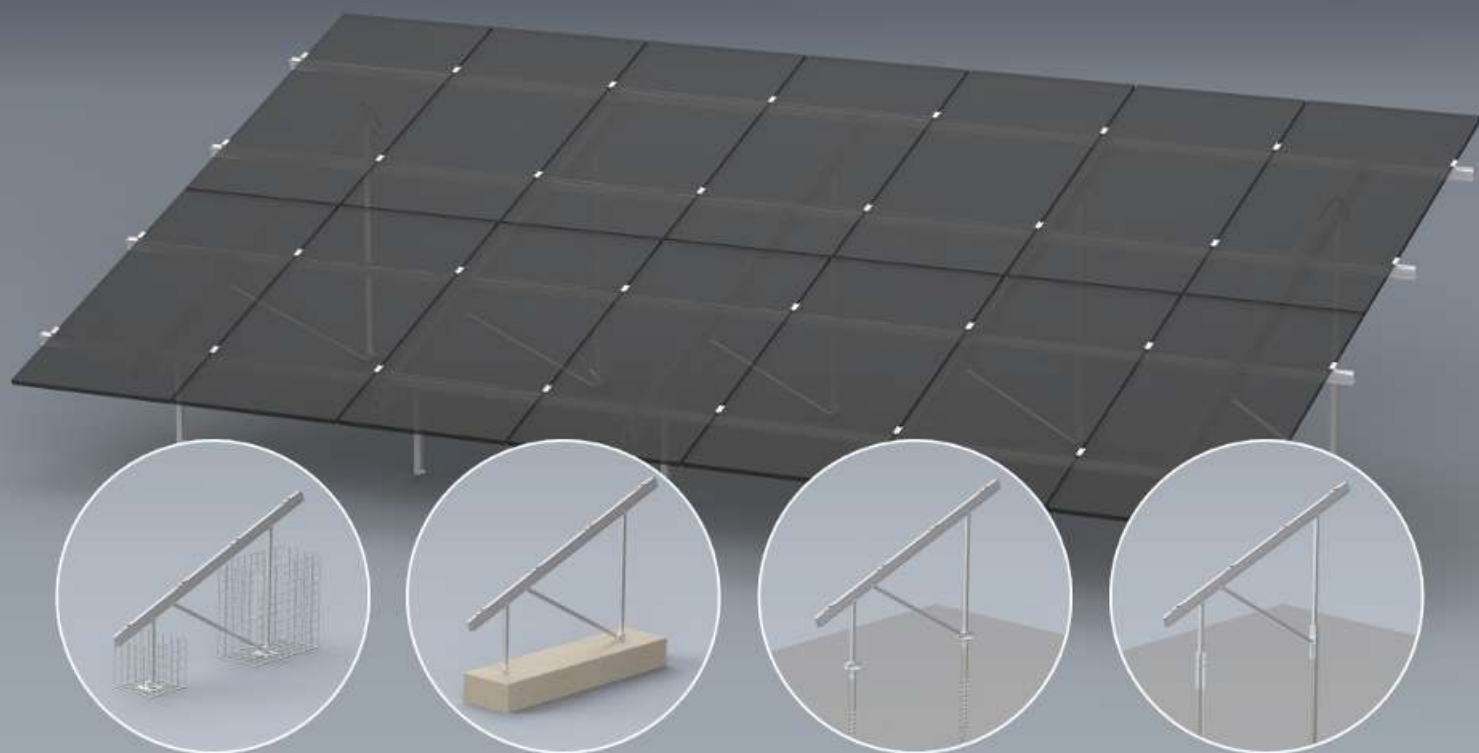




Connecting Strength



Montageanleitung

N-Rack Kit

**Gabionen, Beton-, Schraub-
und Rammfundamente**

Inhalt

Hauptwerkzeuge

Allgemeine Sicherheitshinweise

Generell gilt

- Wichtige Montagehinweise
- Statische Hinweise

Überblick Hauptkomponenten

- N-Rack Top Kits
- N-Rack Ground Kits
 - Gabionen
 - Betonfundamente
 - Schraubfundamente
 - Rammfundamente

Artikelaufstellungen

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

Vormontage Modulstützen

- Komponenten aus N-Rack Top Kit und N-Rack Ground Kit
- Stützen

Gabionen

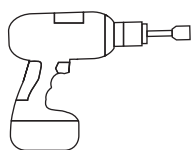
- Generelle Vorgaben
- Zusätzliche Werkzeuge
- Komponenten
- Montage
 - Gabionen vorbereiten
 - Abstände
 - Gabionen setzen
 - Anbindung Stützen
 - Schüttgut einfüllen

Betonfundamente

- Generelle Vorgaben
- Zusätzliche Werkzeuge
- Komponenten
- Montage
 - Abmessungen
 - Abstände
 - Anker Vorbohrungen
 - Anker und Anbindung fixieren
 - Anbindung Stützen

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22	· Pile Kit 2×12 L	70
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24		

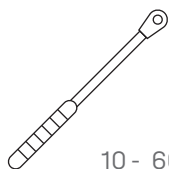
Hauptwerkzeuge



6 mm



8 mm



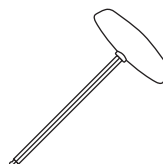
10 - 60 Nm
(7,4 - 44,2 lb-ft)



6 mm



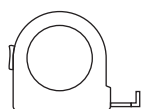
16, 17, 18, 19 mm



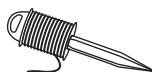
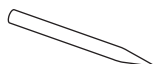
6 mm



16, 17, 18, 19 mm



≥ 3,0 m



Geprüfte Qualität - mehrfach zertifiziert

K2 Systems steht für sichere Verbindung, höchste Qualität und Präzision. Unsere Kunden und Geschäftspartner wissen das schon lange. Unabhängig Stellen haben unsere Kompetenzen und Komponenten geprüft, bestätigt und zertifiziert.

Unter [k2-systems.com](https://www.k2-systems.com) finden Sie unsere Qualitäts und Produkt-zertifikate.

Allgemeine Sicherheitshinweise

Bitte beachten Sie, dass unsere Allgemeinen Montagevorschriften eingehalten werden müssen. Diese sind einzusehen unter [k2-systems.com](https://www.k2-systems.com)

- Anlagen dürfen nur von Personen montiert und in Betrieb genommen werden, die aufgrund ihrer fachlichen Eignung (z.B. Ausbildung oder Tätigkeit) bzw. Erfahrung die vorschriftsmäßige Durchführung gewährleisten können.
- Vor der Montage muss geprüft werden, ob das Produkt den statischen Anforderungen vor Ort entspricht.
- Nationale und ortsspezifische Bauvorschriften, Normen und Umweltschutzbestimmungen sind unbedingt einzuhalten.
- Arbeitsschutz- und Unfallverhütungsvorschriften, entsprechende Normen sowie Vorschriften der Berufsgenossenschaft sind einzuhalten! Insbesondere ist dabei zu beachten:
 - Es ist Sicherheitskleidung zu tragen (v.a. Schutzhelm, Arbeitsschuhe und Handschuhe).
 - Anwesenheit von zwei Personen ist für den gesamten Montageablauf zwingend, um bei einem eventuellen Unfall schnelle Hilfe gewährleisten zu können.
- K2 Montagesysteme werden stetig weiterentwickelt. Montageabläufe können sich dabei ändern. Vor der Montage daher unbedingt den aktuellen Stand der Montageanleitung unter: [k2-systems.com](https://www.k2-systems.com) überprüfen. Auf Anfrage senden wir Ihnen die aktuelle Version auch gerne zu.
- Die Montageanleitungen der Modulhersteller sind zu beachten.
- Der Potentialausgleich zwischen den einzelnen Anlagenteilen ist nach den jeweiligen landesspezifischen Vorschriften durchzuführen.
- Während der gesamten Montagezeit ist sicherzustellen, dass mindestens ein Exemplar der Montageanleitung auf der Baustelle zur Verfügung steht.
- Bei Nichtbeachtung unserer Montagevorschriften und Montageanleitungen und Nichtverwendung aller Systemkomponenten sowie beim Ein- und Ausbau von Bauteilen, die nicht über uns bezogen wurden, übernehmen wir für daraus resultierende Mängel und Schäden keine Haftung. Die Gewährleistung ist in soweit ausgeschlossen.
- Bei Missachtung unserer Allgemeinen Sicherheitshinweise sowie beim Ein- oder Anbau von Bauteilen des Wettbewerbs behält sich die K2 Systems GmbH den Haftungsausschluss vor.
- Wenn alle Sicherheitshinweise beachtet werden und die Anlage sachgemäß installiert wird, besteht ein Produktgarantie-Anspruch von 12 Jahren! Bitte beachten Sie unsere Garantie-Bedingungen, welche einzusehen sind unter [k2-systems.com](https://www.k2-systems.com). Auf Anfrage senden wir Ihnen diese selbstverständlich gerne zu.
- Die Demontage des Systems erfolgt anhand der Montageschritte in umgekehrter Reihenfolge.
- K2 Bauteile aus nichtrostenden Stählen sind in unterschiedlichen Korrosionswiderstandsklassen erhältlich. In jedem Fall ist zu prüfen, welche Korrosionsbelastung für das jeweilige Bauwerk oder Bauteil zu erwarten ist.

Generell gilt



Unter den folgenden Bedingungen kann dieses System standardmäßig verbaut werden. Auch wenn das System durch den Einbezug von Sicherheitsfaktoren höheren Anforderungen gewachsen ist, wenden Sie sich bitte beim Überschreiten der angegebenen Werte zur Prüfung an Ihren Ansprechpartner bei K2 Systems.



Wichtige Montagehinweise

- Bauseits müssen die allgemeinen Normen und Vorschriften für den Blitzschutz beachtet und ggf. eine Fachkraft zur Erstellung eines Blitzschutzkonzeptes (ggf. Blitzschutzklemme verwenden) hinzugezogen werden. Landesspezifische Vorschriften sind hierbei einzuhalten.
- Herstellerangaben zum Klemmbereich der Modulklemmen und zur Montage der Module beachten (siehe Moduldatenblatt des Herstellers).
- Modulrahmenhöhen: 25 - 40 mm



Statische Hinweise

Je nach Fundamentierung der N-Rack Kits gelten andere statische Vorgaben. Diese Hinweise finden sie im jeweiligen Kapitel:

- Gabionen Seite 14
- Betonfundamente Seite 20
- Schraubfundamente Seite 26
- Rammfundamente Seite 30

N-Rack Top Kit	Modulanzahl	Modulgrößen		Zulässige Lasten		Abhebende Auflagerkräfte	Vertikale Auflagerkräfte	Horizontale Auflagerkräfte
		Länge [mm]	Breite [mm]	Böengeschwindigkeitsdruck $q_p(z)$ kN/m ²	Bodenschneelast s_k 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

Auch Module mit Rahmenbreite bis zu 1.303 mm lassen sich integrieren. In diesem Fall wird das Layout wie folgt angepasst:

- 2 × 6 Module anstelle von 2 × 7
- 2 × 10 Module anstelle von 2 × 12

Überblick Hauptkomponenten

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

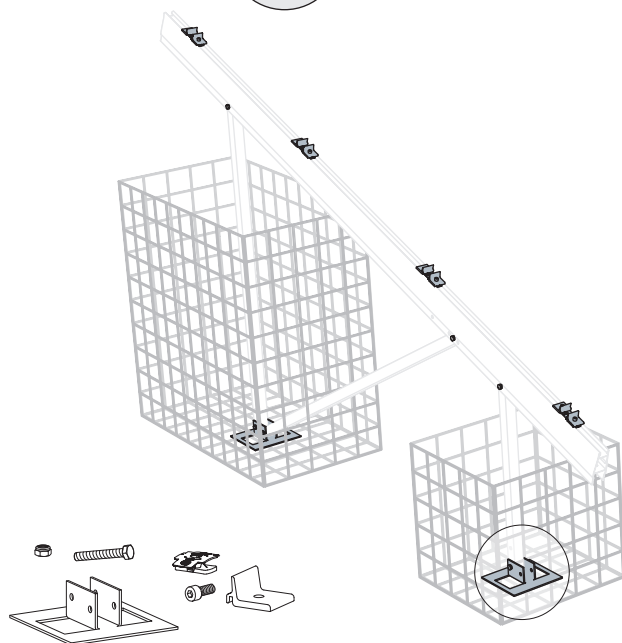
2005047

N-Rack Top Kit 2×12 L

Inhalt N-Rack Top Kits siehe Seite 8 und 9!

N-Rack Ground Kits

Gabionen



2005110

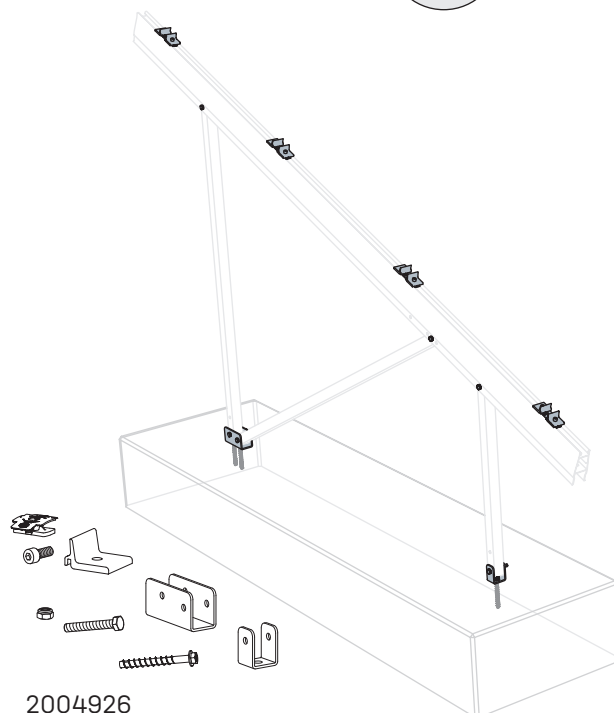
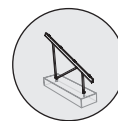
N-Rack Ground Kit Gabion

Inhalt siehe Seite 10!

Montage siehe Seite 14!

Bezug Gabionen über K2 Händler oder
bauseitige Alternative.

Betonfundamente



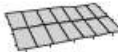
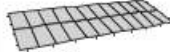
2004926

N-Rack Ground Kit Concrete

Inhalt siehe Seite 10!

Montage siehe Seite 20!

Fundamente sind bauseits herzustellen.

N-Rack Ground Kit		N-Rack Top Kit			
		2×7		2×12	
Modüllängen		S	L	S	L
S: 1.722 - 1.905 mm					
L: 1.906 - 2.384 mm		1×	1×	1×	1×
Modulbreiten		2004925	2004924	2005048	2005047
S/L: ≤1.150 mm					
Fundamenttyp	Artikel Nr.	Benötigte Anzahl N-Rack Ground Kits je N-Rack Top Kit			
Gabionen	2005110	4×	5×	6×	8×
Betonfundamente	2004926				
Drehfundamente	2004927				
Rammfundamente	2005113				

Schraubfundamente



2004927

N-Rack Ground Kit Groundscrew

Inhalt siehe Seite 11!

Montage siehe Seite 26!

Bezug Schraubfundamente über
K2 Händler oder bauseitige Alternative.

Rammfundamente



2005113

N-Rack Ground Kit Pile

Inhalt siehe Seite 11!

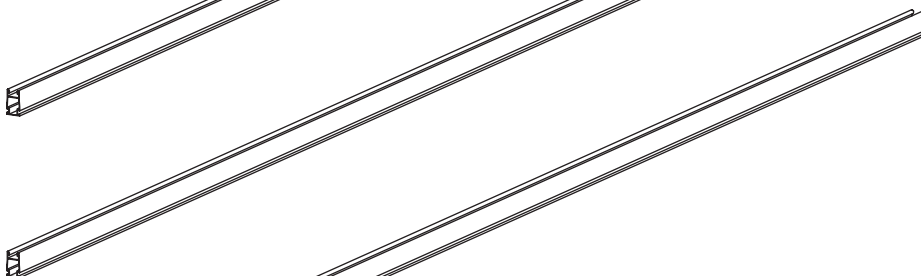
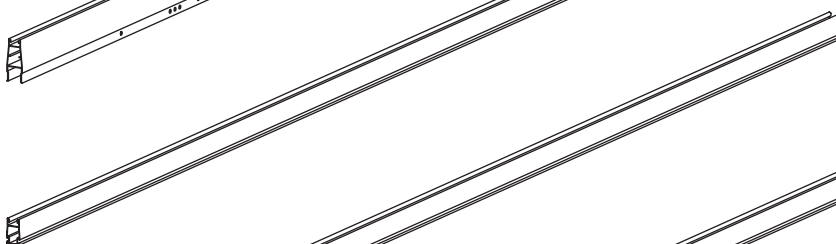
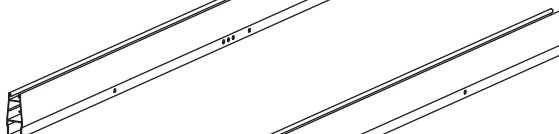
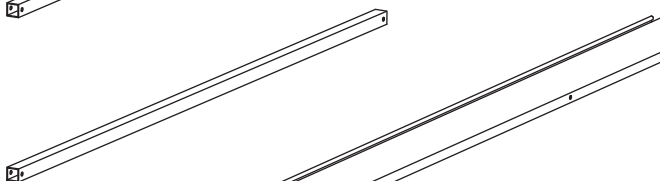
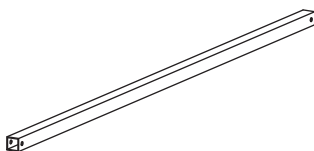
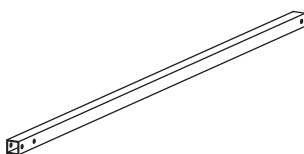
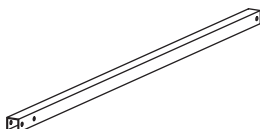
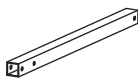
Montage siehe Seite 30!

Rammfundamente sind enthalten

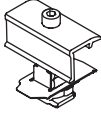
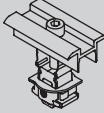
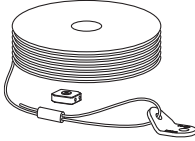
Artikelaufstellungen

N-Rack Top Kits

Artikelmenge				Artikel
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

Artikelmenge				Artikel	
2×7		2×12			
S	L	S	L		
4×	4×	8×	8×	2004409 CrossRail 73 Connector	
20×	20×	40×	40×	1001051 Bohrschraube 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 Windverband Set	

N-Rack Ground Kits

Gabion



Ein **N-Rack Ground Kit Gabion 2005110** enthält folgende Artikel:

Artikel-menge	Artikel	
2×	2005109 N-Rack Gabion Foot	
7×	2004408 Sechskant-schraube M10 × 70	
7×	1002849 Sechskant Sicherungs-mutter M10	
8×	2003145 Climber 36/50 Set	

Concrete



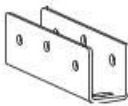
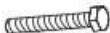
Ein **N-Rack Ground Kit Concrete 2004926** enthält folgende Artikel:

Artikel-menge	Artikel	
1×	2004391 N-Rack Foot Front	
1×	2004392 N-Rack Foot Back	
3×	2004407 Heco Multi-Monti 12 × 105	
7×	2004408 Sechskant-schraube M10 × 70	
7×	1002849 Sechskant Sicherungs-mutter M10	
8×	2003145 Climber 36/50 Set	

Groundscrew



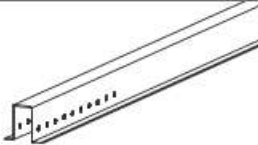
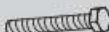
Ein **N-Rack Ground Kit Groundscrew 2004927** enthält folgende Artikel:

Artikel-menge	Artikel	
2×	2004896 N-Rack GS Foot	
4×	2004902 Sechskant- schraube M12 × 35	
4×	2004910 Unterleg- scheibe M12	
4×	2004903 Sechskant- mutter M12	
9×	2004408 Sechskant- schraube M10 × 70	
9×	1002849 Sechskant Sicherungs- mutter M10	
8×	82003145 Climber 36/50 Set	

Pile

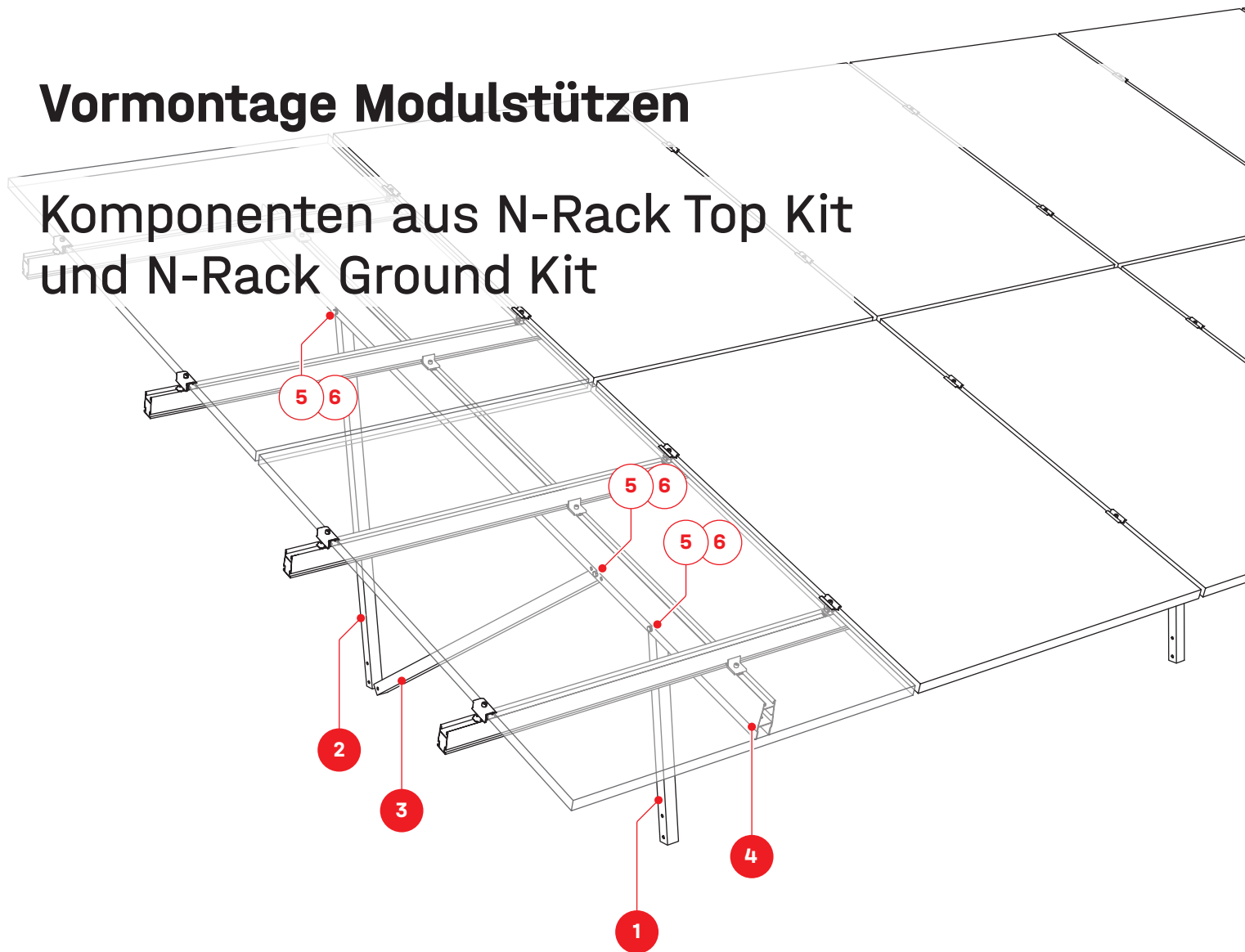


Ein **N-Rack Ground Kit Pile 2005113** enthält folgende Artikel:

