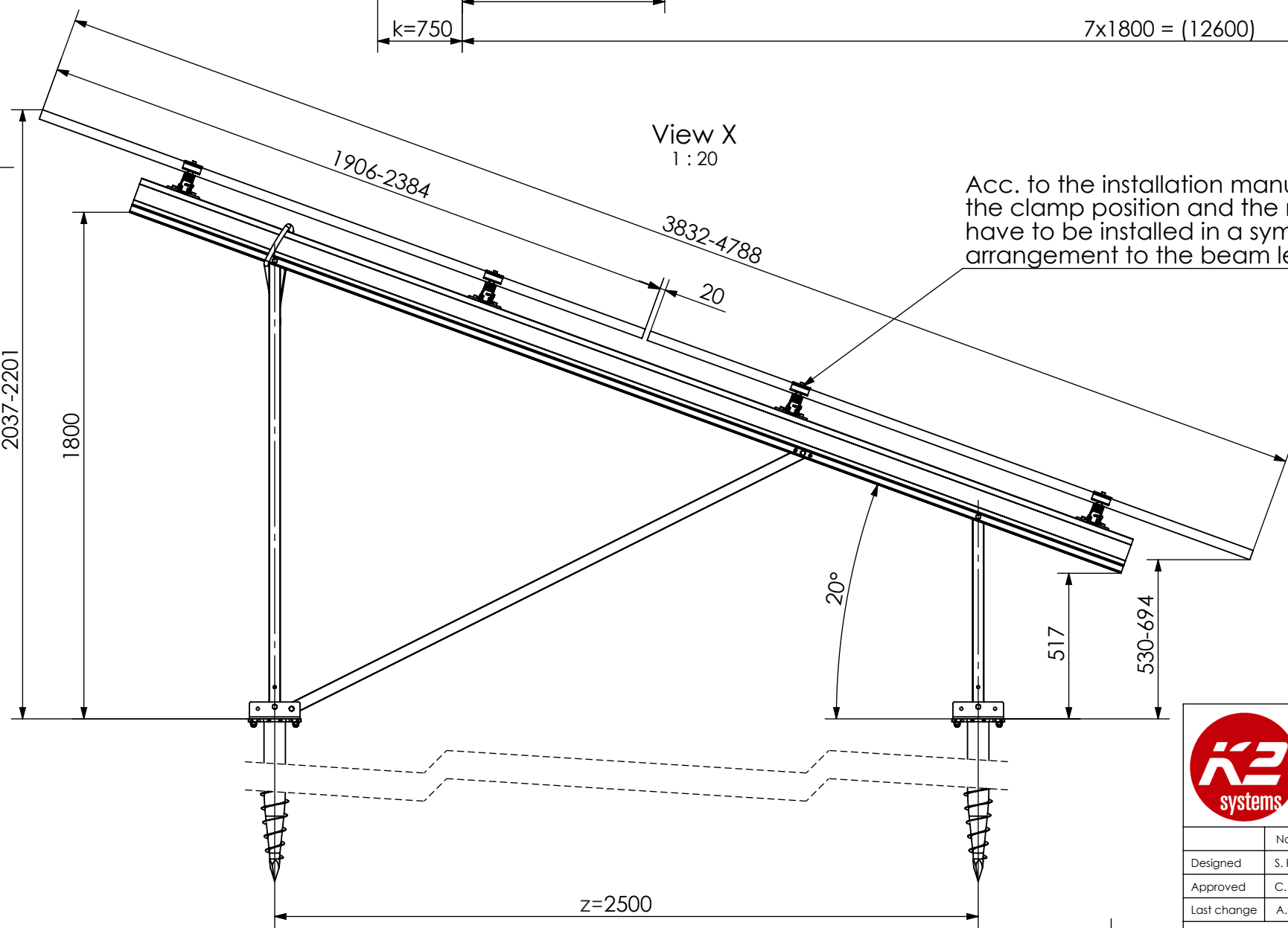


View X
1 : 20

Acc. to the installation manual,
the clamp position and the modules
have to be installed in a symmetrical
arrangement to the beam length.