Artikel-menge	Artikel	
2×	2005112 Cap-Profile N-Rack 2,3 m	
7×	2004408 Sechskant- schraube M10 × 70	
7×	1002849 Sechskant Sicherungs- mutter M10	
8×	2003145 Climber 36/50 Set	

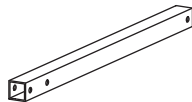
Vormontage Modulstützen

Komponenten aus N-Rack Top Kit und N-Rack Ground Kit

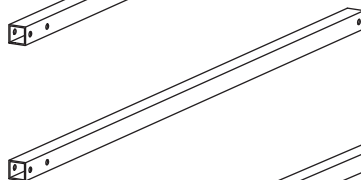


N-Rack Top Kit

1 3-Loch Brace N-Rack



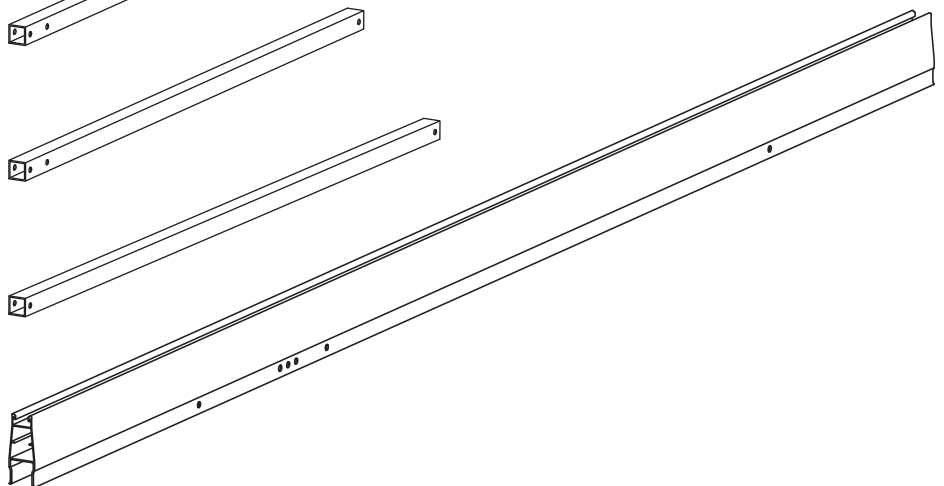
2 3-Loch Brace N-Rack



3 2-Loch Brace N-Rack



4 Beam N-Rack



N-Rack Ground Kit

5 Sechskantschraube mit Schaft M10 x 70



6 Sechskant Sicherungsmutter M10

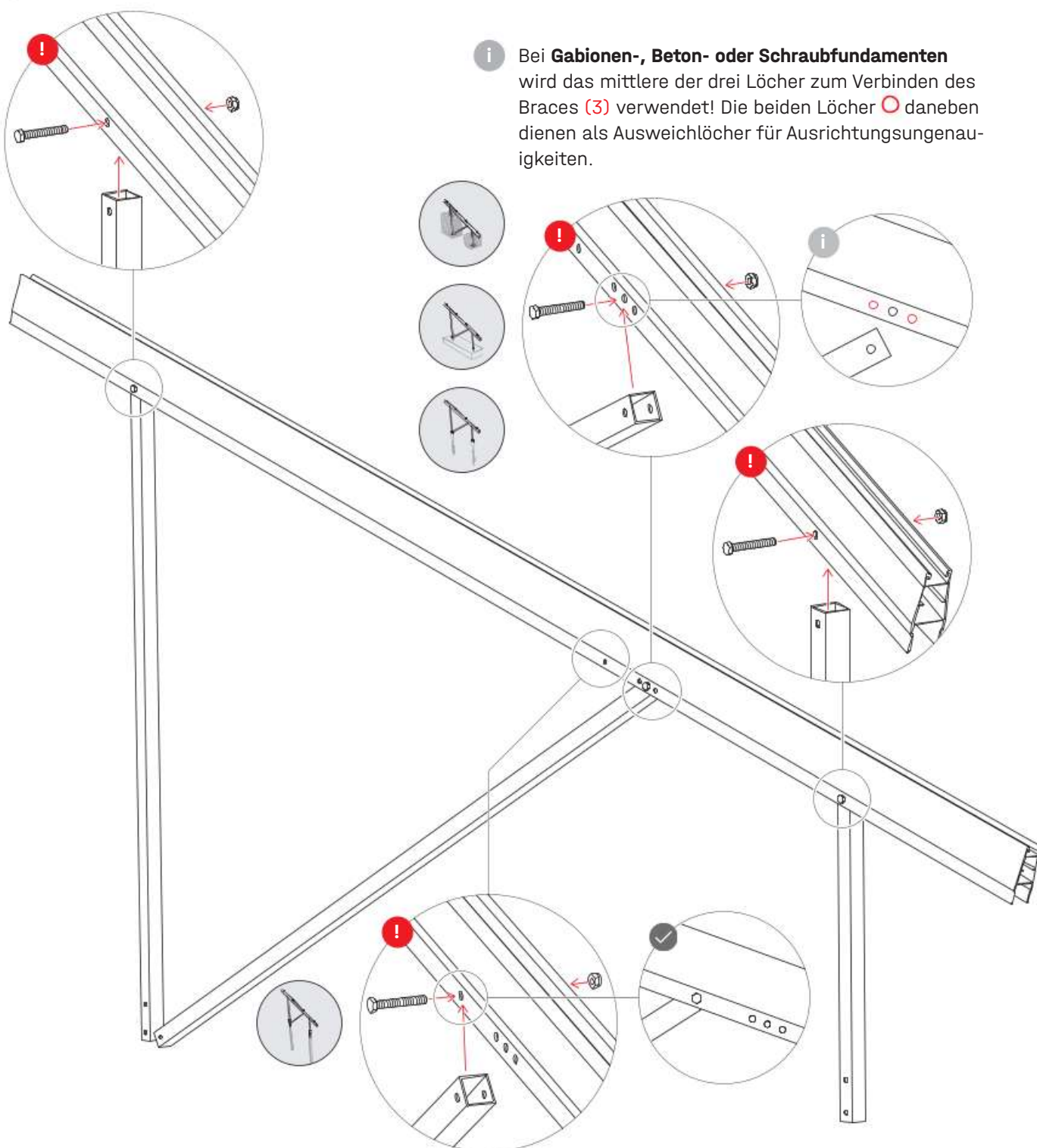


Stützen

1

! Schrauben nur handfest anziehen.

i Bei **Gabionen-, Beton- oder Schraubfundamenten** wird das mittlere der drei Löcher zum Verbinden des Braces (3) verwendet! Die beiden Löcher O daneben dienen als Ausweidlöcher für Ausrichtungsungenauigkeiten.



Für **Rammprofile** muss der Brace (3) mit dem einzelnen Loch verbunden werden!



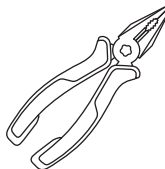
Generelle Vorgaben

Zusätzliche Werkzeuge

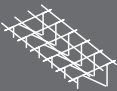


Bodenanforderungen

Der Untergrund ist so zu verdichten und vorzubereiten, dass er eine setzungsarme und tragfähige Basis gemäß den anerkannten Regeln der Technik (insb. DIN EN 1997-1-Eurocode7-Geotechnik) bildet, um die dauerhafte Lagesicherheit des Bauwerks zu garantieren.



Statische Anforderungen

N-Rack Top Kit	Modul-anzahl	Füllgewicht	
		 [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

Wichtige Hinweise

Es sind Gabionen mit einer Maschenweite von 100 mm zu verwenden.

Gabionen sollten mit frost- und witterungsbeständigem, ausreichend druckfestem Steinmaterial hohlraumarm befüllt werden.

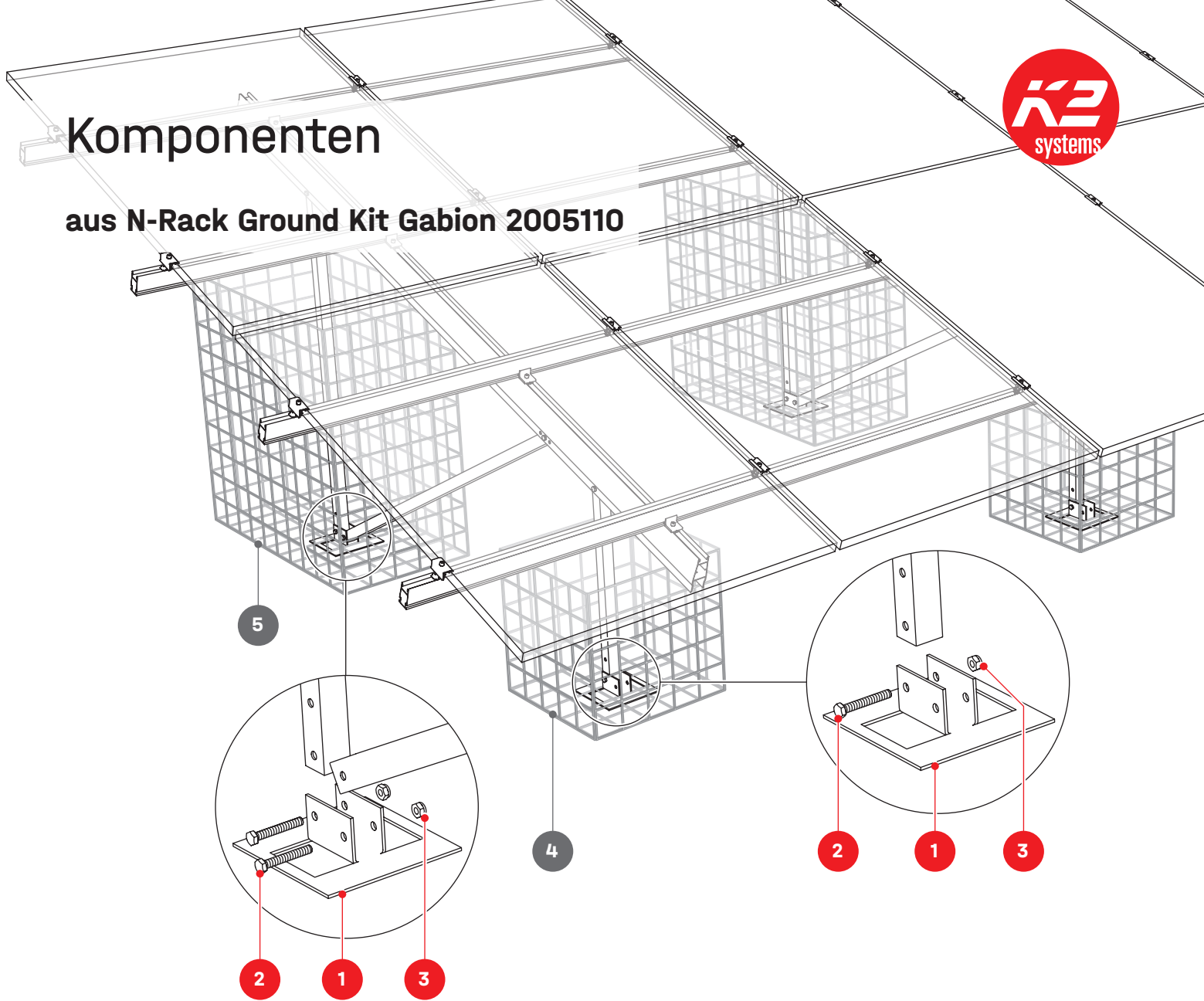
Das Schüttgut an der Luftseite muss größer als die Maschenweite sein.

Die Angaben des Gabionen Herstellers sind zu beachten.

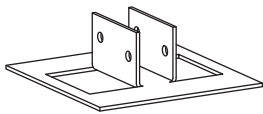
Die Montageanleitung für die Gabionen Art. Nr. 2005184 Gabion 50×50×50 und Art. Nr. 2005185 Gabion 100×50×100 ist hier abrufbar: www.rothfuss-bestgabion.de/wp-content/uploads/2025/02/Montageanleitung-ROKO-DE.pdf

Komponenten

aus N-Rack Ground Kit Gabion 2005110



N-Rack Ground Kit Gabion

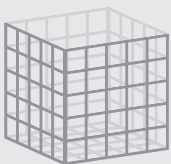


1 2005109
N-Rack Gabion Foot

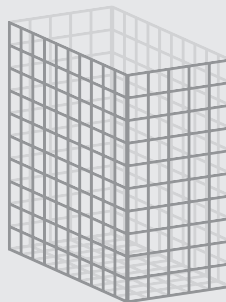
2 2004408
Sechskantschraube
mit Schaft M10 x 70

3 1002849
Sechskant Sicherungs-
mutter M10

Erforderlich - nicht im Lieferumfang



4 2005184
Gabion 50x50x50
oder bauseitige Alternative



5 2005185
Gabion 100x50x100
oder bauseitige Alternative

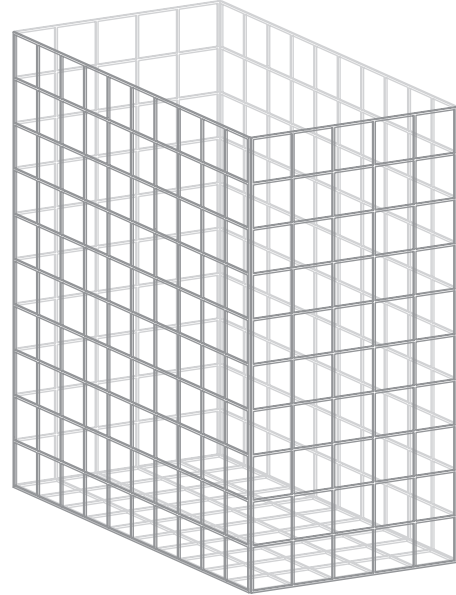
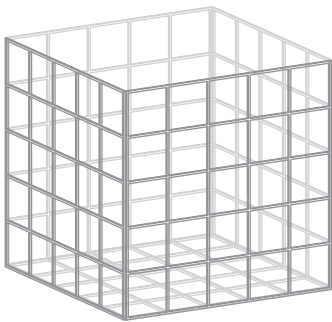
Montage

Gabionen vorbereiten

1a

Beim Aufbau der Gabionen die Montageanleitung des Herstellers beachten.

Die Montageanleitung für die Gabionen Art. Nr. 2005184 Gabion 50×50×50 und Art. Nr. 2005185 Gabion 100×50×100 ist hier abrufbar: [Montageanleitung.pdf](#)

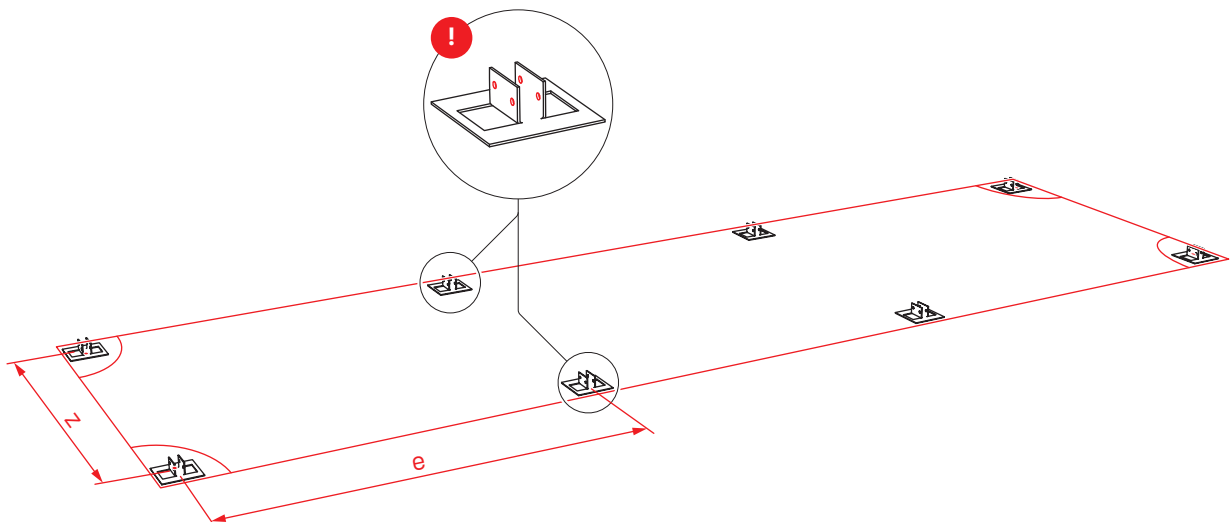


Damit der Einbau der Stütze einfacher ist, sollte das hintere Seitengitter noch geöffnet bleiben.

Abstände

1b

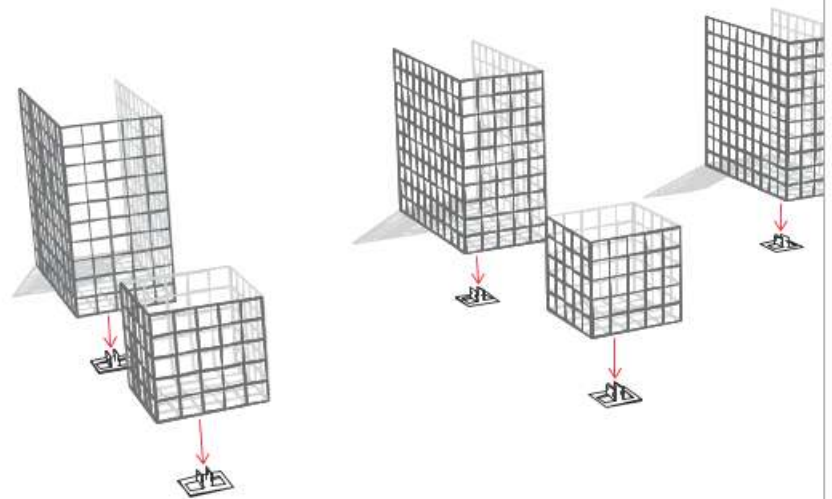
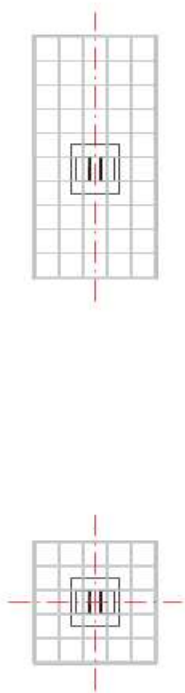
Werte **e** und **z** in den Systemdatenblätter „Gabionen“ ab Seite 40.



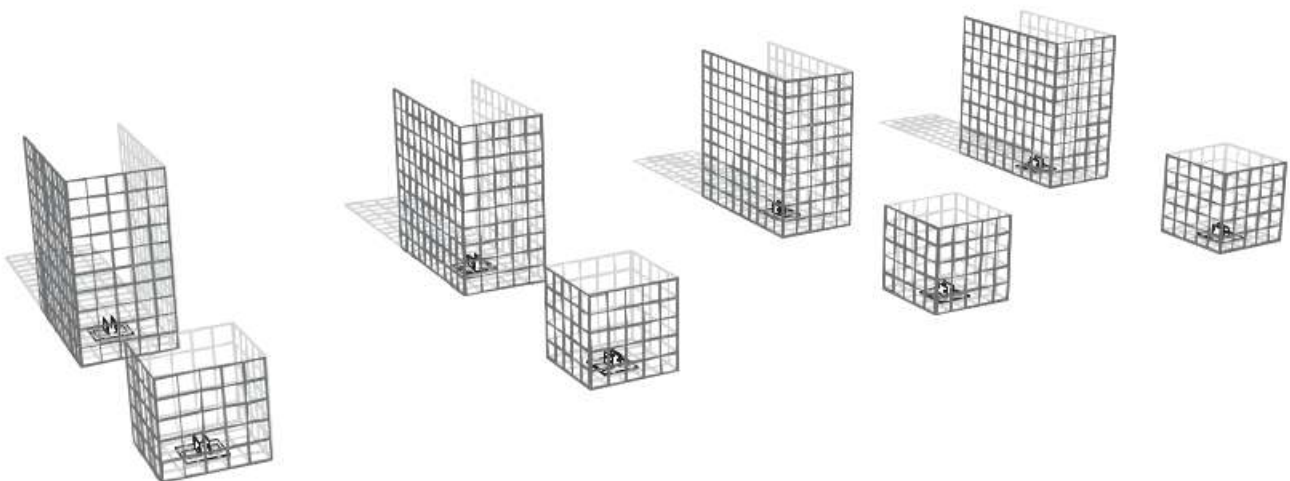
! Ausrichtung N-Rack Gabion Foot beachten

Gabionen setzen

2a

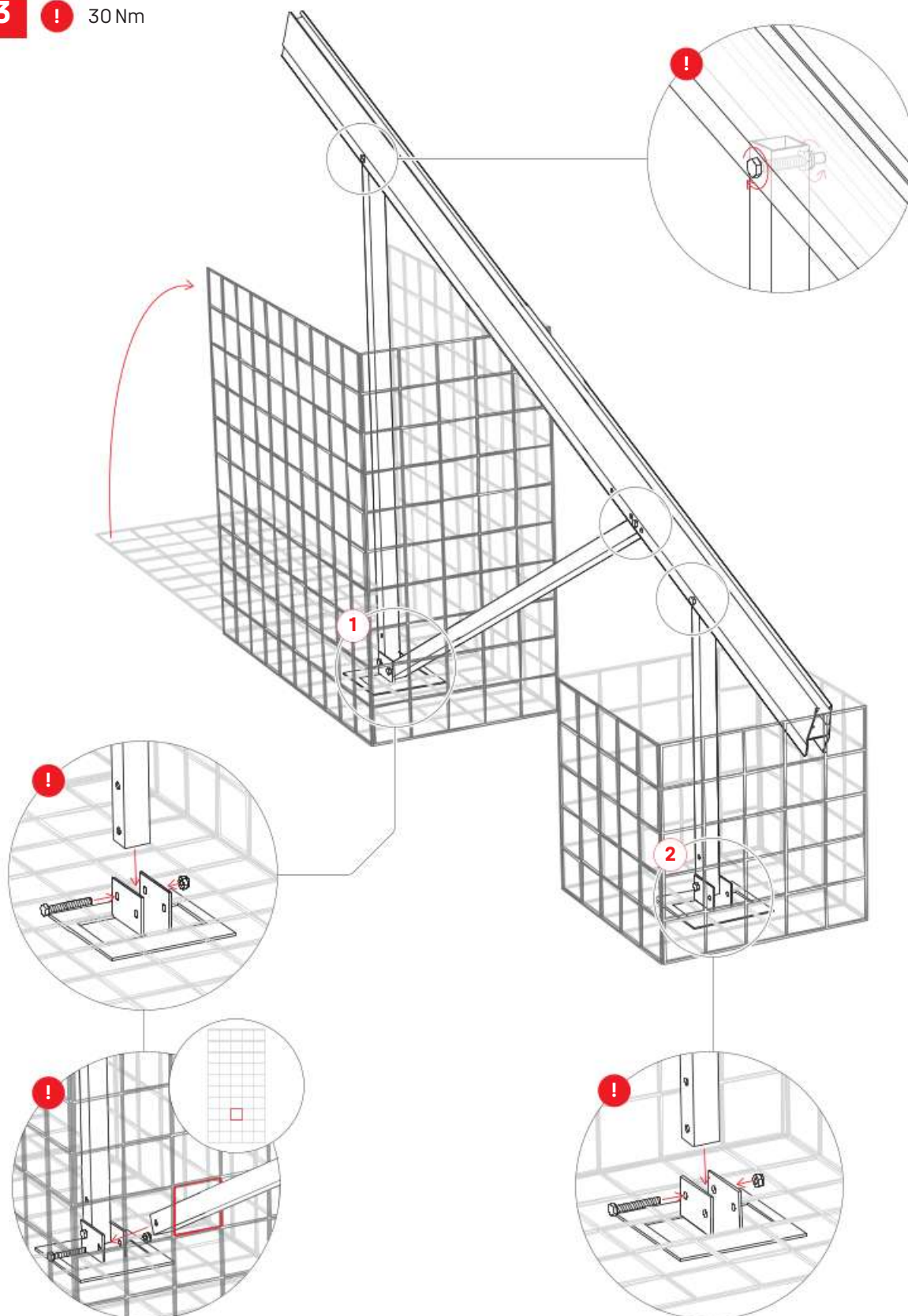


2b



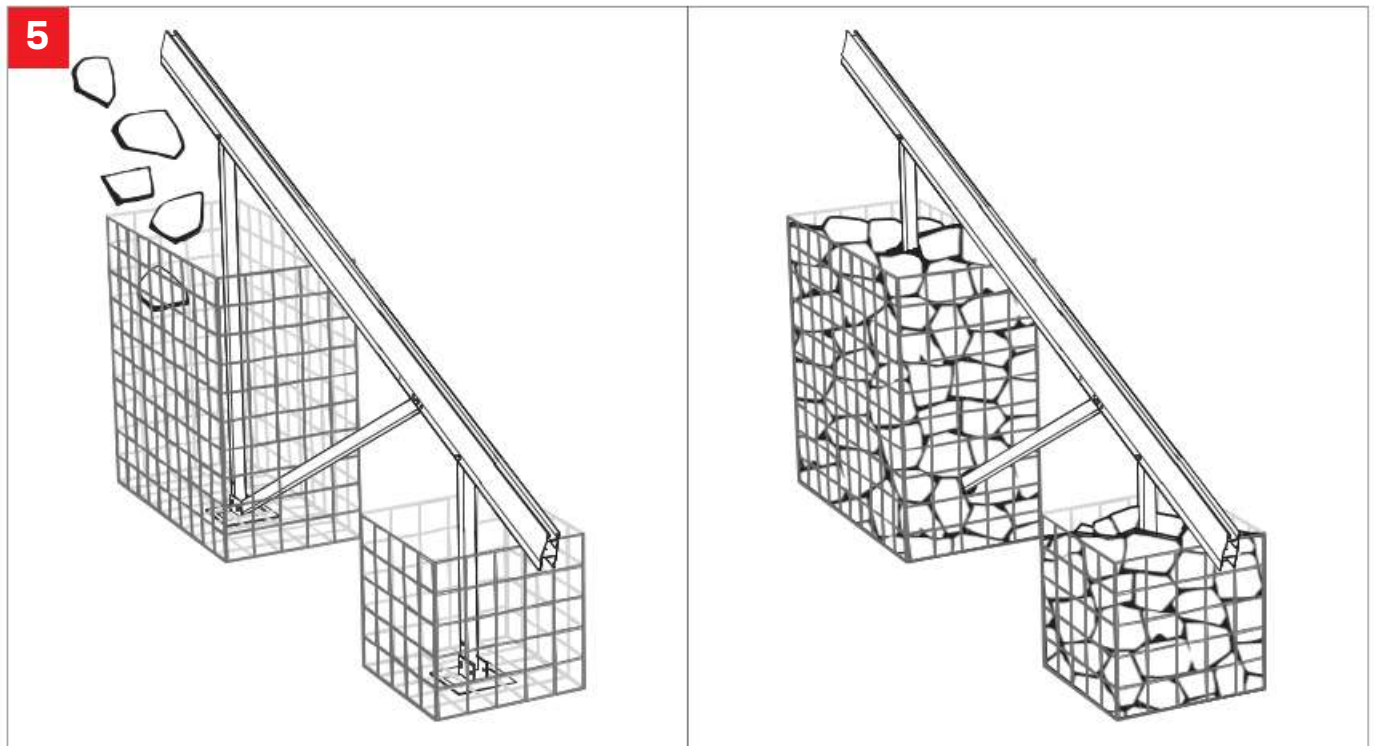
Anbindung Stützen

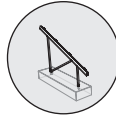
3 ! 30 Nm



Für das N-Rack Kit mit Gabionen ist kein Windverband erforderlich.

Schüttgut einfüllen





Generelle Vorgaben



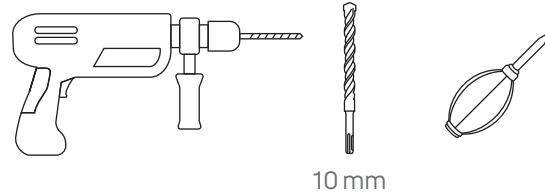
Bodenanforderungen

Der Untergrund ist so zu verdichten und vorzubereiten, dass er eine setzungsarme und tragfähige Basis gemäß den anerkannten Regeln der Technik (insb. DIN EN 1997-1-Eurocode7-Geotechnik) bildet, um die dauerhafte Lagesicherheit des Bauwerks zu garantieren.

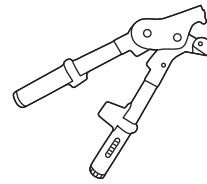
Statische Anforderungen

Die Betonfundamente sind gegen Abheben und Kippen infolge der Windsoglasten vordimensioniert. Eine Bewehrung des Fundamentes ist vorzusehen, wie in der Prinzipskizze „Abmessungen“ auf Seite 22 dargestellt. Die Bestimmung der endgültigen Dimension der Betonfundamente sowie deren Bewehrungsplan ist bauseits zu überprüfen.

Zusätzliche Werkzeuge



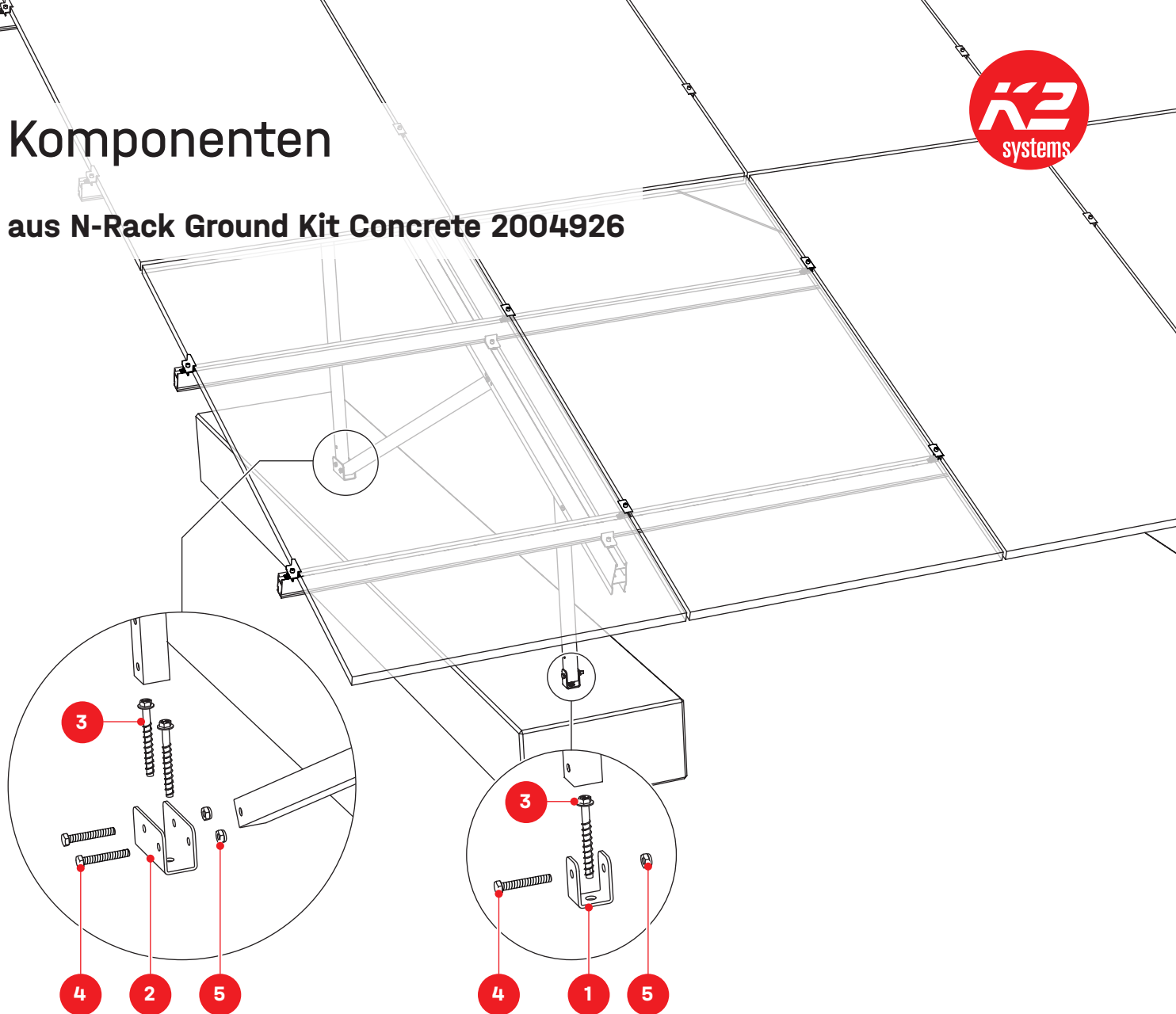
10 mm



Gripple Spannzange 400 · 2004456

Komponenten

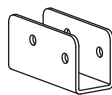
aus N-Rack Ground Kit Concrete 2004926



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
Sechskantschraube
mit Schaft M10 × 70



5 1002849
Sechskant Sicherungs-
mutter M10

Montage

Abmessungen

i

Die Betonfundamente müssen bauseits beschafft bzw. selbst erstellt werden.

Betonstahl:

Betonfestigkeit:

Betondeckung der Bewehrung:

B500

min. C25/30

$c_M/c_S \geq 0,04\text{ m}$

N-Rack	2×7 S	2×7 L	2×12 S	2×12 L
L [m]	2,80	3,40	2,80	3,40
b [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
Anzahl der Bügel	10 ×	12 ×	10 ×	12 ×

Abstände

1

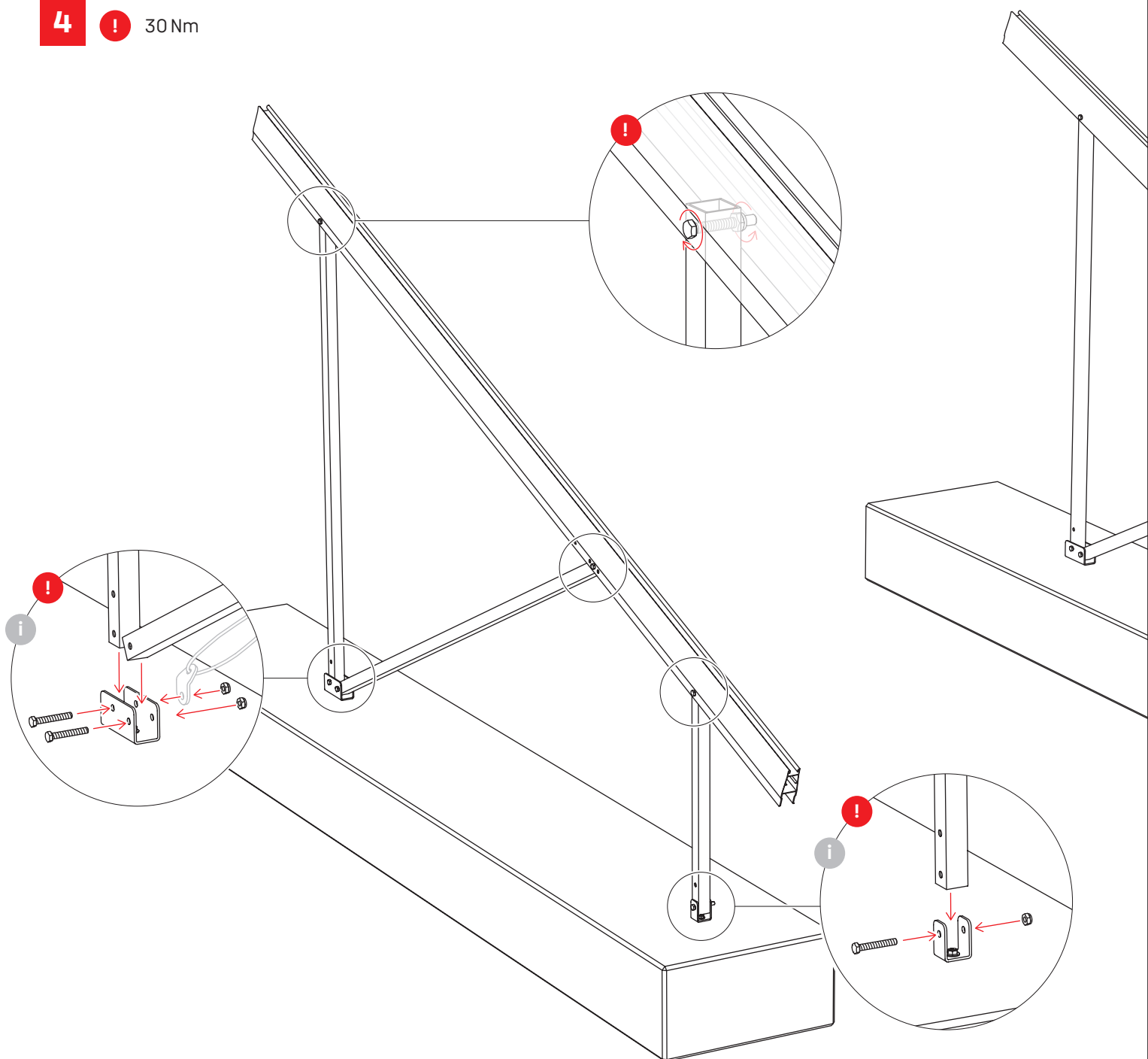
Werte e und z in den Systemdatenblätter „Betonfundamente“ ab Seite 48.

Anbindung Stützen

4

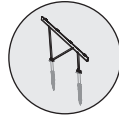


30 Nm



- i** Anbringung des Windverbandes an den äußeren Betonfundamenten.
„Herstellung Windverband“ auf Seite 38.

Schraubfundamente



Generelle Vorgaben



Baugrundannahme

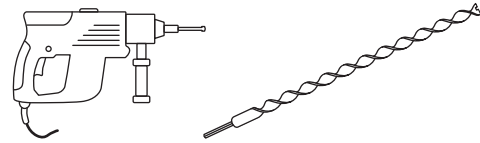
Die Anzahl und die erforderliche Grösse der jeweiligen Schraubfundamente ist immer abhängig von der Bodenart, Grösse, Gewicht sowie Wind und Schnee-lasten der geplanten Aufbauten. Es wird ausgegangen von Bodenklasse TL/TM gemäss DIN 18196, Konsistenz halbfest (DIN 1422). Grundlage der endgültigen Fundamentbemessung ist die Vorort zu ermittelnde Bodenbeschaffenheit sowie der statische Nachweis der Tragfähigkeit, basierend auf ein zutreffendes statisches Berechnungsmodell.



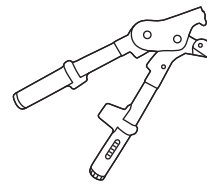
Statische Anforderungen

- Anforderungen Kits
 - 1,2 – 1,25 m Eindrehtiefe Schraubfundamente Krinner M16 bis $\leq 1,75$ kN Schnee und $\leq 0,67$ kN Wind

Zusätzliche Werkzeuge



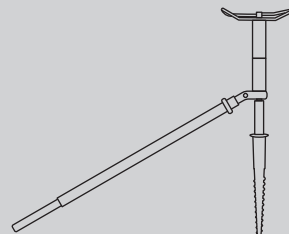
Bohrhammer inkl. Bohrer 25 mm



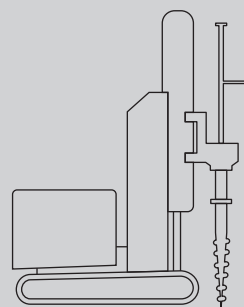
Gripple Spannzange 400 · 2004456



Geräte/Maschinen zum Eindrehen der Schraubfundamente sind beim Baugeräteverleih erhältlich. Alternativ kann auch der Garten- und Landschaftsbau beauftragt werden.