Isometric
1 : 100



24 modules (2x12 Portrait)
for module width ≤ 1150 mm

20 modules (2x10 Portrait)
for module width > 1150-1303 mm

Peak velocity $q_p[z]$: 0.67kN/m²
Ground snow load S_k : 1.75kN/m²

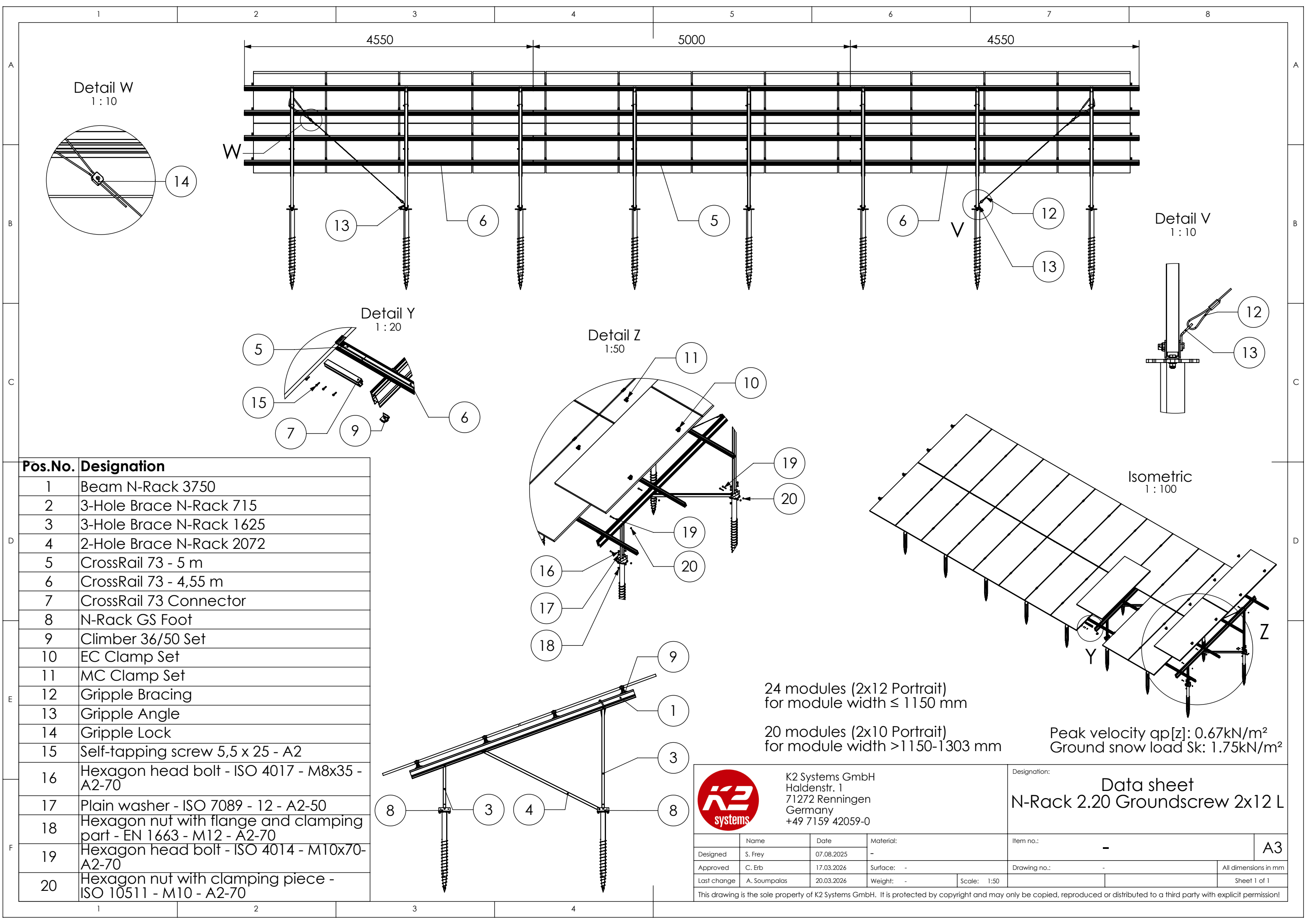


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71272 Renningen
Germany
+49 7159 42059-0

Designation: Data sheet
N-Rack 2.20 Groundscrew 2x12 L

	Name	Date	Material:	Item no.:	-	A3
Designed	S. Frey	07.08.2025	-			
Approved	C. Erb	17.03.2026	Surface: -	Drawing no.:	-	All dimensions in mm
Last change	A. Soumpalas	20.03.2026	Weight: -	Scale: 1:50		Sheet 1 of 1

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Pos.No.	Designation
1	Beam N-Rack 3750
2	3-Hole Brace N-Rack 715
3	3-Hole Brace N-Rack 1625
4	2-Hole Brace N-Rack 2072
5	CrossRail 73 - 5 m
6	CrossRail 73 - 4,55 m
7	CrossRail 73 Connector
8	N-Rack GS Foot
9	Climber 36/50 Set
10	EC Clamp Set
11	MC Clamp Set
12	Gripple Bracing
13	Gripple Angle
14	Gripple Lock
15	Self-tapping screw 5,5 x 25 - A2
16	Hexagon head bolt - ISO 4017 - M8x35 - A2-70
17	Plain washer - ISO 7089 - 12 - A2-50
18	Hexagon nut with flange and clamping part - EN 1663 - M12 - A2-70
19	Hexagon head bolt - ISO 4014 - M10x70-A2-70
20	Hexagon nut with clamping piece - ISO 10511 - M10 - A2-70