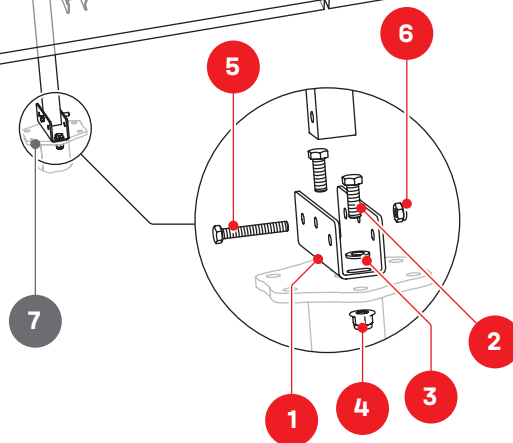
Eindrehmaschine z.B.: Krinner KR E 20-SC



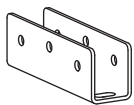
Selbstfahrendes Raupenfahrzeug z.B.: Krinner KR D 30-CO

Komponenten

aus N-Rack Ground Kit Groundscrew 2004927



N-Rack Ground Kit Groundscrew



1 2004896
N-Rack GS Foot



2 2004902
Sechskantschraube
M12 × 35



3 2004910
Unterlegscheibe
M12



4 2004903
Sechskantmutter mit
Flansch M12

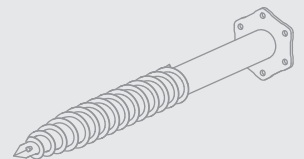


5 2004408
Sechskantschraube
mit Schaft M10 × 70



6 1002849
Sechskant Siche-
rungsmutter M10

**Erforderlich - nicht
im Lieferumfang**



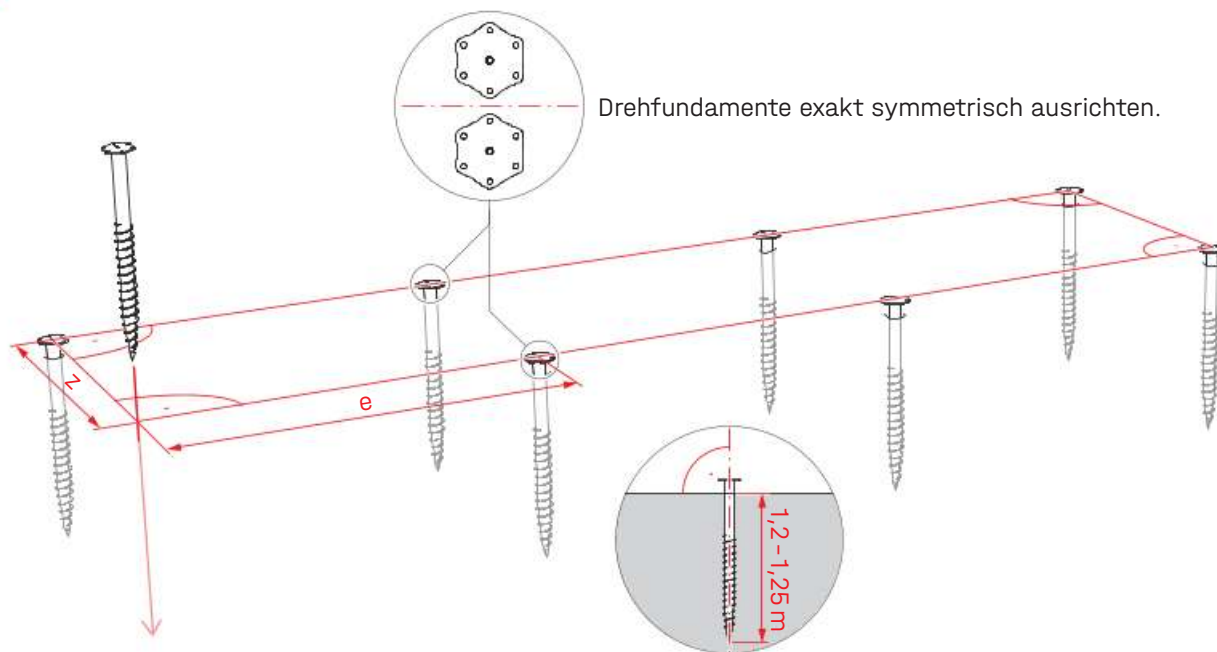
7 2005095
Schraubfundament 1,30 m
KSF M76 1300 M16
oder bauseitige Alternative

Montage

Gründung und Abstände

1

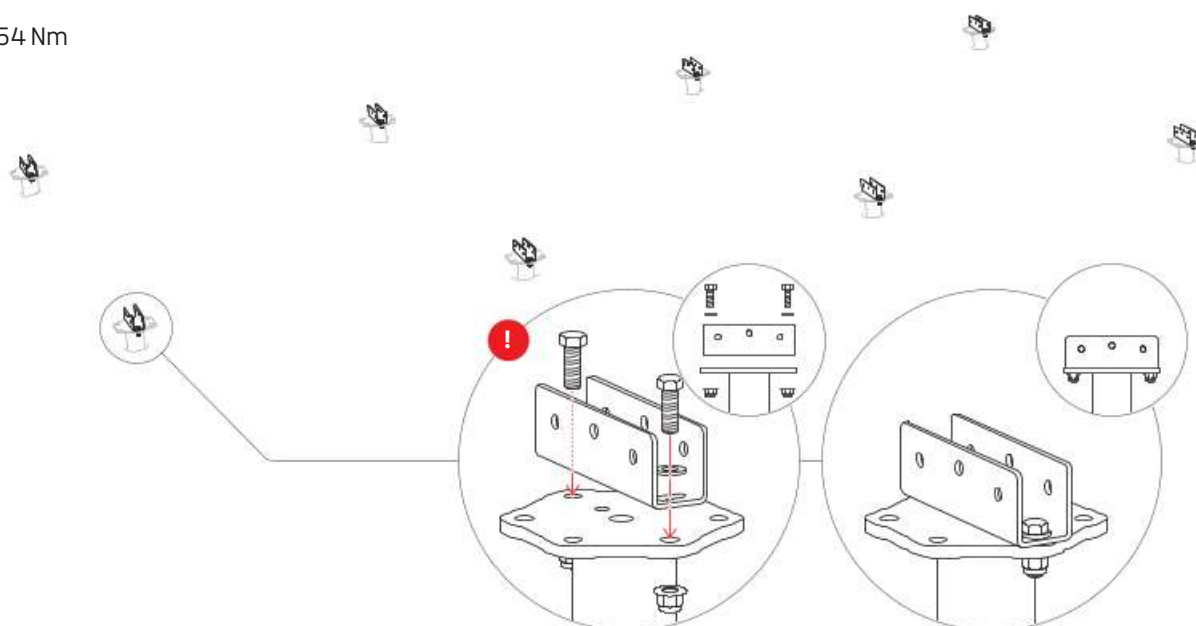
Werte e und z in den Systemdatenblätter „Schraubfundamente“ ab Seite 56.



2a

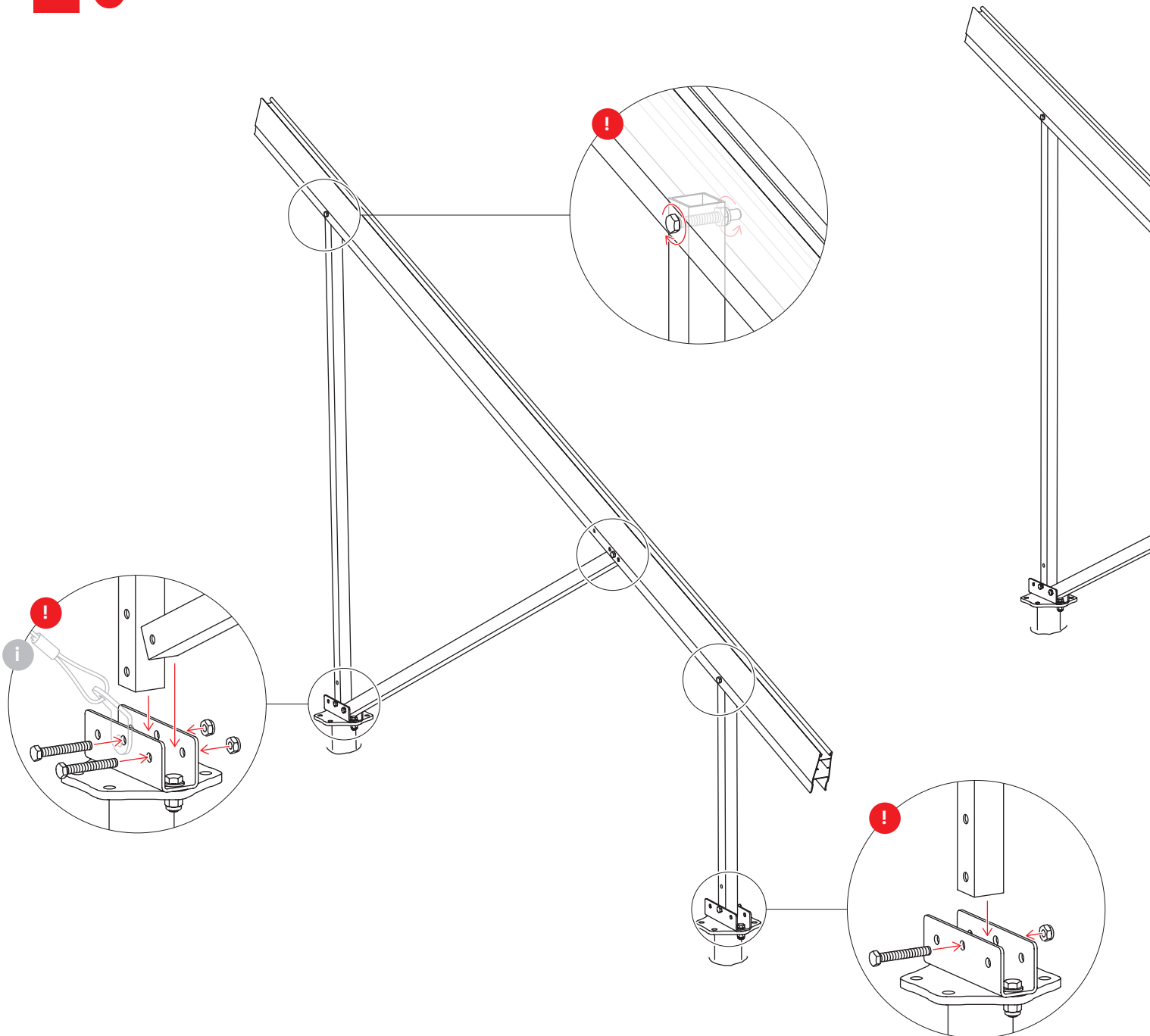
!

54 Nm



Anbindung Stützen

2b ! 30 Nm



i Anbringung des Windverbandes: „Herstellung Windverband“ auf Seite 38.



Generelle Vorgaben



Bodenanforderungen

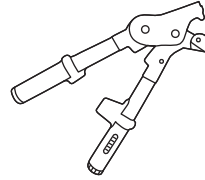
Die Anzahl und die erforderliche Grösse der jeweiligen Rammpfosten ist immer abhängig von der Bodenart, Grösse, Gewicht sowie Wind und Schnee-lasten der geplanten Aufbauten. Es wird ausgegangen von Bodenklasse TL/TM gemäss DIN 18196, Konsistenz halbfest (DIN 1422). Grundlage der endgültigen Fundamentbemessung ist die Vorort zu ermittelnde Bodenbeschaffenheit sowie der statische Nachweis der Tragfähigkeit, basierend auf ein zutreffendes statisches Berechnungsmodell.

Statische Anforderungen

Anforderungen Kits

- 1,8 – 1,9 m Einbindetiefe Hutprofil K2
- ≤ 1,75 kN Schnee und ≤ 0,67 kN Wind

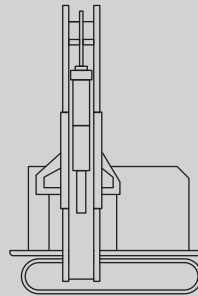
Zusätzliche Werkzeuge



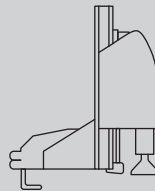
Gripple Spannzange 400 · 2004456



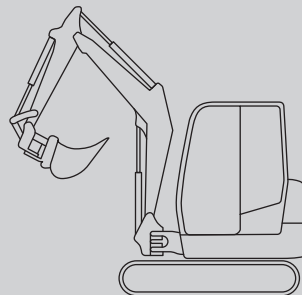
Geräte/Maschinen zum Einbringen der Rammfundamente sind beim Baugeräteverleih erhältlich. Alternativ kann auch der Garten- und Landschaftsbau beauftragt werden.



Rammmaschine



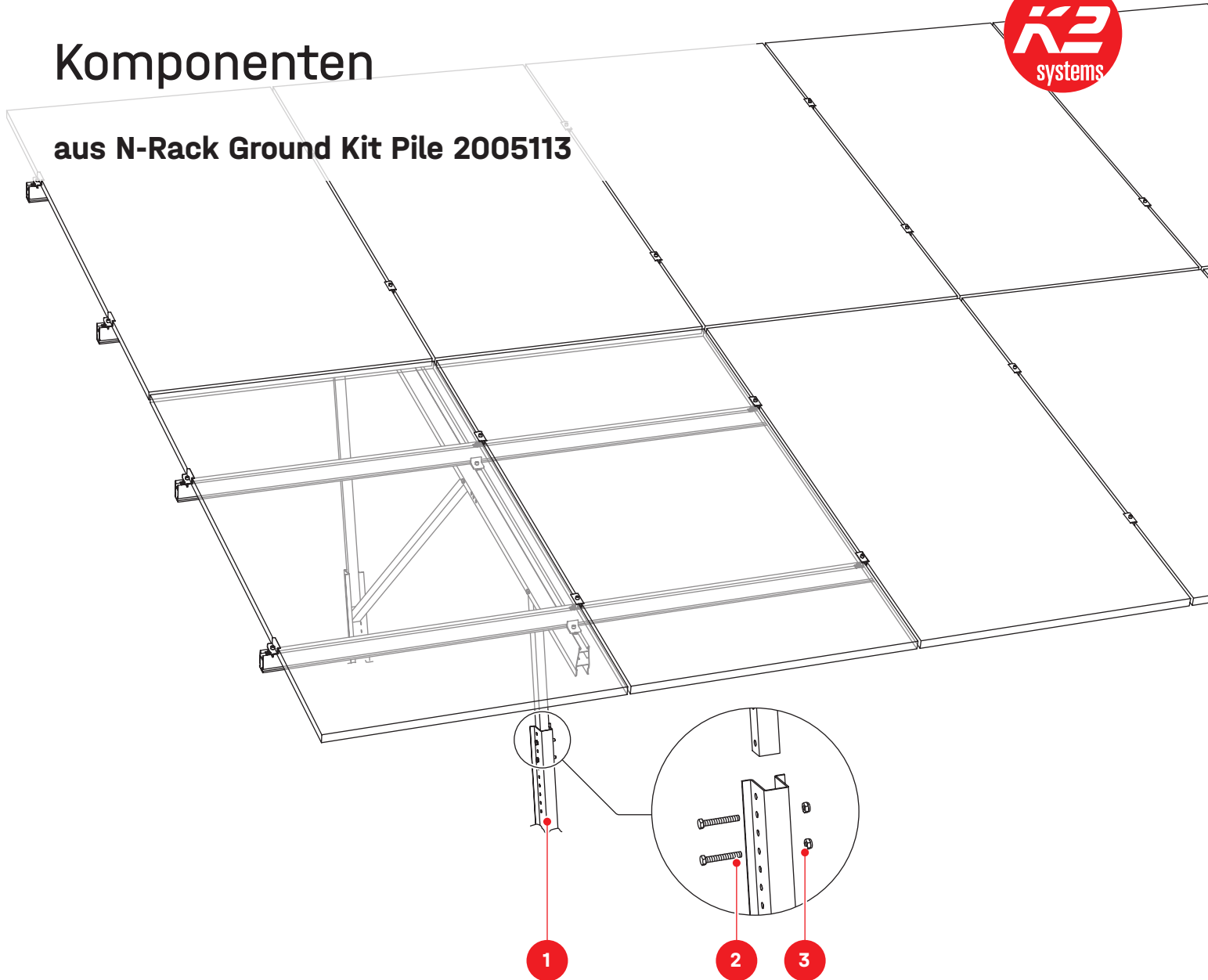
Pfahlramme zum Anbau an Mini-Bagger etc.



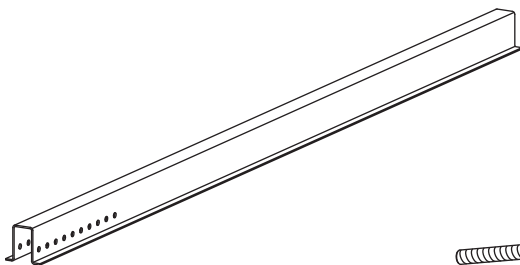
Bagger

Komponenten

aus N-Rack Ground Kit Pile 2005113



N-Rack Ground Kit Pile



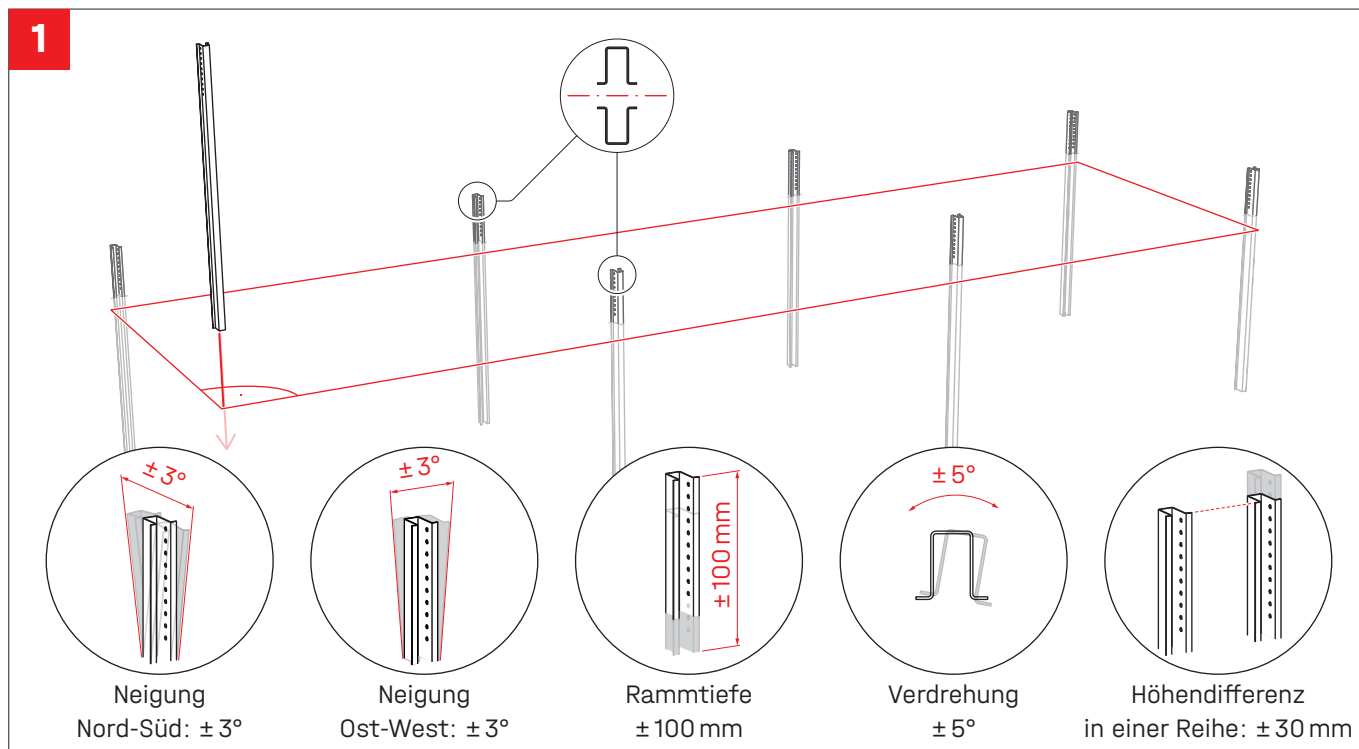
1 2005112
Cap-Profile
N-Rack 2,3 m

2 2004408
Sechskantschraube
mit Schaft M10 x 70

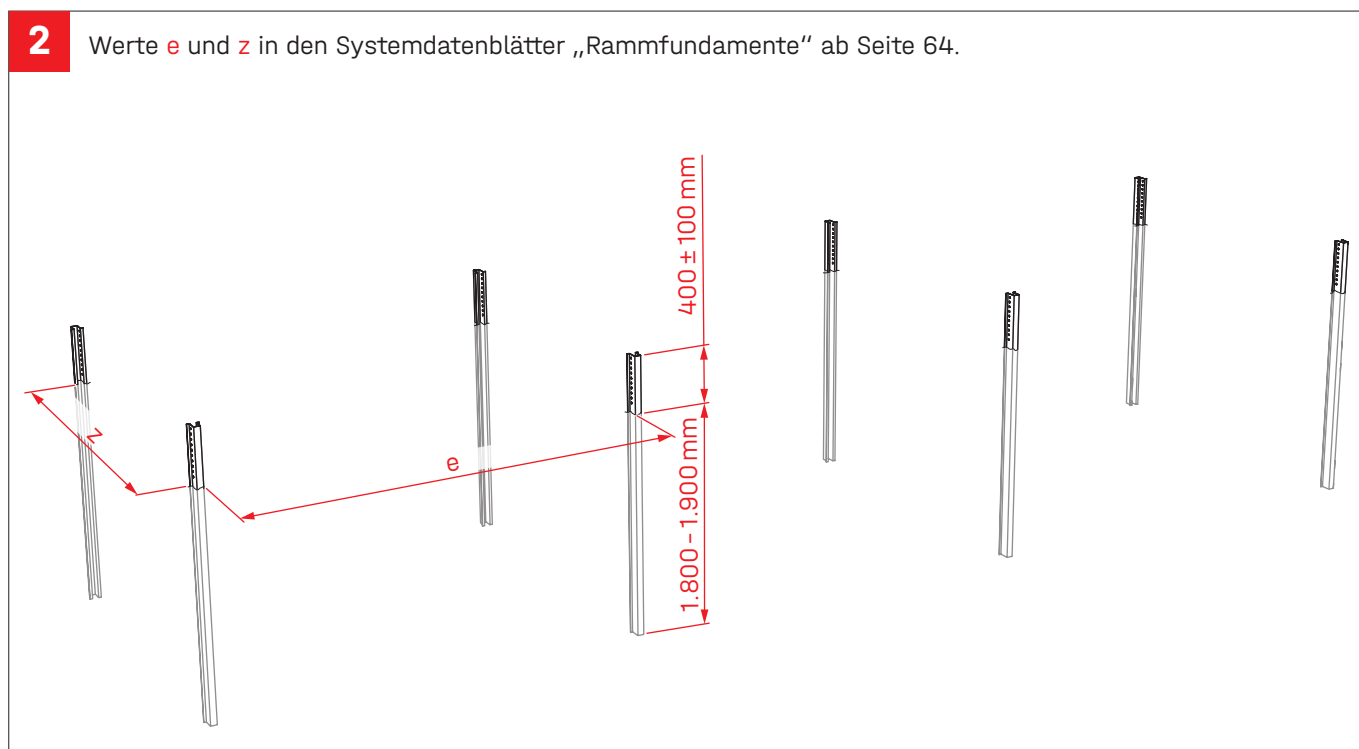
3 1002849
Sechskant Sicherungs-
mutter M10

Montage

Gründung

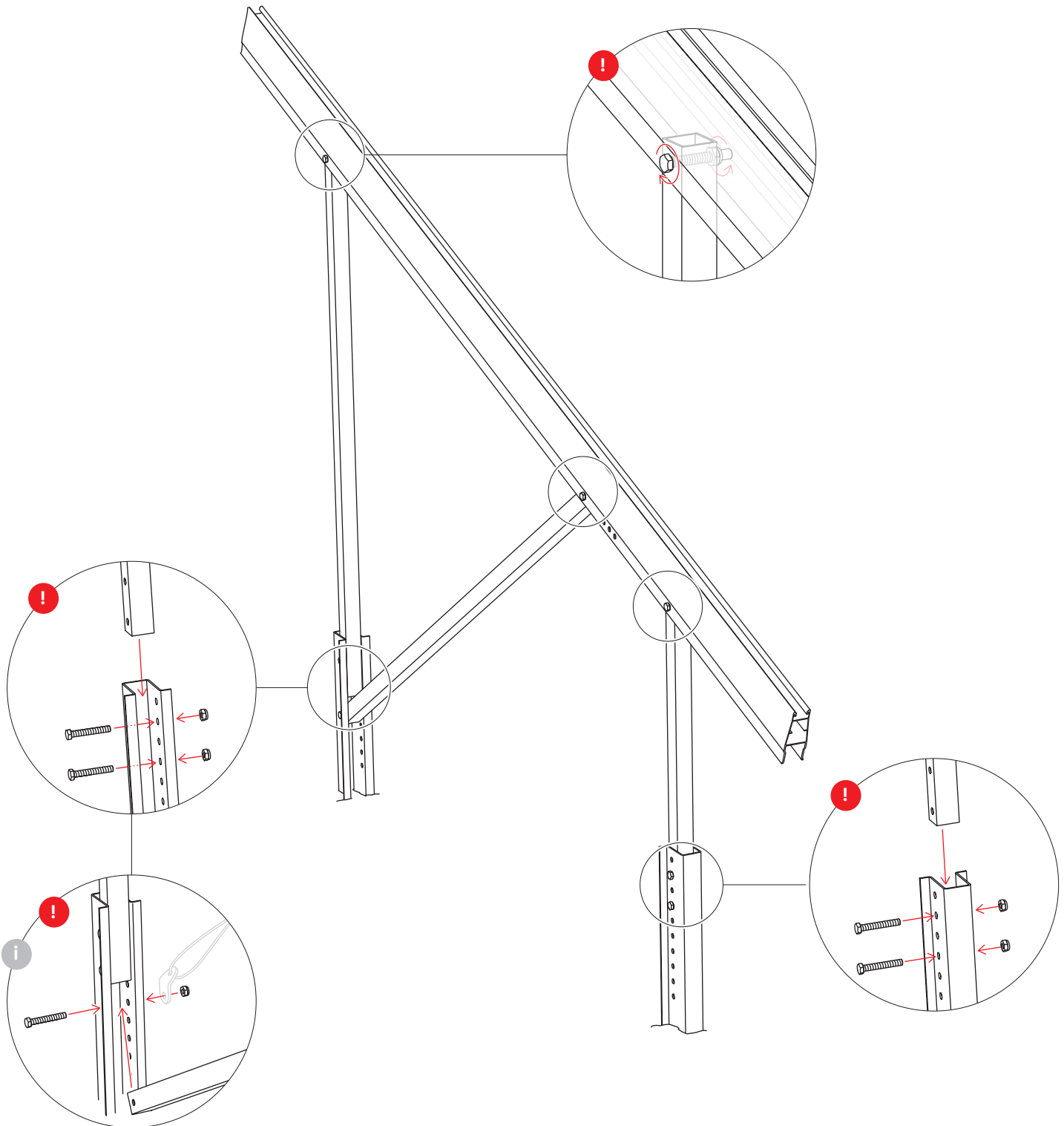


Abstände



Anbindung Stützen

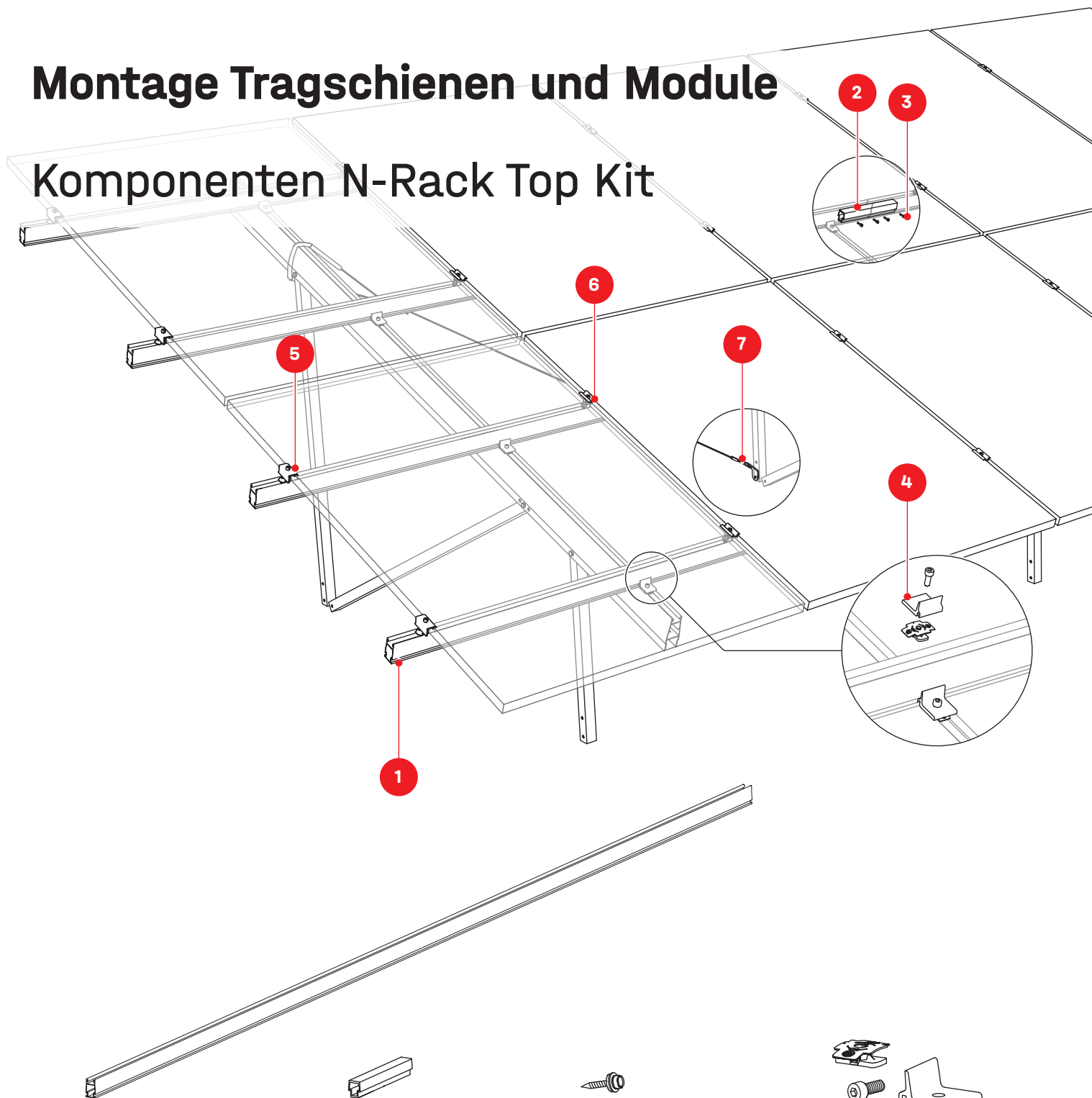
3 ! 30 Nm



i Anbringung des Windverbandes: „Herstellung Windverband“ auf Seite 38.

Montage Tragschienen und Module

Komponenten N-Rack Top Kit



1 Artikelnummer
anlagenspezifisch,
siehe S. 8
CrossRail 73

2 2004409
**CrossRail 73
Connector**

3 1001051
**Bohrschraube
5,5 × 25**

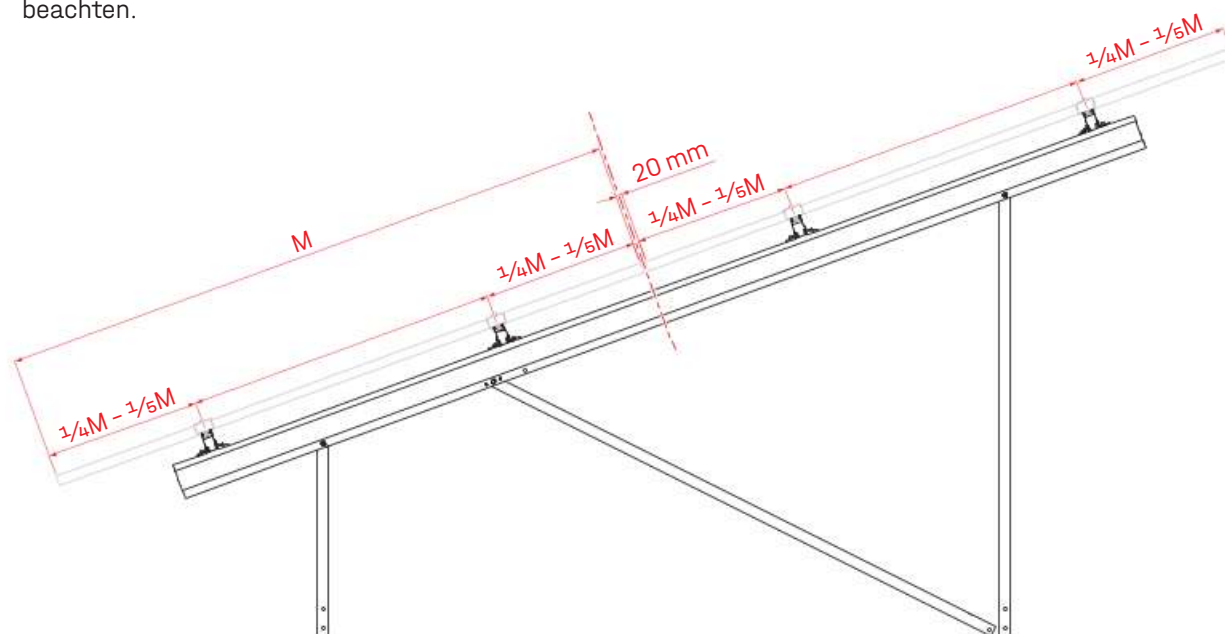
4 2003145
Climber 36/50 Set

5 2004543
**Modulendklemme
K2 Clamp EC 25 - 40**

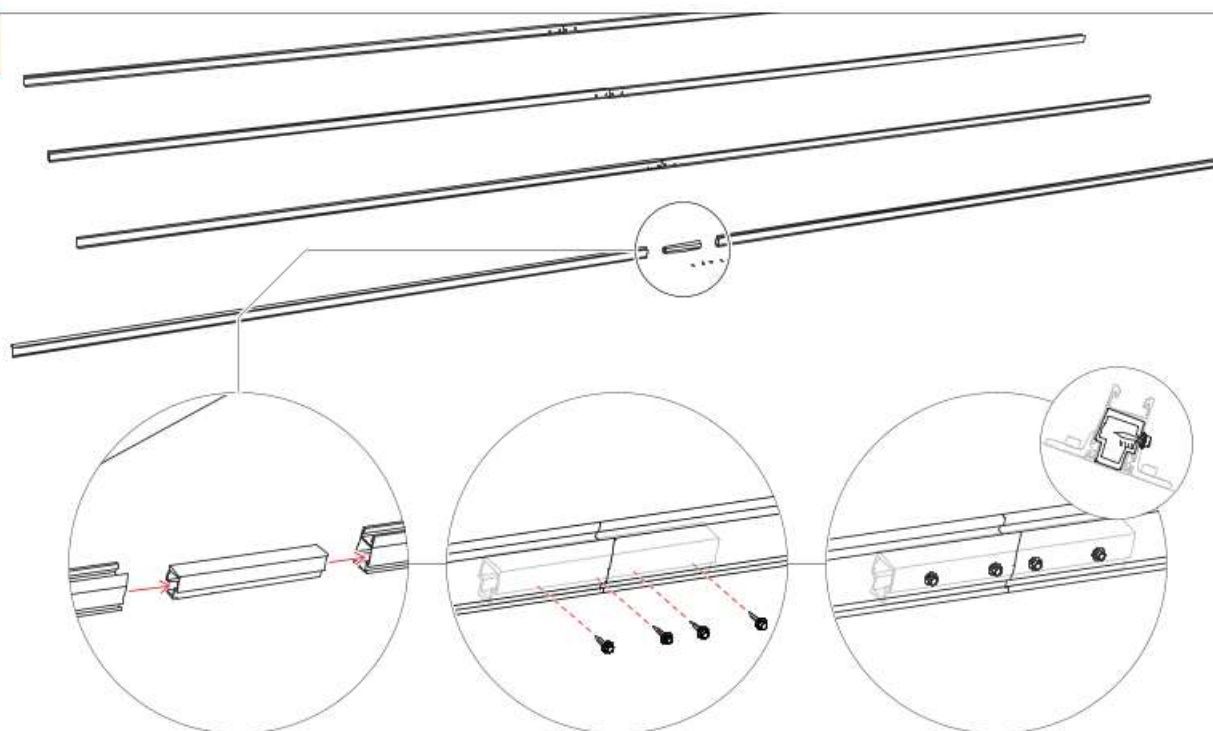
6 2004146
**Modulmittelklemme
K2 Clamp MC 25 - 40**

7 2004410
Windverband Set

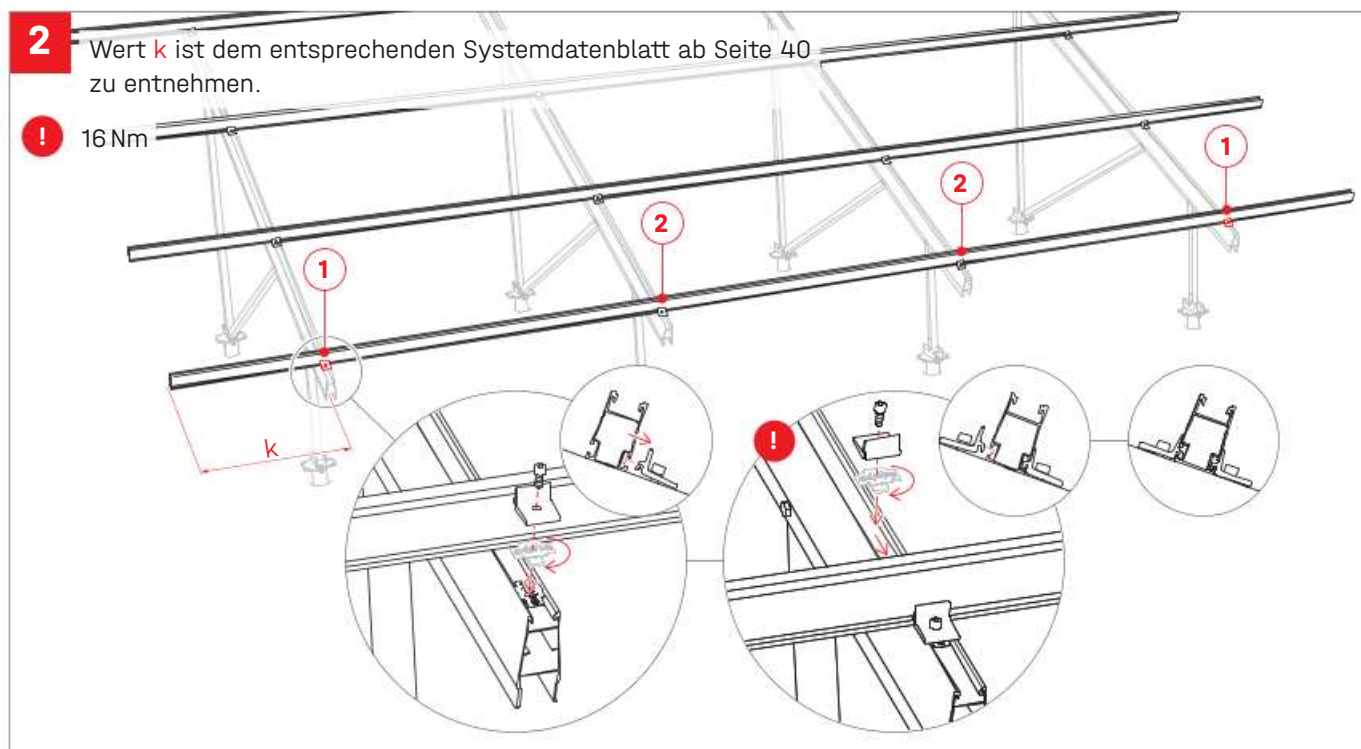
- 1a** M = Modullänge. Die Klemmenposition und die Module müssen symmetrisch zur Länge des Obergurts angeordnet werden. Herstellerangaben zum Klemmbereich der Module beachten.



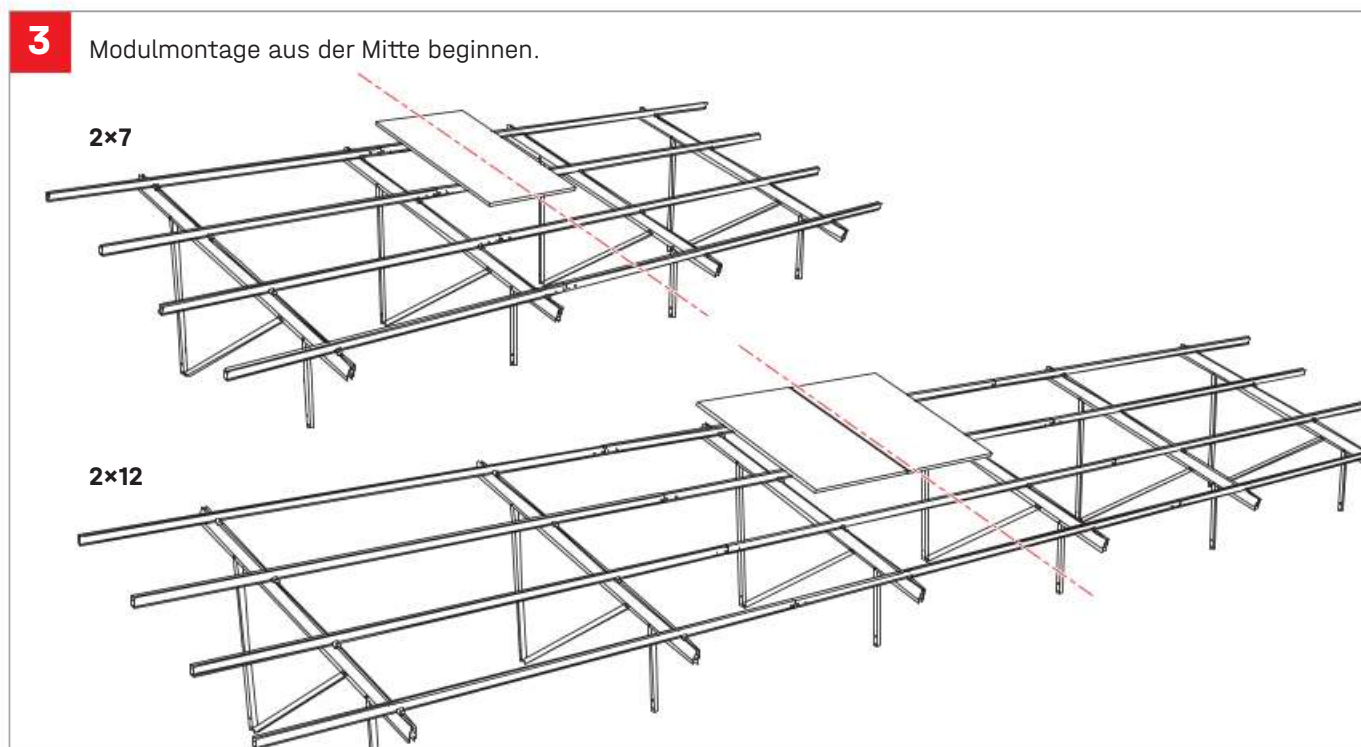
1b

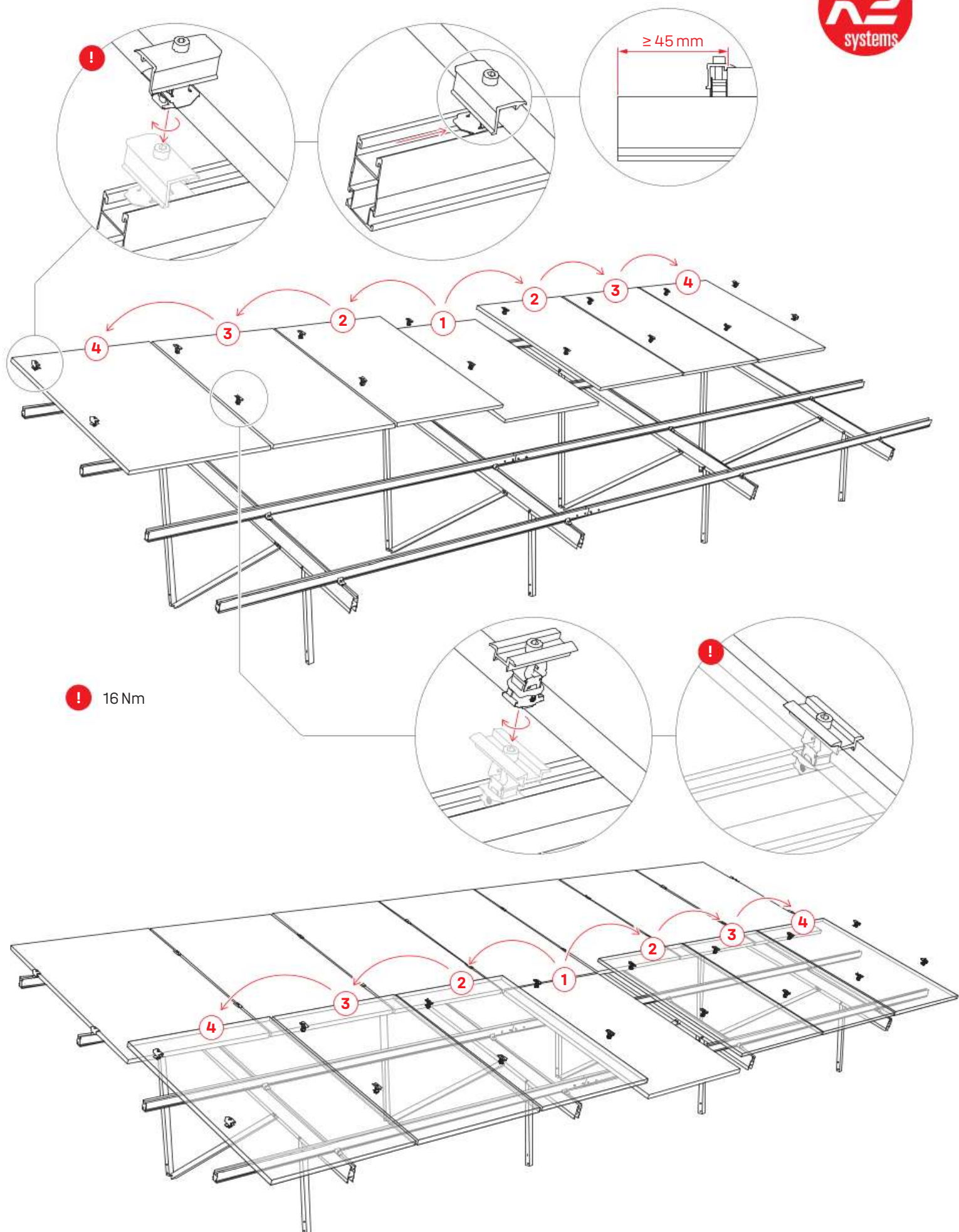


Anbindung Tragschiene CrossRail

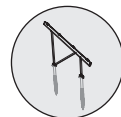
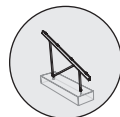