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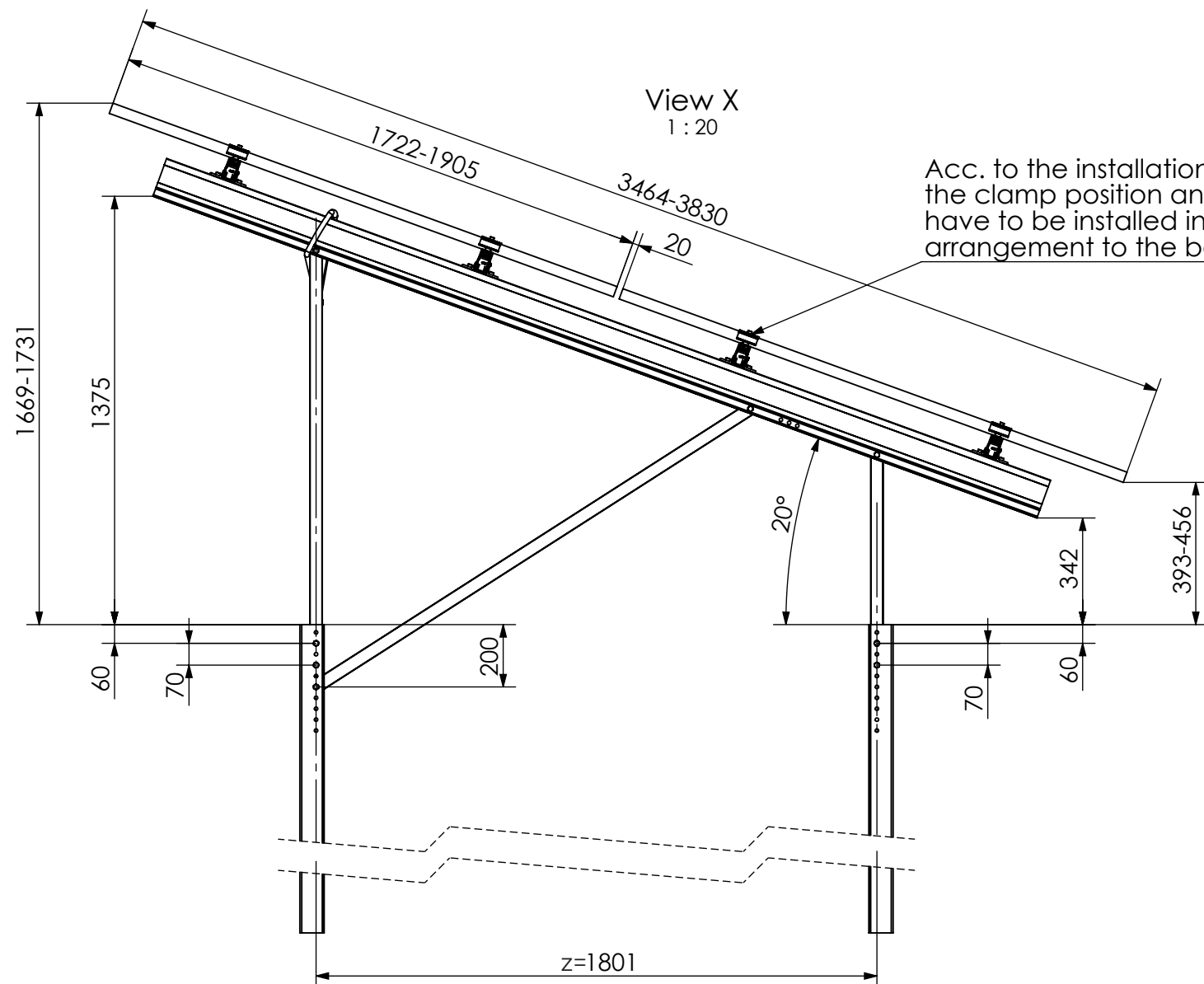
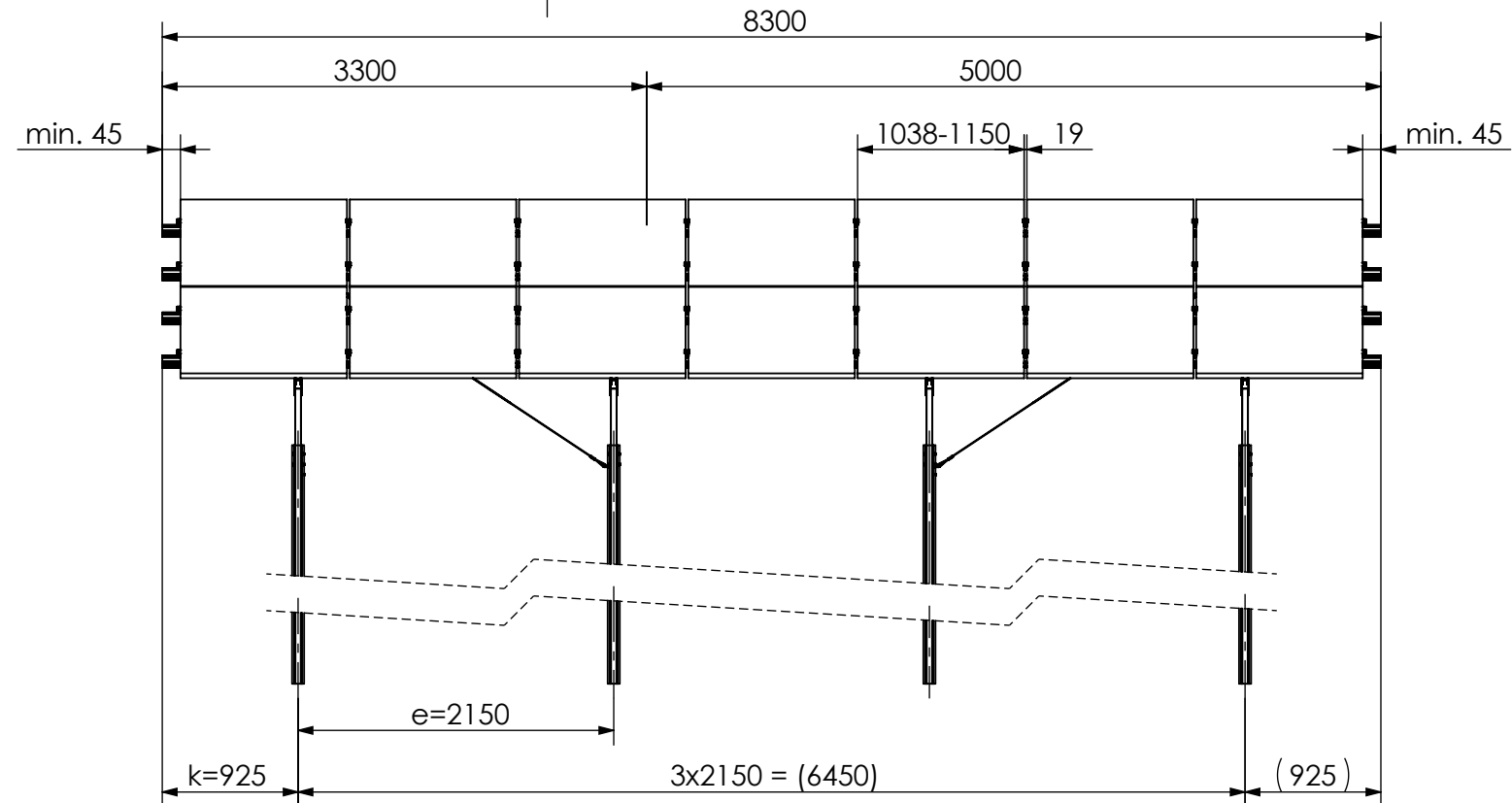
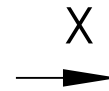
	Name	Date	Material:
Designed	S. Frey	07.08.2025	-
Approved	C. Erb	17.03.2026	Surface: -
Last change	A. Soumpalas	20.03.2026	Weight: -

Scale: 1:50

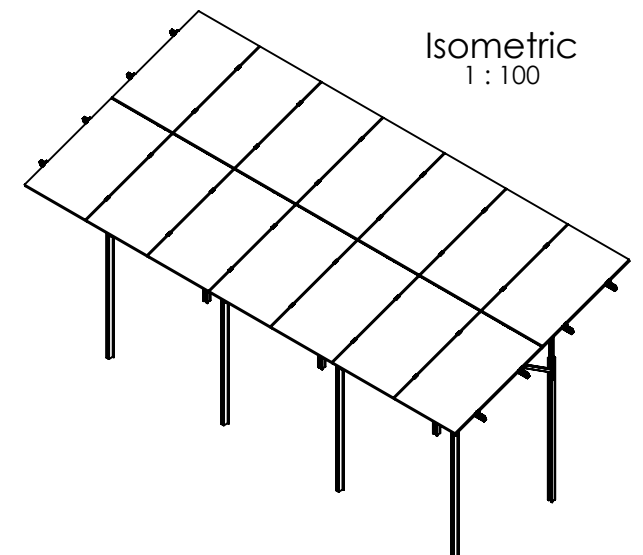
Designation:	Data sheet N-Rack 2.20 Groundscrew 2x12 L		
Item no.:	-		
Drawing no.:	-		
			A3
			All dimensions in mm
			Sheet 1 of 1

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Pile Kit 2x7 S



Acc. to the installation manual,
the clamp position and the modules
have to be installed in a symmetrical
arrangement to the beam length.



12 modules (2x6 Portrait)
for module width >1150-1303 mm

Peak velocity qp[z]: 0.67kN/m²
Ground snow load Sk: 1.75kN/m²



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71272 Renningen
Germany
+49 7159 42059-0

Designation: **Data sheet**
N-Rack 2.20 Pile 2x7 S

	Name	Date	Material:		Item no.: -		A3
Designed	C. Erb	28.01.2026	-				
Approved	L. Kreemke	16.03.2026	Surface: -		Drawing no.: -		All dimensions in mm
Last change			Weight: -	Scale: 1:50			Sheet 1 of 1

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Pos.No.	Designation
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Designation:

Designation: Data sheet
N-Rack 2.20 Pile 2x7 S

	Name	Date	Material:		Item no.:		A3
Designed	C. Erb	28.01.2026	-		-		
Approved	L. Kreemke	16.03.2026	Surface: -		Drawing no.: -		All dimensions in mm
Last change			Weight: -	Scale: 1:50			Sheet 1 of 1
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Pile Kit 2x7 L

Top View: Shows the layout of the pile kit with dimensions: 8300 (total width), 3300 (left section), 5000 (right section), 1038-1150 (module width), 19 (gap), min. 45 (edge distance), 1700 (pile spacing), 750 (pile width), and 4x1700 = 6800 (total pile width). A coordinate system X is indicated.

Side View (View X 1:20): Shows the pile kit installed on a roof with a 20° pitch. Dimensions include: 1864-2028 (total height), 1627 (height to pile top), 1906-2384 (pile length), 3832-4788 (pile length), 20 (pile thickness), 344 (pile height), 357-521 (pile height), 70 (pile width), 60 (pile width), 200 (pile width), and z=2500 (pile height).

Isometric View (1:100): Shows the pile kit installed on a roof with a 20° pitch.

Specifications:

- 14 modules (2x7 Portrait) for module width ≤ 1150 mm
- 12 modules (2x6 Portrait) for module width > 1150-1303 mm
- Peak velocity $q_p[z]$: 0.67kN/m²
- Ground snow load S_k : 1.75kN/m²

Designation: Data sheet N-Rack 2.20 Pile 2x7 L

Company Information: K2 Systems GmbH, Haldenstr. 1, 71272 Renningen, Germany, +49 7159 42059-0

	Name	Date	Material:	Item no.:	A3
Designed	C. Erb	28.01.2026	-	-	
Approved	L. Kreemke	16.03.2026	Surface: -	Drawing no.: -	All dimensions in mm
Last change			Weight: -	Scale: 1:50	Sheet 1 of 1

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Acc. to the installation manual,
the clamp position and the modules
have to be installed in a symmetrical
arrangement to the beam length.

14 modules (2x7 Portrait)
for module width ≤ 1150 mm

12 modules (2x6 Portrait)
for module width >1150-1303 mm

Peak velocity qp[z]: 0.67kN/m²
Ground snow load Sk: 1.75kN/m²

Isometric
1 : 100

View X
1 : 20

3832-4788
20

$$\underline{20^\circ}$$
 $z=2500$ 

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Germany
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Designation:

Data sheet
N-Rack 2.20 Pile 2x7 L

	Name	Date	Material:		Item no.:		A3
Designed	C. Erb	28.01.2026	-		-		
Approved	L. Kreemke	16.03.2026	Surface: -		Drawing no.: -		All dimensions in mm
Last change			Weight: -	Scale: 1:50			Sheet 1 of 1
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Pos.No.	Designation
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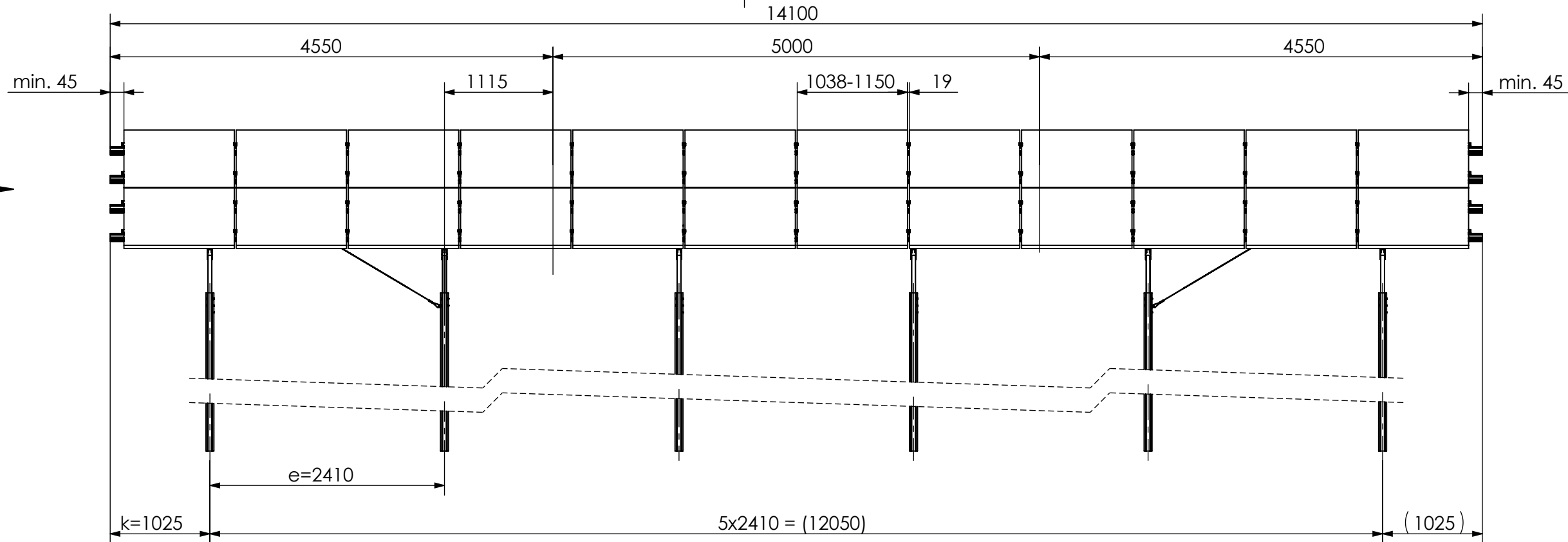
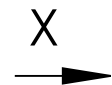


Designation: Data sheet
N-Rack 2.20 Pile 2x7 L

	Name	Date	Material:		Item no.: -		A3
Designed	C. Erb	28.01.2026	-				
Approved	L. Kreemke	16.03.2026	Surface: -		Drawing no.: -		All dimensions in mm
Last change			Weight: -	Scale: 1:50			Sheet 1 of 1