Modulmontage



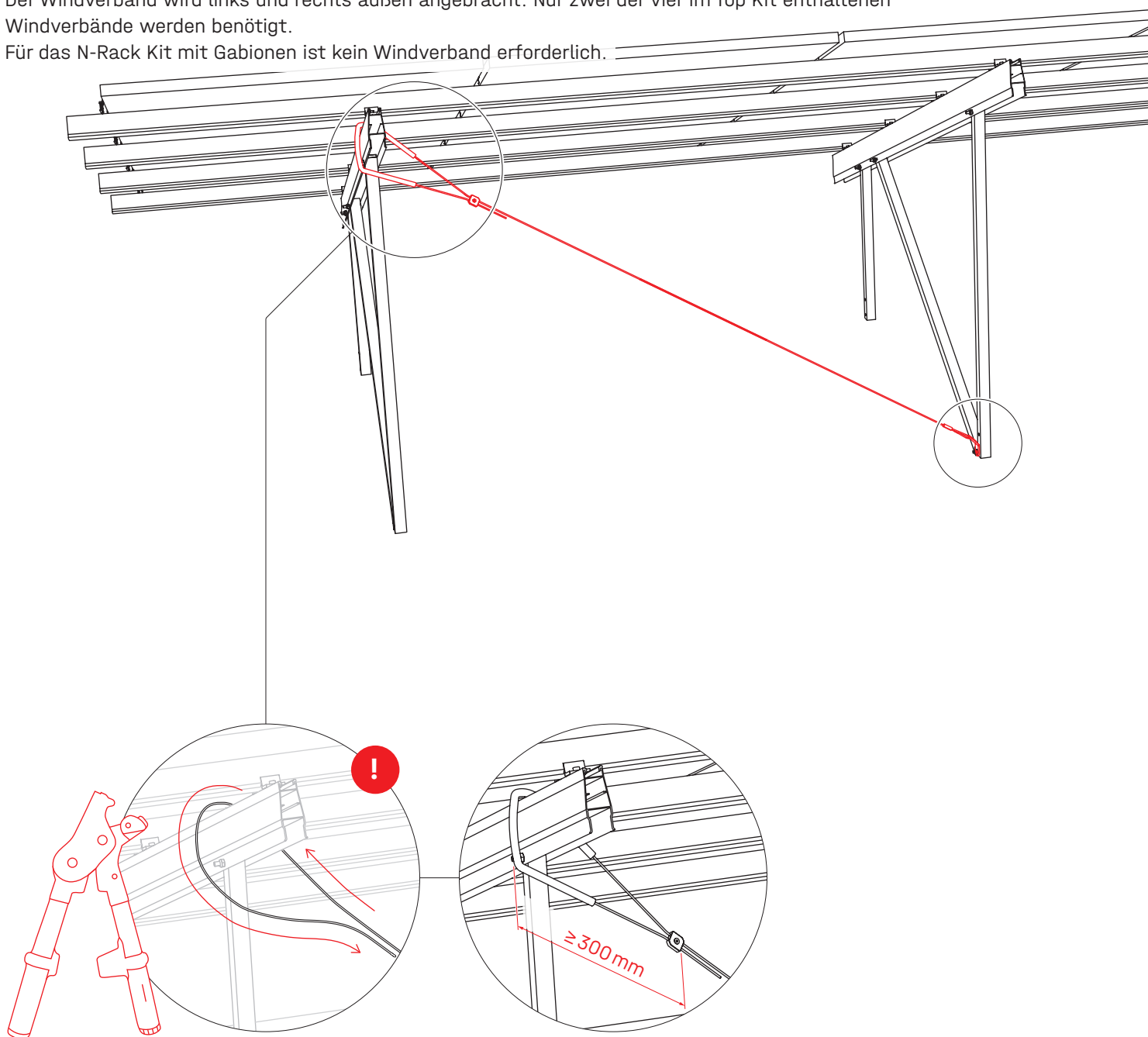


Herstellung Windverband

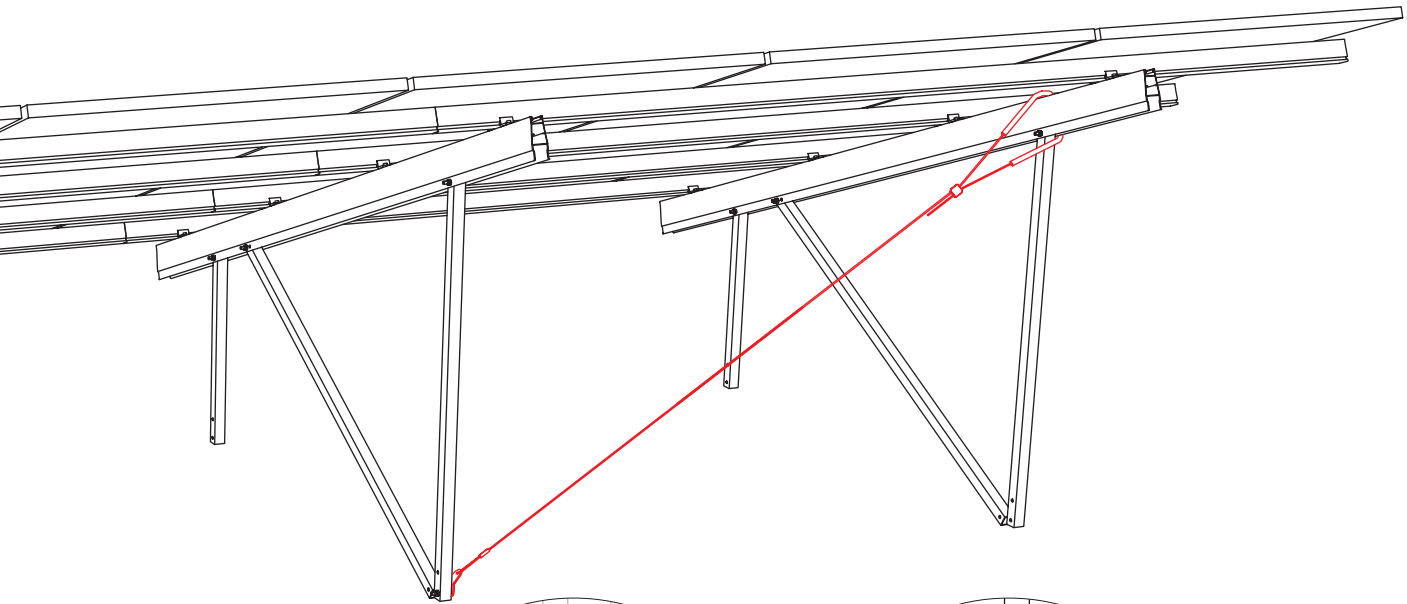


Der Windverband wird links und rechts außen angebracht. Nur zwei der vier im Top Kit enthaltenen Windverbände werden benötigt.

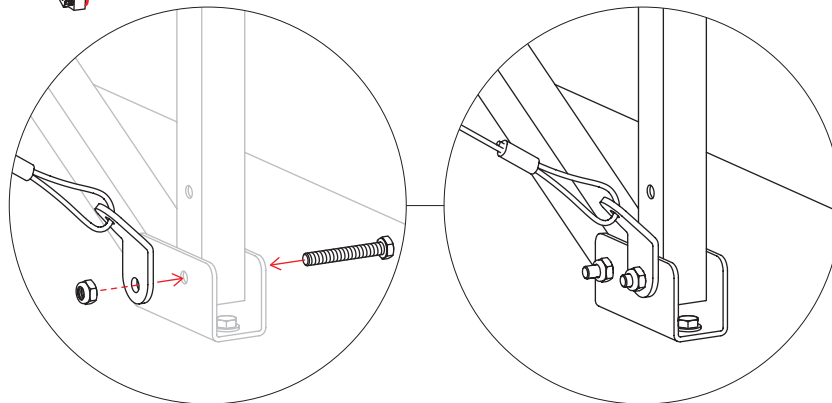
Für das N-Rack Kit mit Gabionen ist kein Windverband erforderlich.



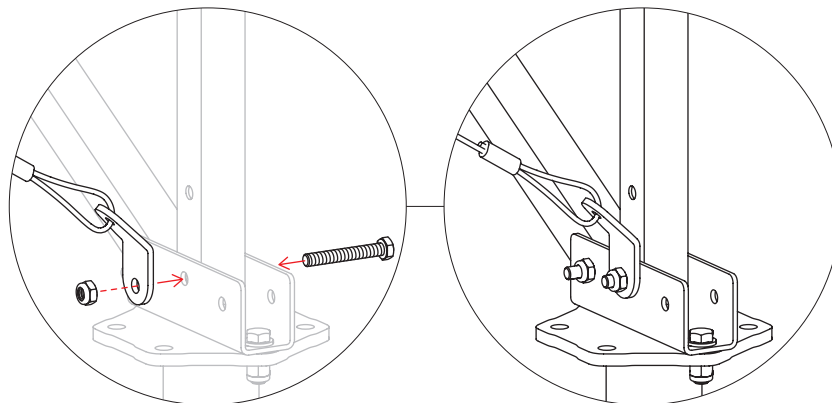
! Anwendungshinweise des Werkzeugherstellers beachten



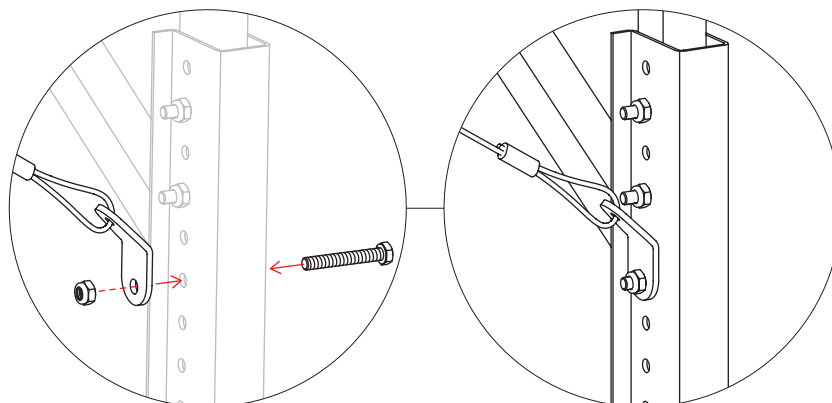
Betonfundamente



Schraubfundamente



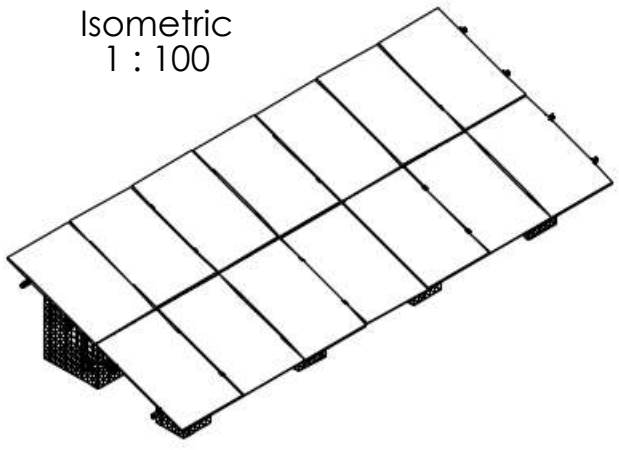
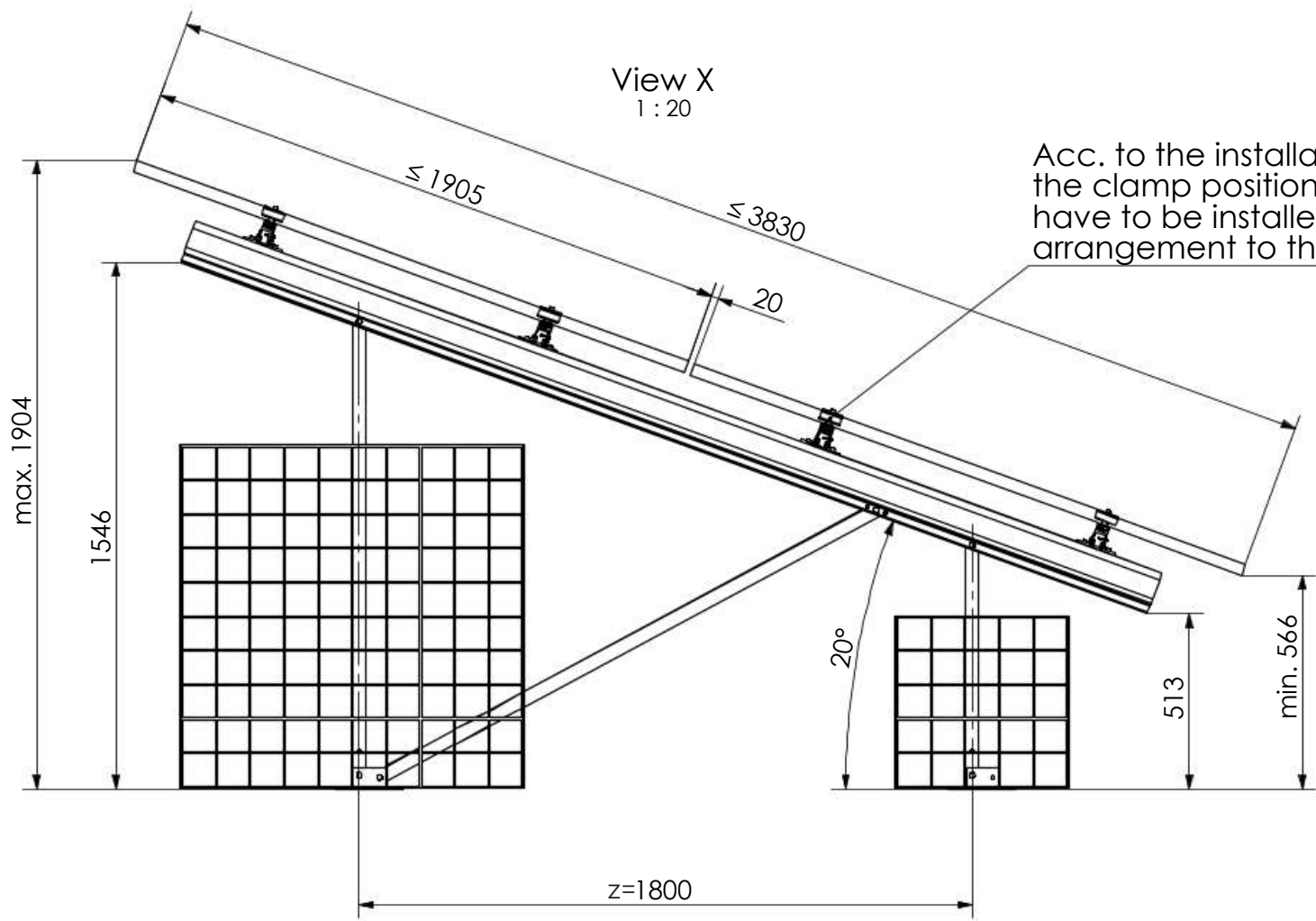
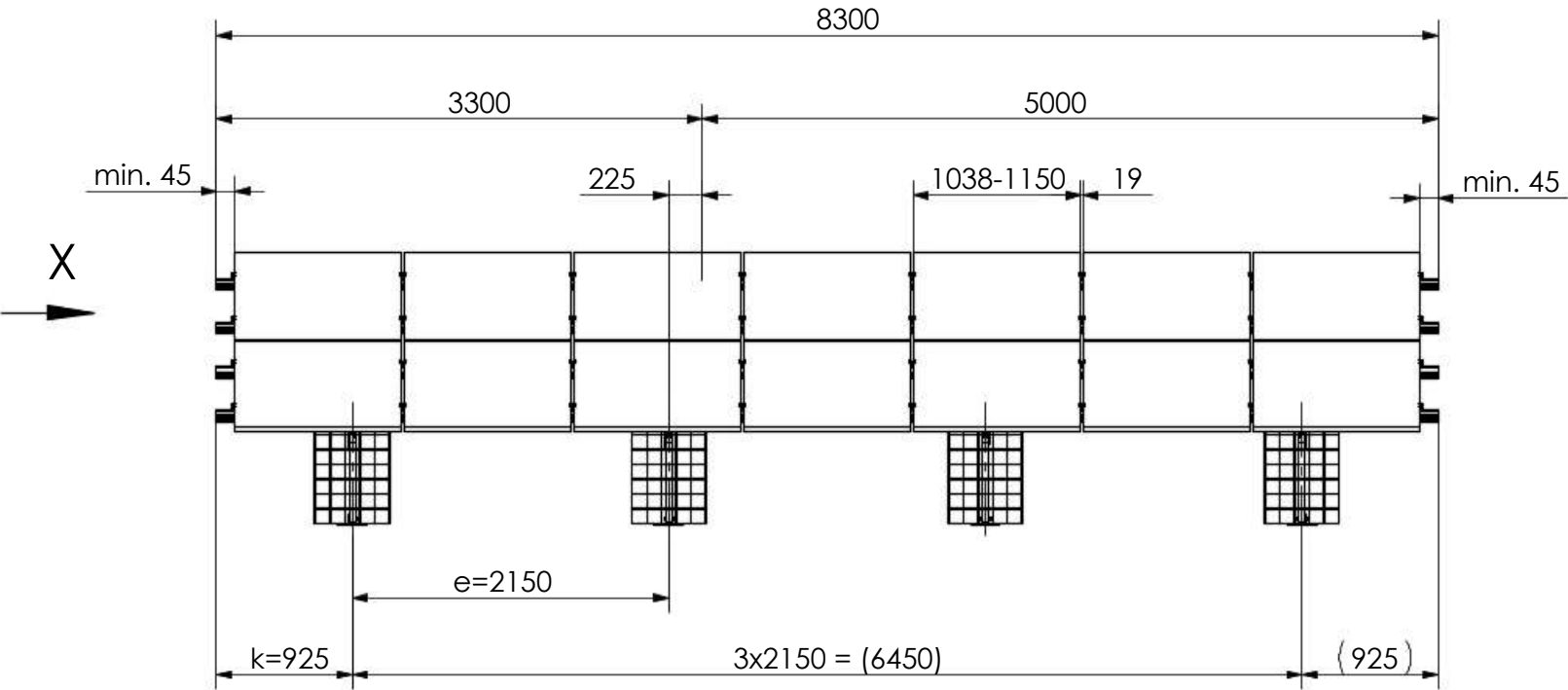
Rammfundamente



Systemdatenblätter

Gabionen

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

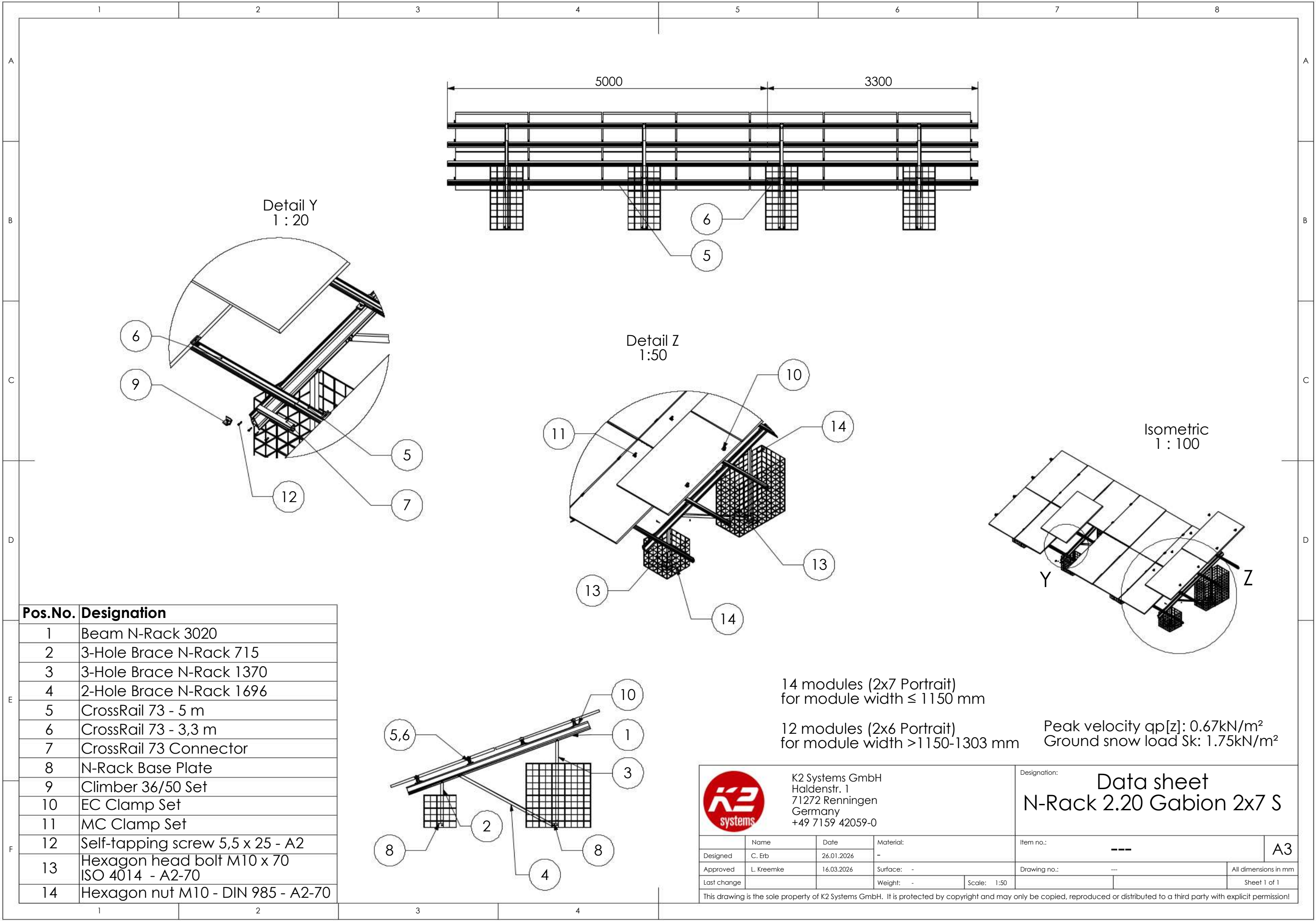


K2 Systems GmbH
Haldenstr. 1
71272 Renningen
Germany
+49 7159 42059-0

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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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