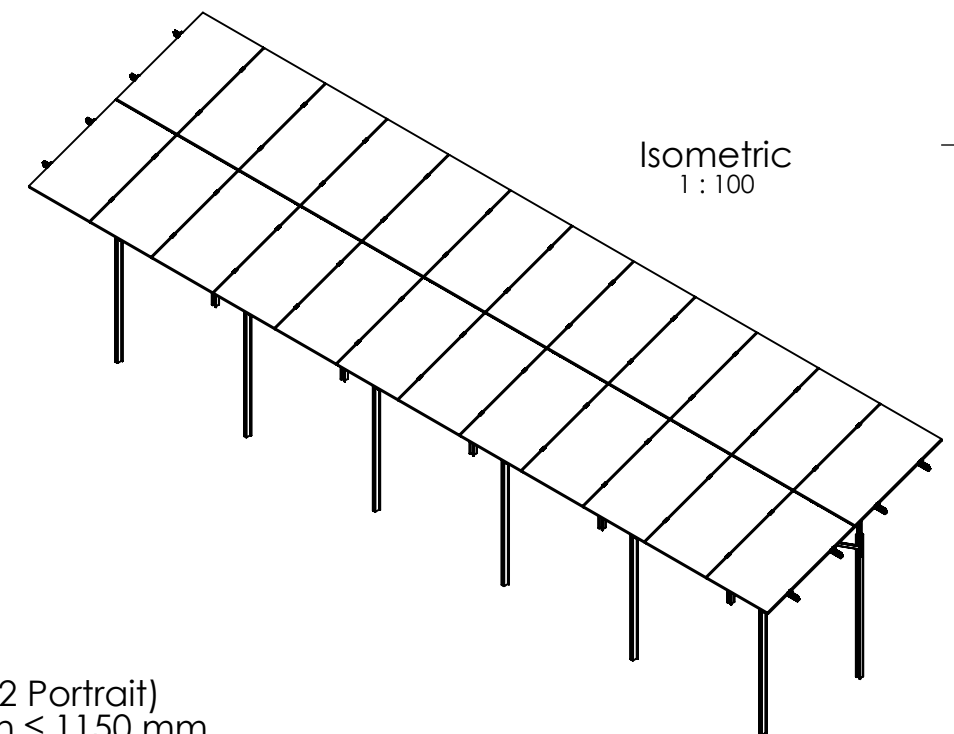
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Pile Kit 2x12 S

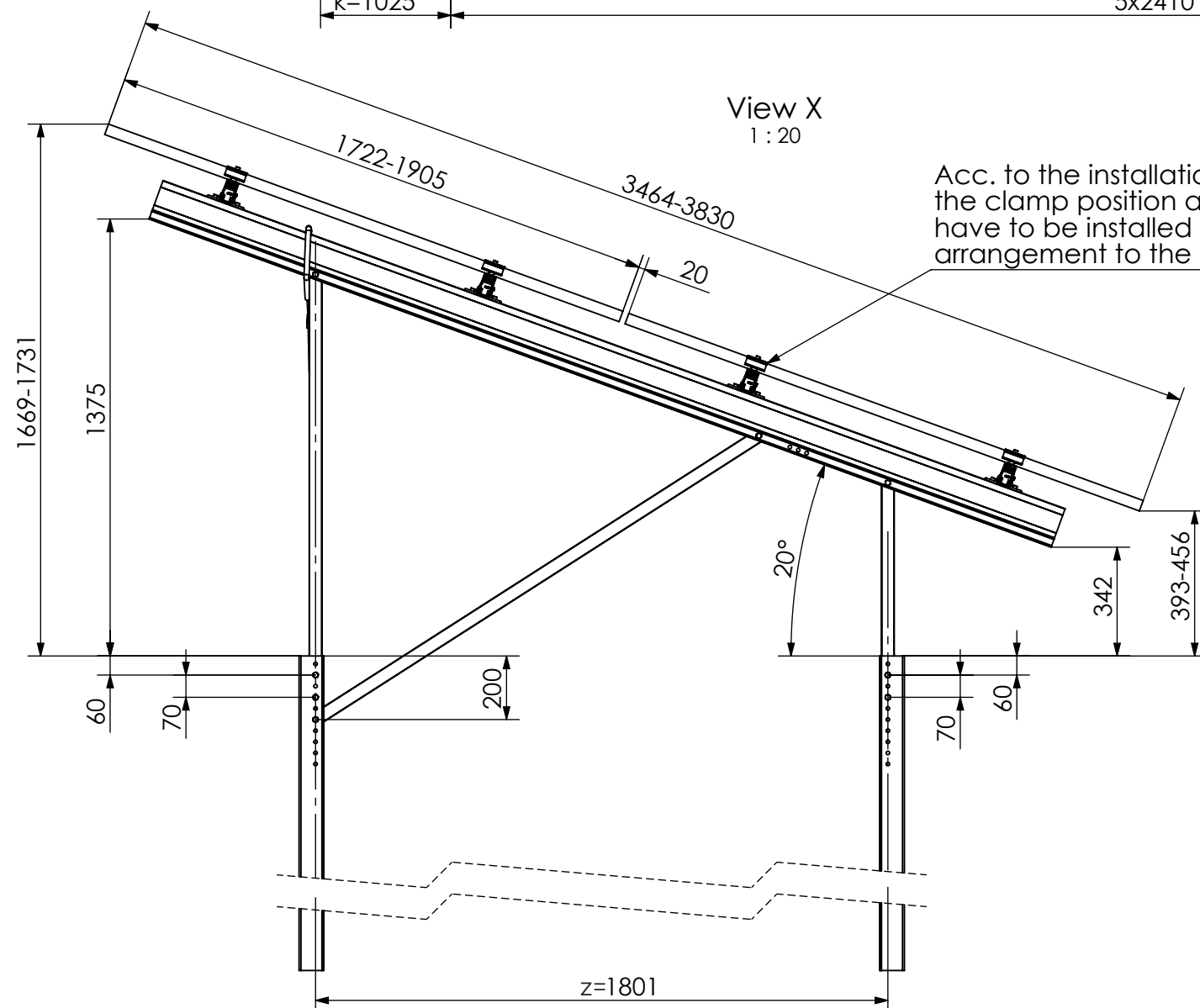


View X
1 : 20

Acc. to the installation manual,
the clamp position and the modules
have to be installed in a symmetrical
arrangement to the beam length.