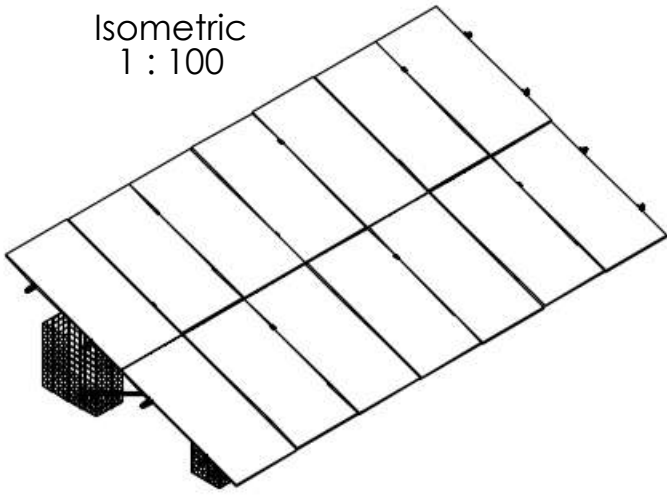
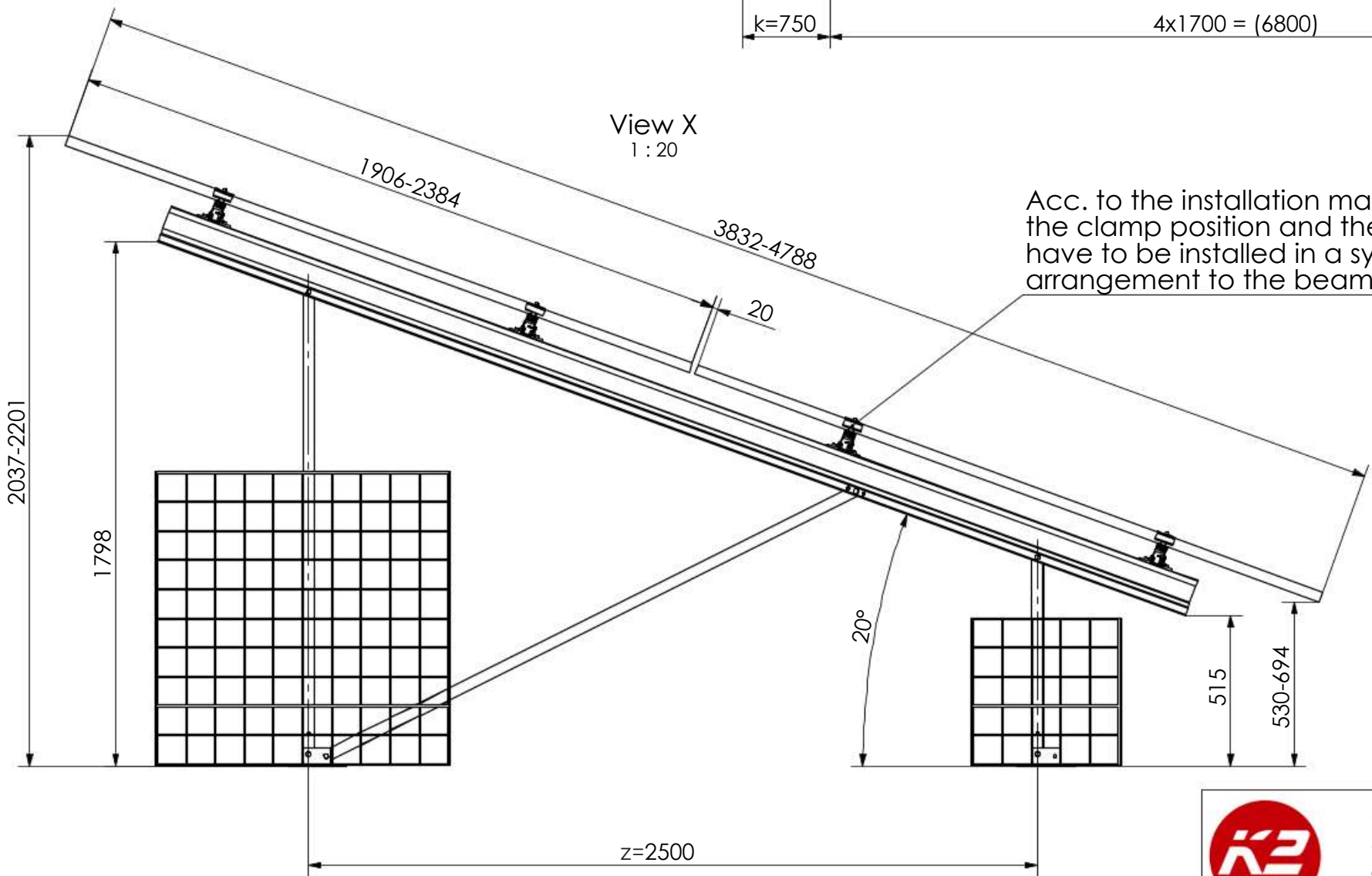
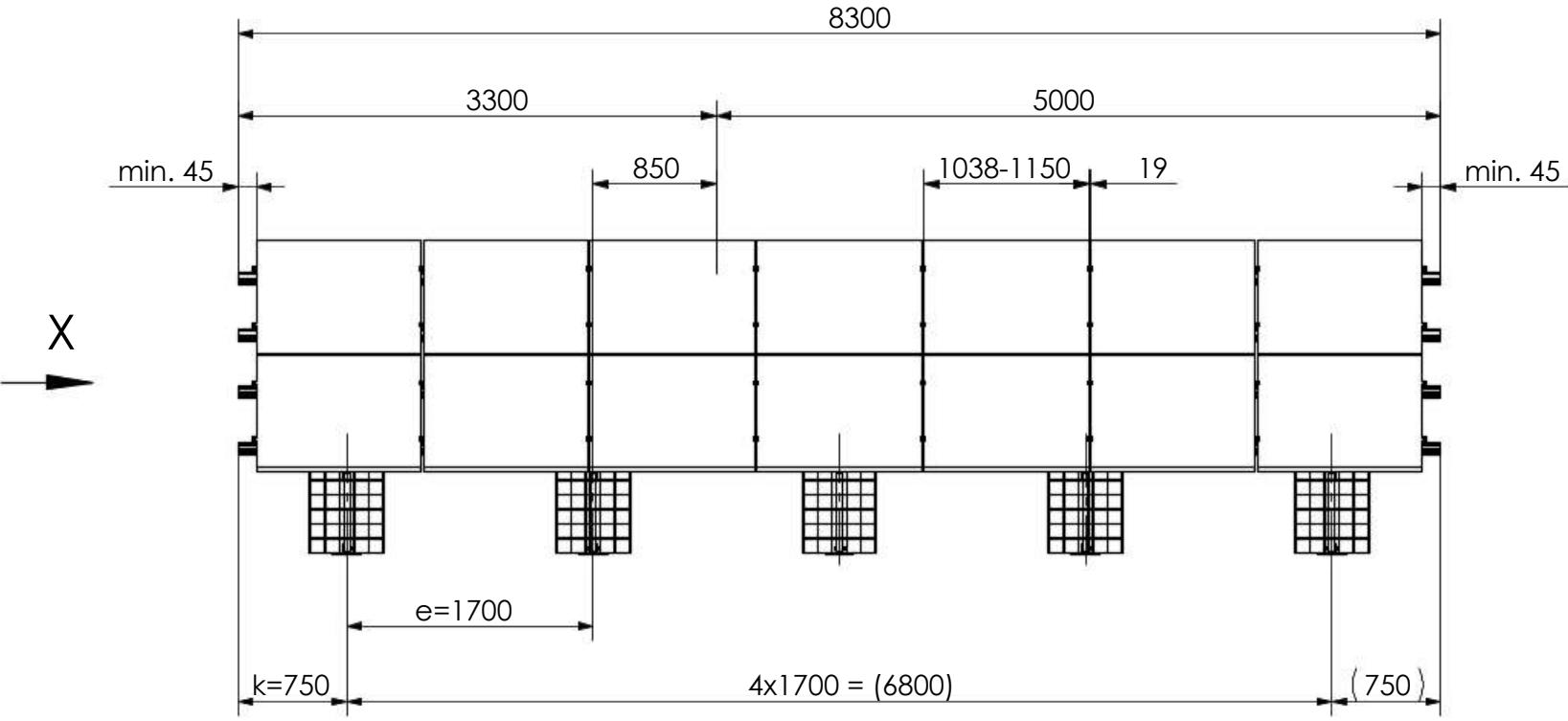


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Designation:		Data sheet N-Rack 2.20 Gabion 2x7 S	
Item no.:	---	A3	
Drawing no.:	---	All dimensions in mm	
Last change		Weight: -	Scale: 1:50
Sheet 1 of 1			

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Gabion Kit 2x7 L



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

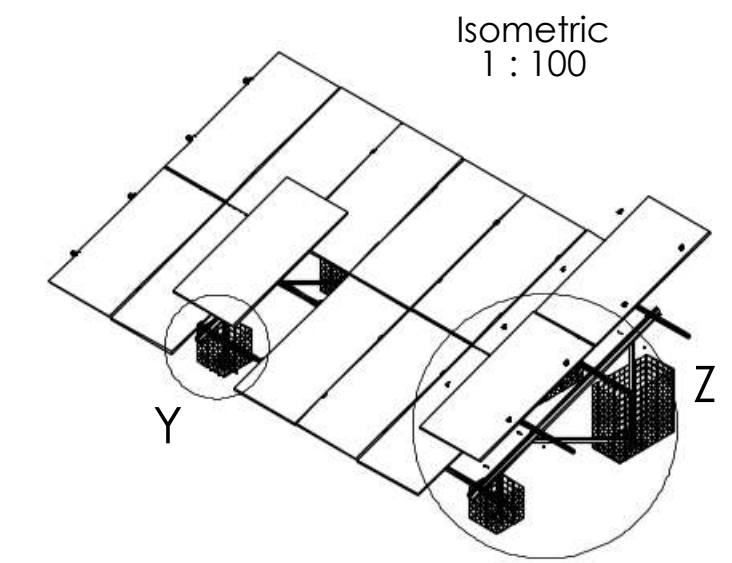
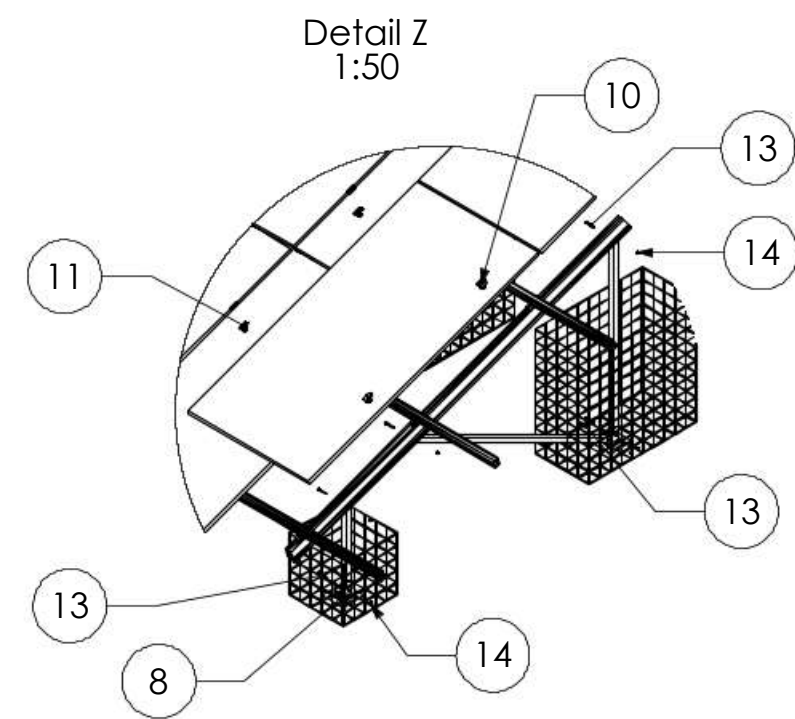
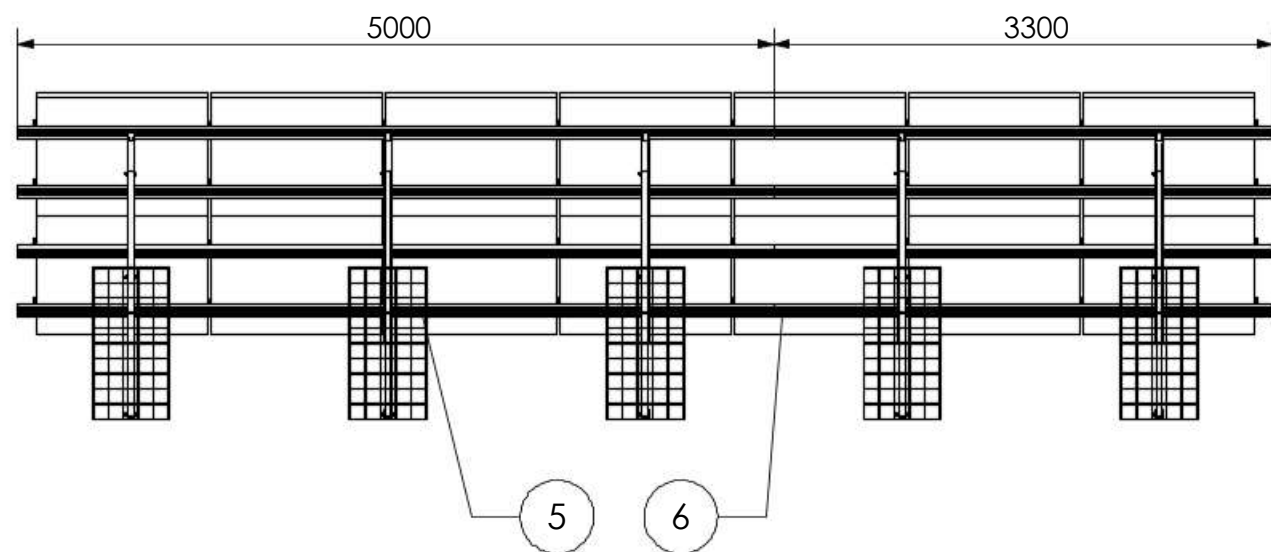
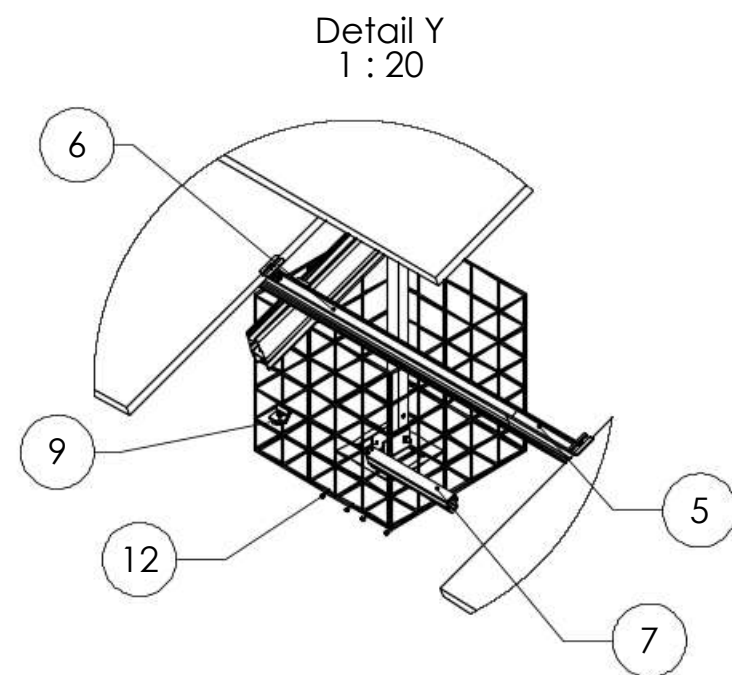


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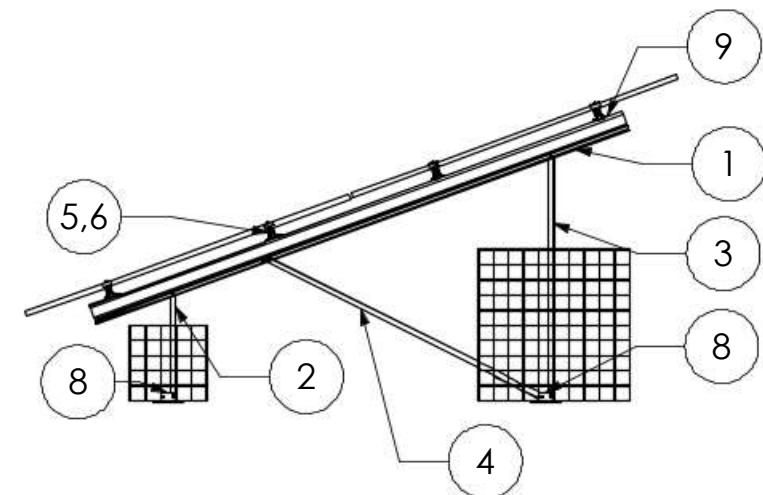
Designation: Data sheet
N-Rack 2.20 Gabion 2x7 L

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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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 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

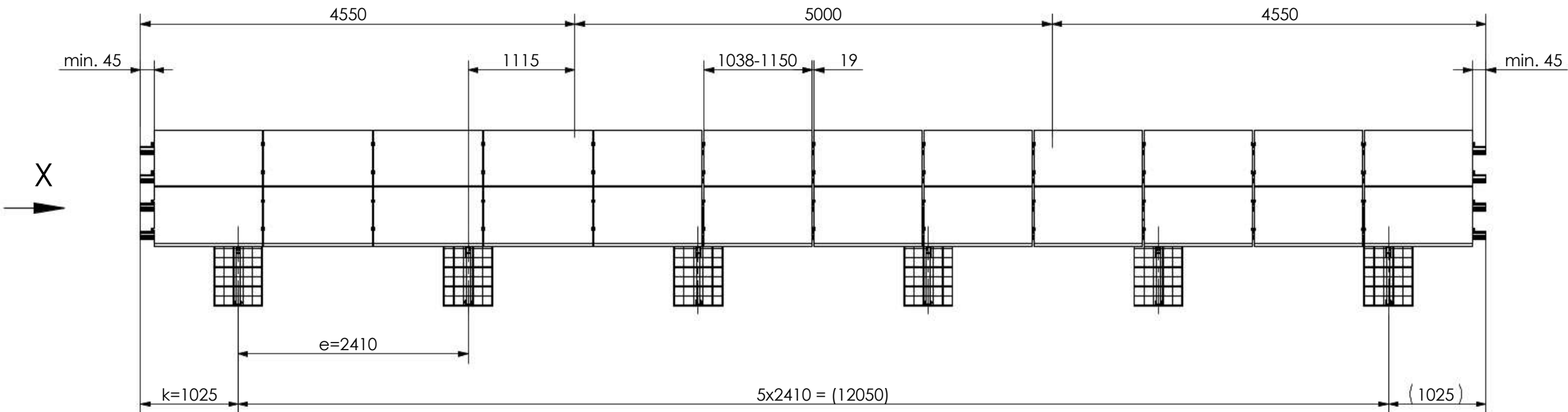


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Designation:		Data sheet N-Rack 2.20 Gabion 2x7 L	
Item no.:	---	A3	
Drawing no.:	---	All dimensions in mm	
Scale: 1:50		Sheet 1 of 1	