Isometric
1 : 100



24 modules (2x12 Portrait)
for module width ≤ 1150 mm

20 modules (2x10 Portrait)
for module width > 1150 -1303 mm

Peak velocity $q_p[z]$: 0.67kN/m^2
Ground snow load S_k : 1.75kN/m^2

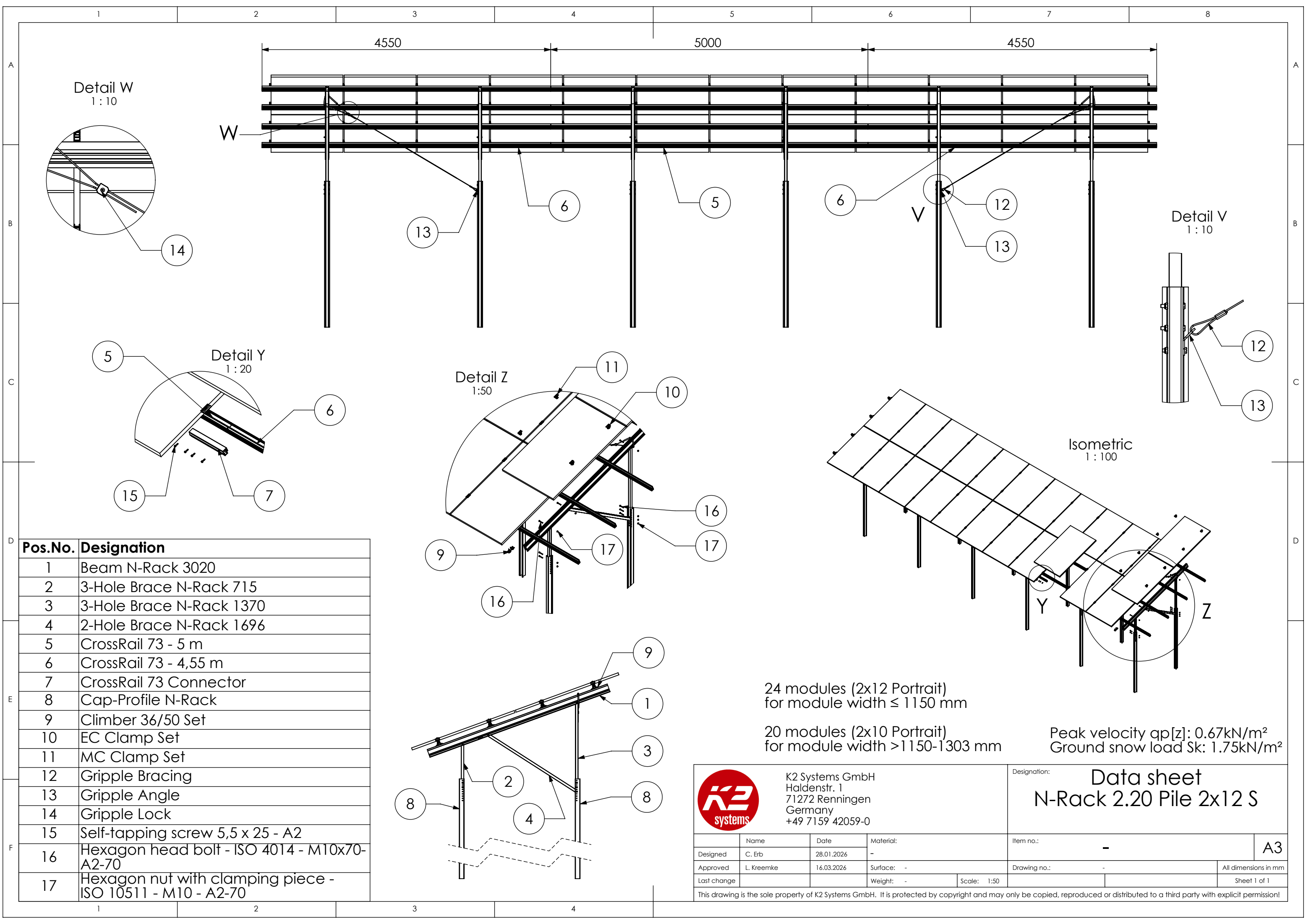


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71272 Renningen
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Designation:
Data sheet
N-Rack 2.20 Pile 2x12 S

	Name	Date	Material:	Item no.:	-	A3
Designed	C. Erb	28.01.2026	-			
Approved	L. Kreemke	16.03.2026	Surface: -	Drawing no.:	-	All dimensions in mm
Last change			Weight: -	Scale: 1:50		Sheet 1 of 1

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Detail W
1 : 10

Detail V
1 : 10

Detail Y
1 : 20

Detail Z
1 : 50

Isometric
1 : 100

Pos.No.	Designation
1	Beam N-Rack 3020
2	3-Hole Brace N-Rack 715
3	3-Hole Brace N-Rack 1370
4	2-Hole Brace N-Rack 1696
5	CrossRail 73 - 5 m
6	CrossRail 73 - 4,55 m
7	CrossRail 73 Connector
8	Cap-Profile N-Rack
9	Climber 36/50 Set
10	EC Clamp Set
11	MC Clamp Set
12	Gripple Bracing
13	Gripple Angle
14	Gripple Lock
15	Self-tapping screw 5,5 x 25 - A2
16	Hexagon head bolt - ISO 4014 - M10x70-A2-70
17	Hexagon nut with clamping piece - ISO 10511 - M10 - A2-70

24 modules (2x12 Portrait)
for module width ≤ 1150 mm

20 modules (2x10 Portrait)
for module width $>1150-1303$ mm

Peak velocity $q_p[z]$: 0.67kN/m^2
Ground snow load S_k : 1.75kN/m^2

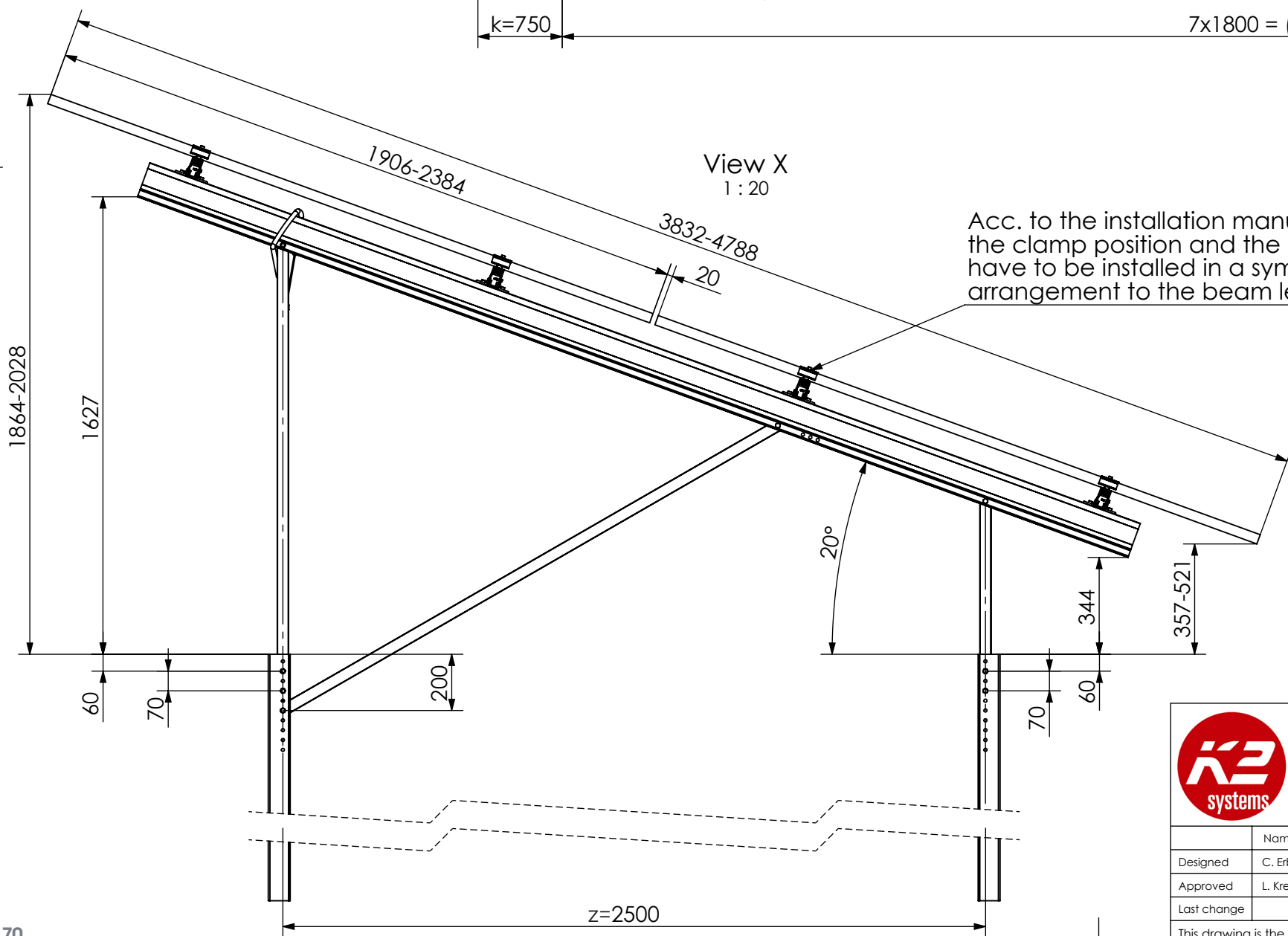
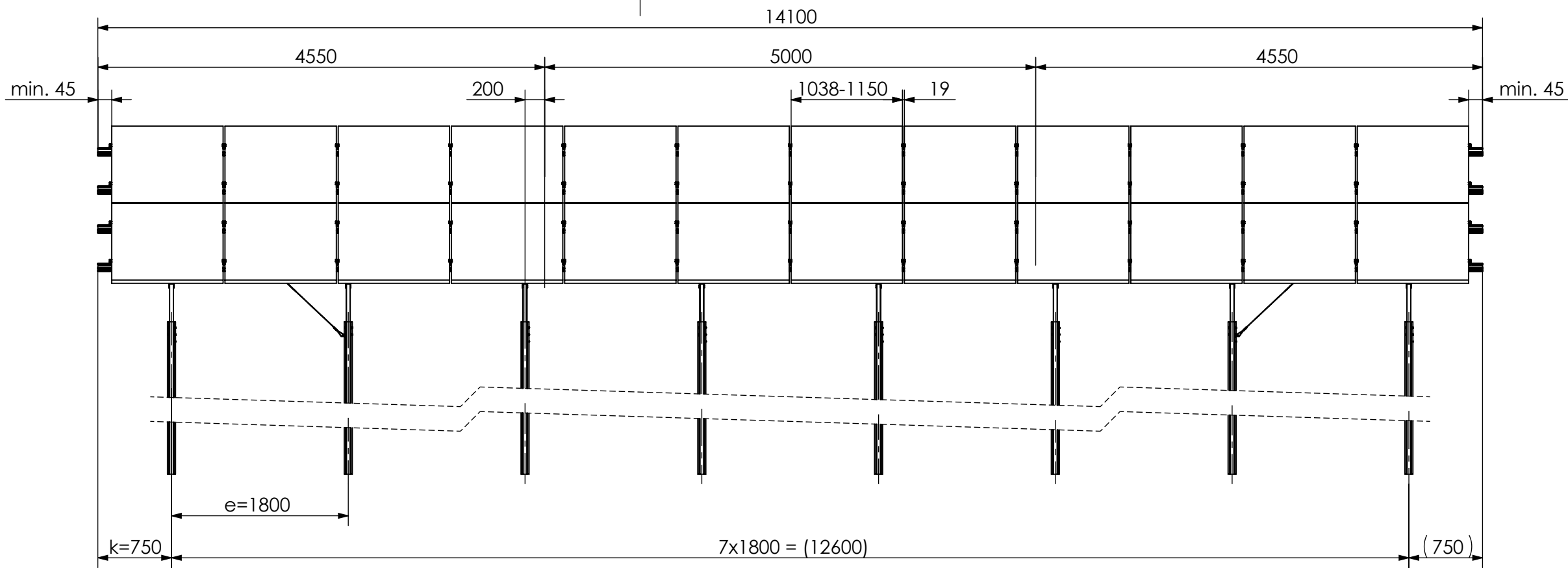


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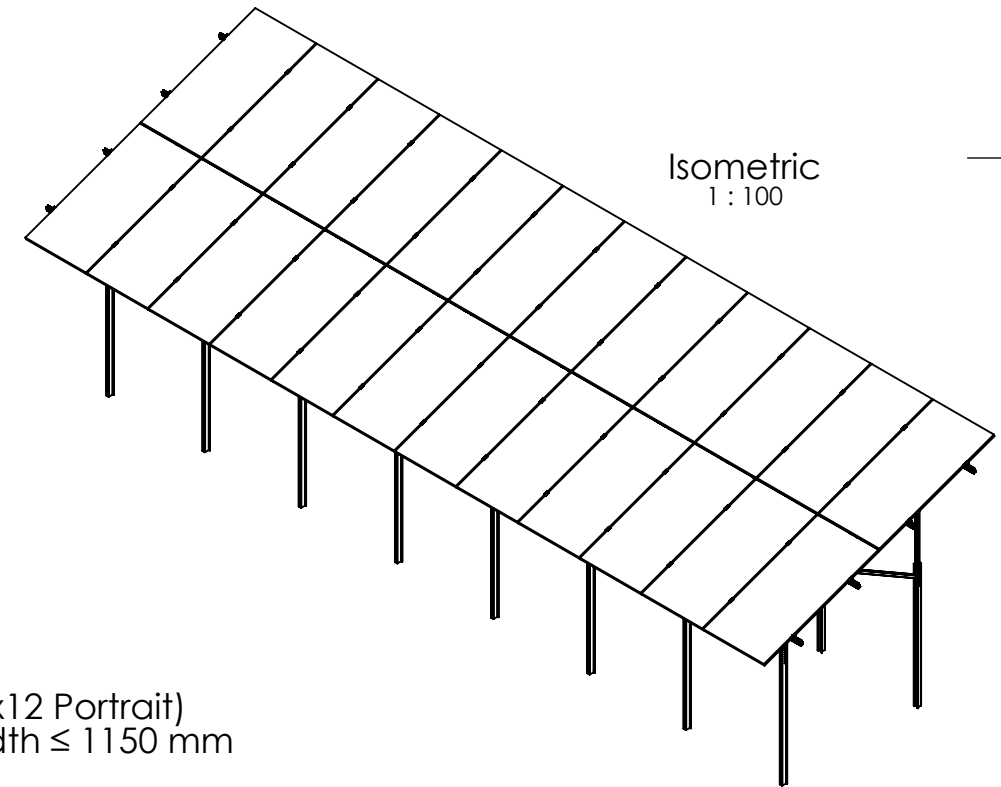
Designation:		Data sheet N-Rack 2.20 Pile 2x12 S	
Item no.:		-	A3
Designed	C. Erb	Date	28.01.2026
Approved	L. Kreemke	Surface:	-
Last change		Weight:	-
Scale:		1:50	
Drawing no.:		-	
All dimensions in mm		Sheet 1 of 1	

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Pile Kit 2x12 L



Acc. to the installation manual, the clamp position and the modules have to be installed in a symmetrical arrangement to the beam length.

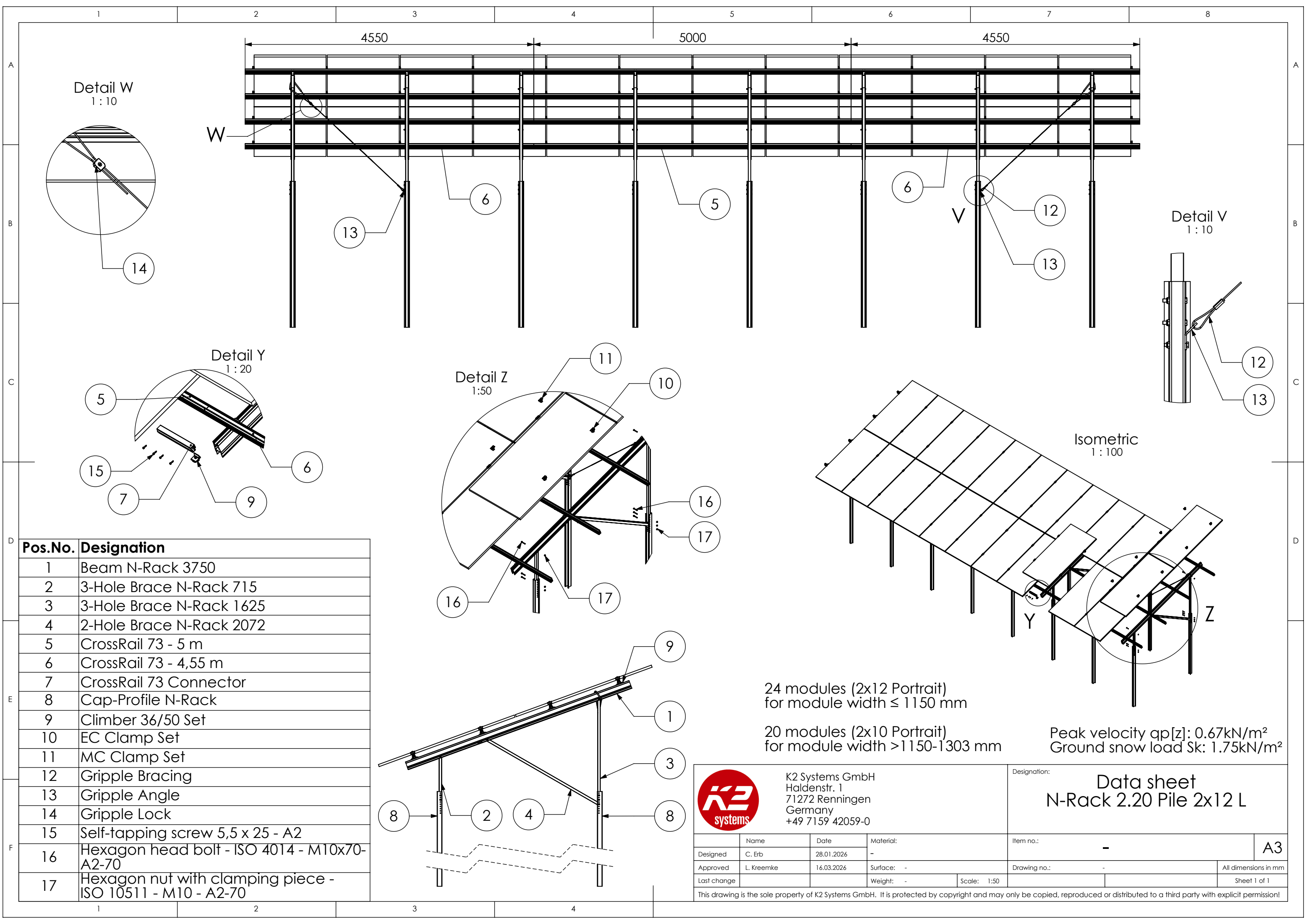


24 modules (2x12 Portrait)
for module width ≤ 1150 mm

20 modules (2x10 Portrait)
for module width >1150-1303 mm

Peak velocity $q_p[z]$: 0.67kN/m²
Ground snow load S_k : 1.75kN/m²

 K2 Systems GmbH Haldenstr. 1 71272 Renningen Germany +49 7159 42059-0				Designation: Data sheet N-Rack 2.20 Pile 2x12 L	
	Name	Date	Material:	Item no.:	A3
Designed	C. Erb	28.01.2026	-	-	
Approved	L. Kreemke	16.03.2026	Surface: -	Drawing no.:	All dimensions in mm
Last change			Weight: -	Scale: 1:50	Sheet 1 of 1
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24 modules (2x12 Portrait)
for module width ≤ 1150 mm

20 modules (2x10 Portrait)
for module width $>1150-1303$ mm

Peak velocity $q_p[z]: 0.67\text{kN/m}^2$
Ground snow load $S_k: 1.75\text{kN/m}^2$



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Designation:		Data sheet	
		N-Rack 2.20 Pile 2x12 L	
Item no.:	-	A3	
Drawing no.:	-	All dimensions in mm	
Sheet 1 of 1			

	Name	Date	Material:	
Designed	C. Erb	28.01.2026	-	
Approved	L. Kreemke	16.03.2026	Surface: -	
Last change			Weight: -	Scale: 1:50

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Connecting Strength

Thank you for choosing a K2 mounting system.

Mounting systems from K2 Systems are quick and easy to install. We hope these instructions have helped. Please contact us with any questions or suggestions for improvement. Our contact data:

- k2-systems.com/en/contact
- **Service Hotline: +49 7159 42059-0**

Our General Terms of Business apply. Please refer: k2-systems.com

K2 Systems GmbH

Haldenstraße 1 · 71272 Renningen · Germany
+49 (0) 7159 - 42059 - 0 · info@k2-systems.com · k2-systems.com

N-Rack Kits Assembly EN V1 | 0926 · Subject to change
Product illustrations are exemplary and may differ from the original.