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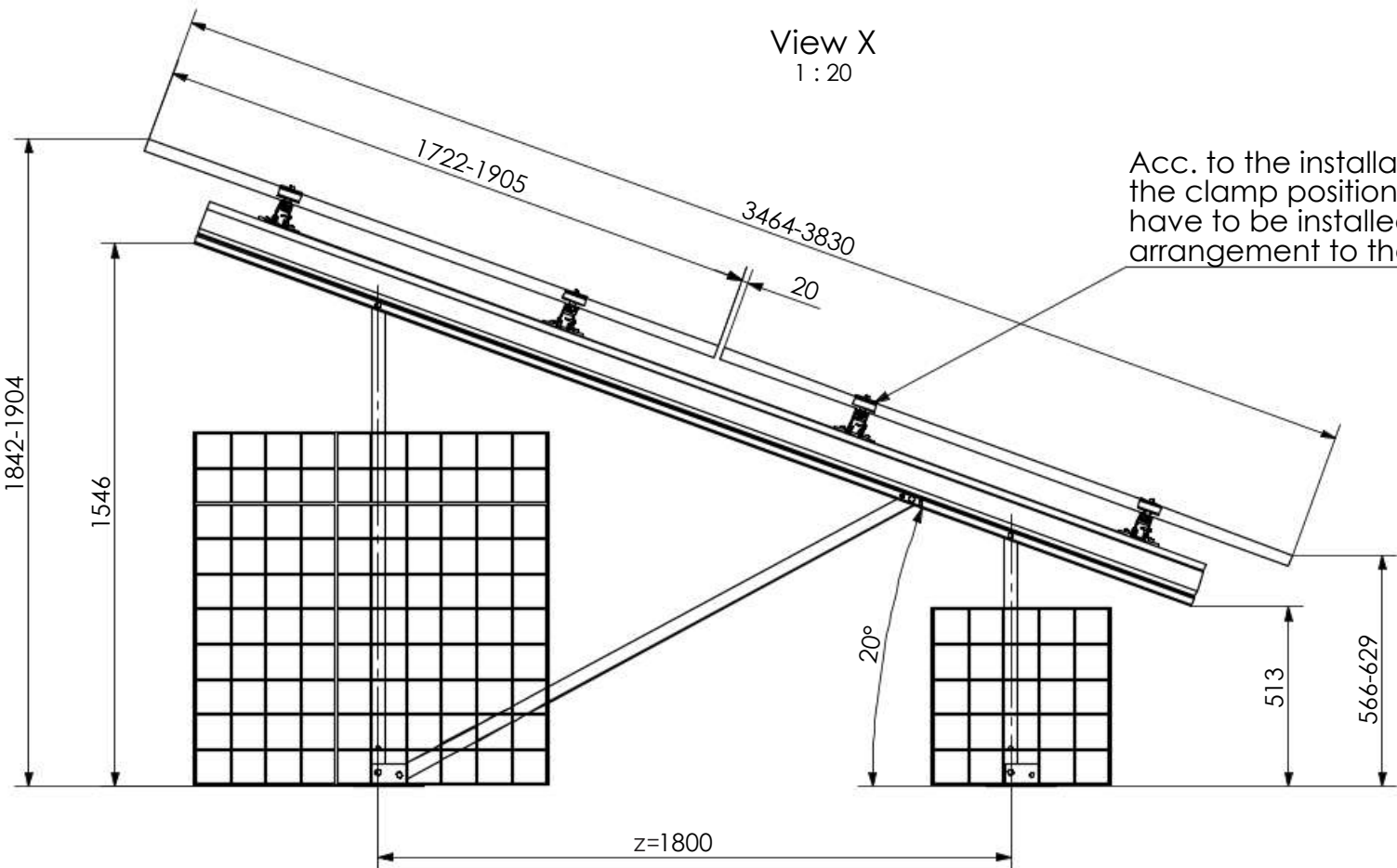
Gabion Kit 2x12 S



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 ≤ 1150mm

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

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

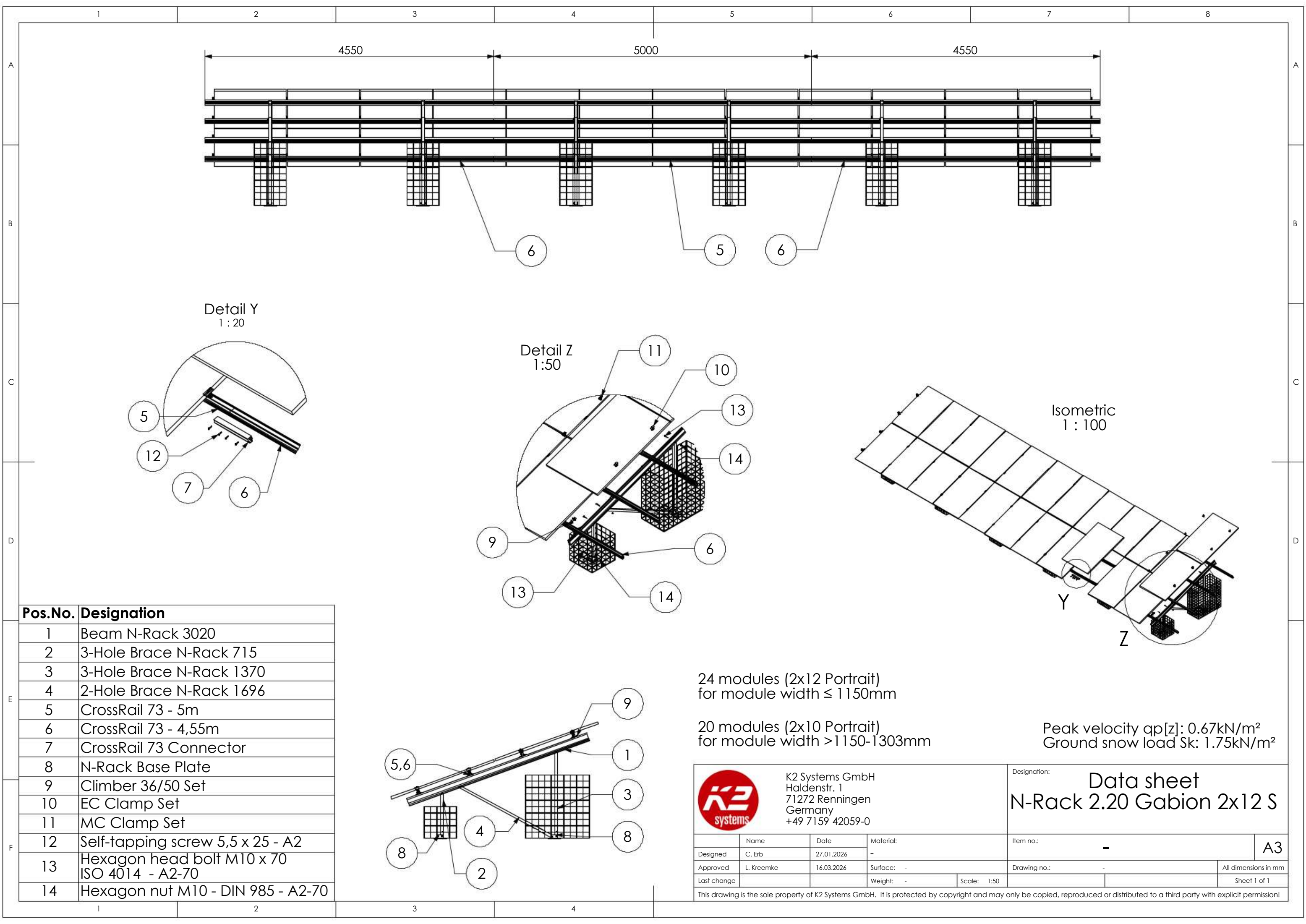


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Designation: Data sheet
N-Rack 2.20 Gabion 2x12 S

	Name	Date	Material:	Item no.:	-	A3
Designed	C. Erb	27.01.2026	-			
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
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 - 5m
6	CrossRail 73 - 4,55m
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 qp[z]: 0.67kN/m²
Ground snow load Sk: 1.75kN/m²



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Designation:

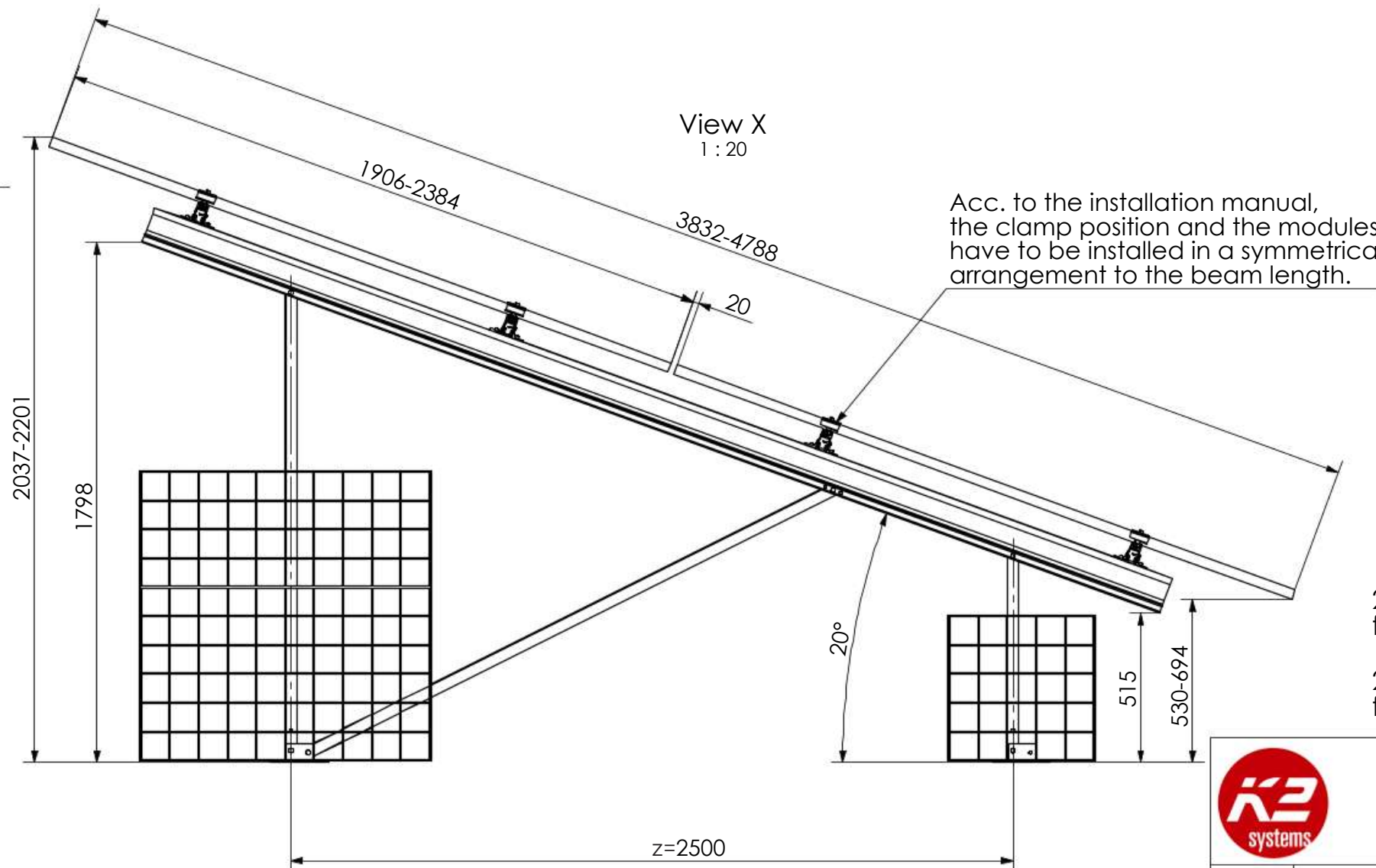
N-Rack 2.20 Gabion 2x12 S

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	

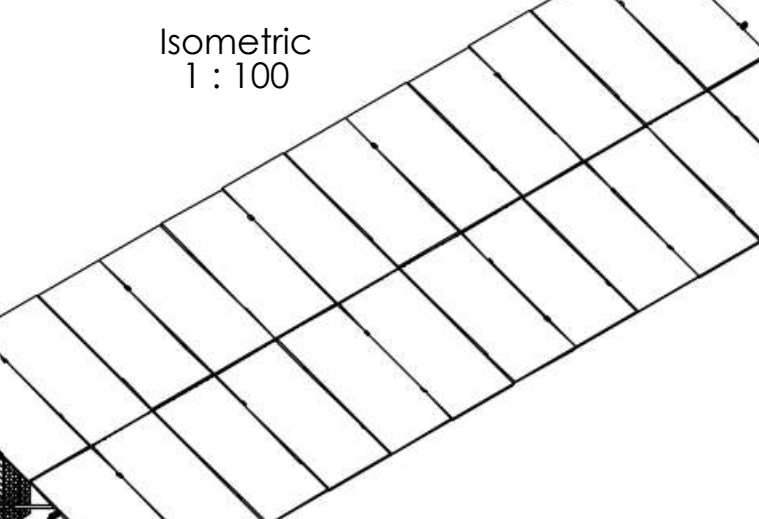
Sheet 1 of 1

All dimensions in mm

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[illegible]

Isometric
1 : 100

An isometric drawing of a roof structure. The roof is shown as a rectangular plane with a grid of lines representing rafters. A cross-section view is shown on the left side, revealing the internal structure of the roof, including a small square feature. The drawing is labeled 'Isometric' and '1 : 100' in the upper left corner.

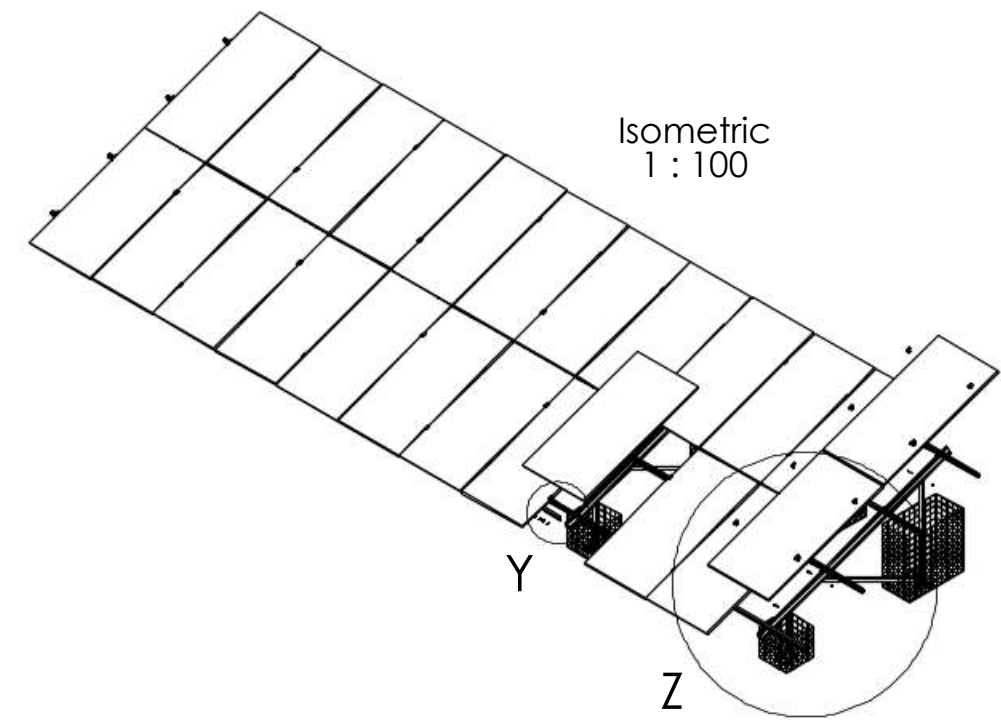
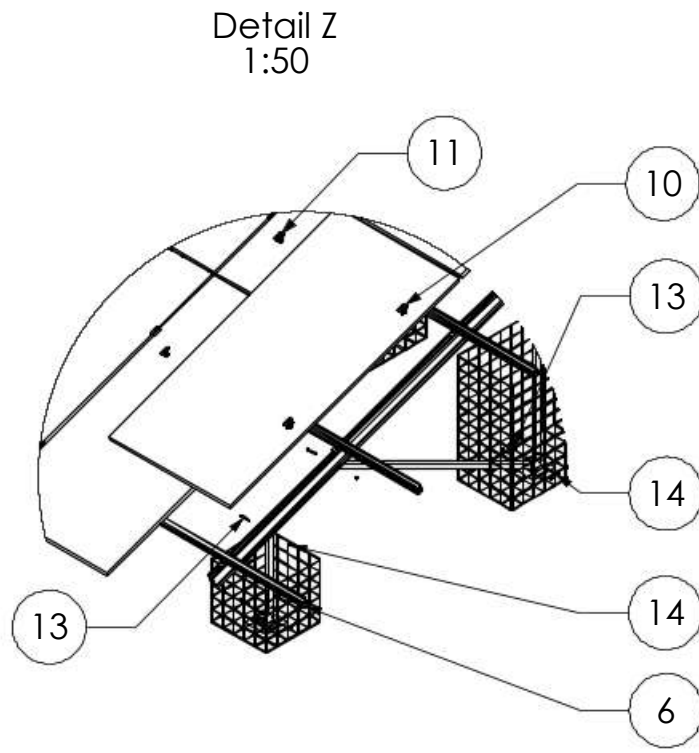
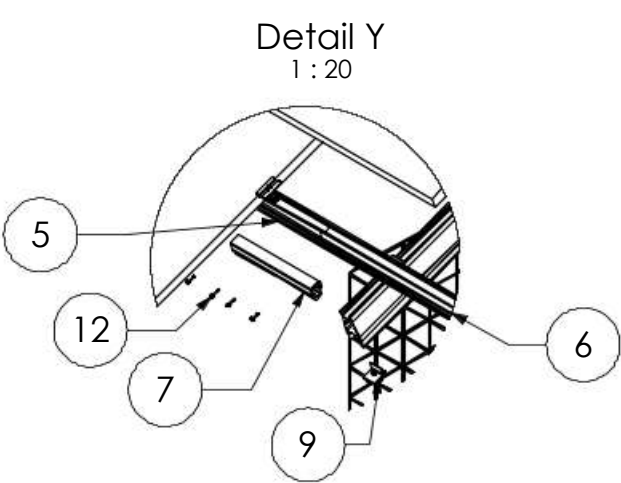
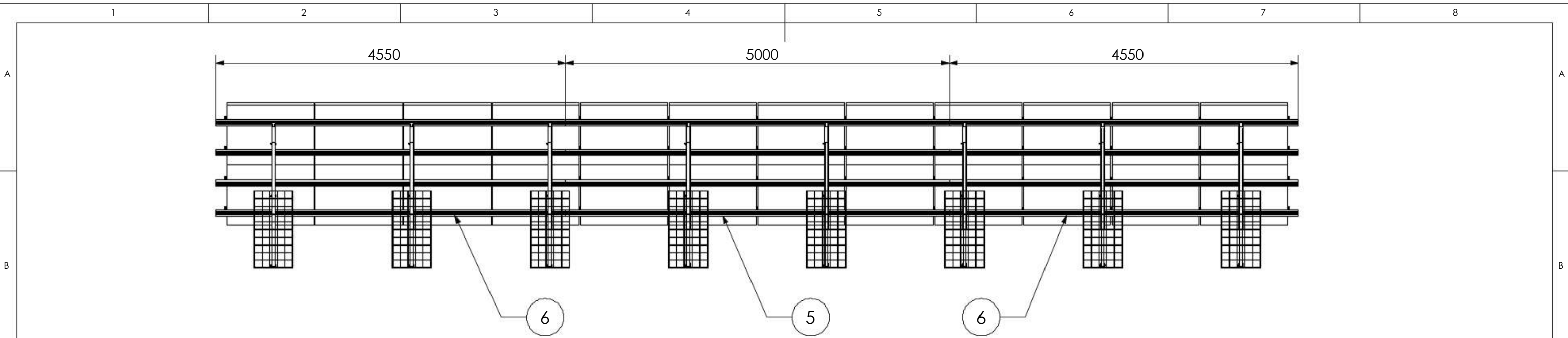
Peak velocity qp[z]: 0.67kN/m²
Ground snow load Sk: 1.75kN/m²



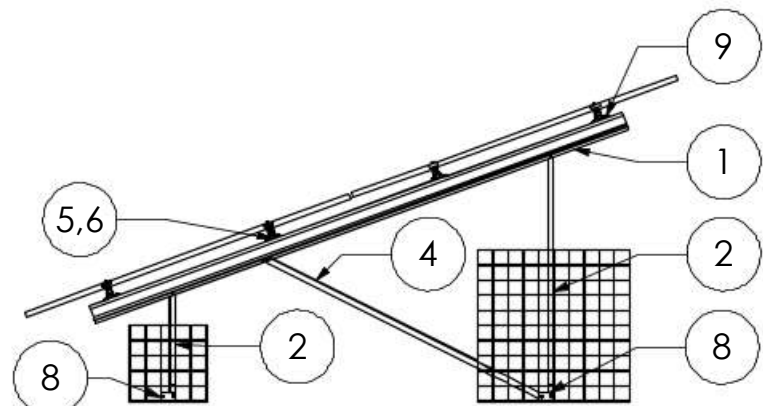
Designation:	Data sheet N-Rack 2.20 Gabion 2x12 L
--------------	---

	Name	Date	Material:		Item no.:		A3
Designed	C. Erb	27.01.2026	-		-		
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
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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Designation: **Data sheet N-Rack 2.20 Gabion 2x12 L**

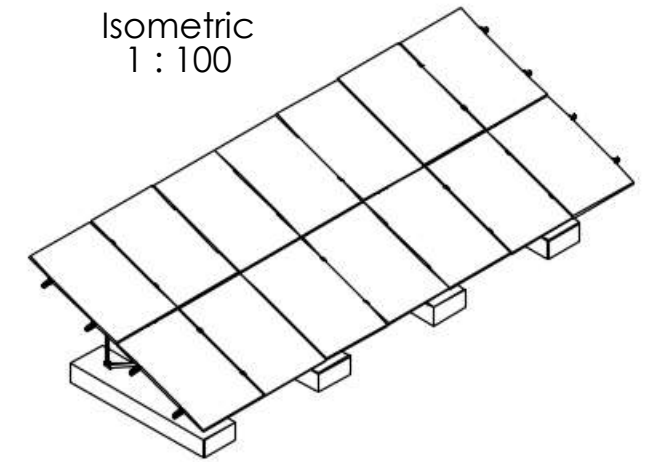
Name	Date	Material:	Item no.: -
Designed C. Erb	27.01.2026	-	A3
Approved L. Kreemke	16.03.2026	Surface: -	
Last change		Weight: -	
Scale: 1:50			Sheet 1 of 1

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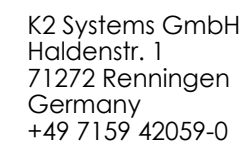
Concrete Kit 2x7 S



Isometric
1 : 100



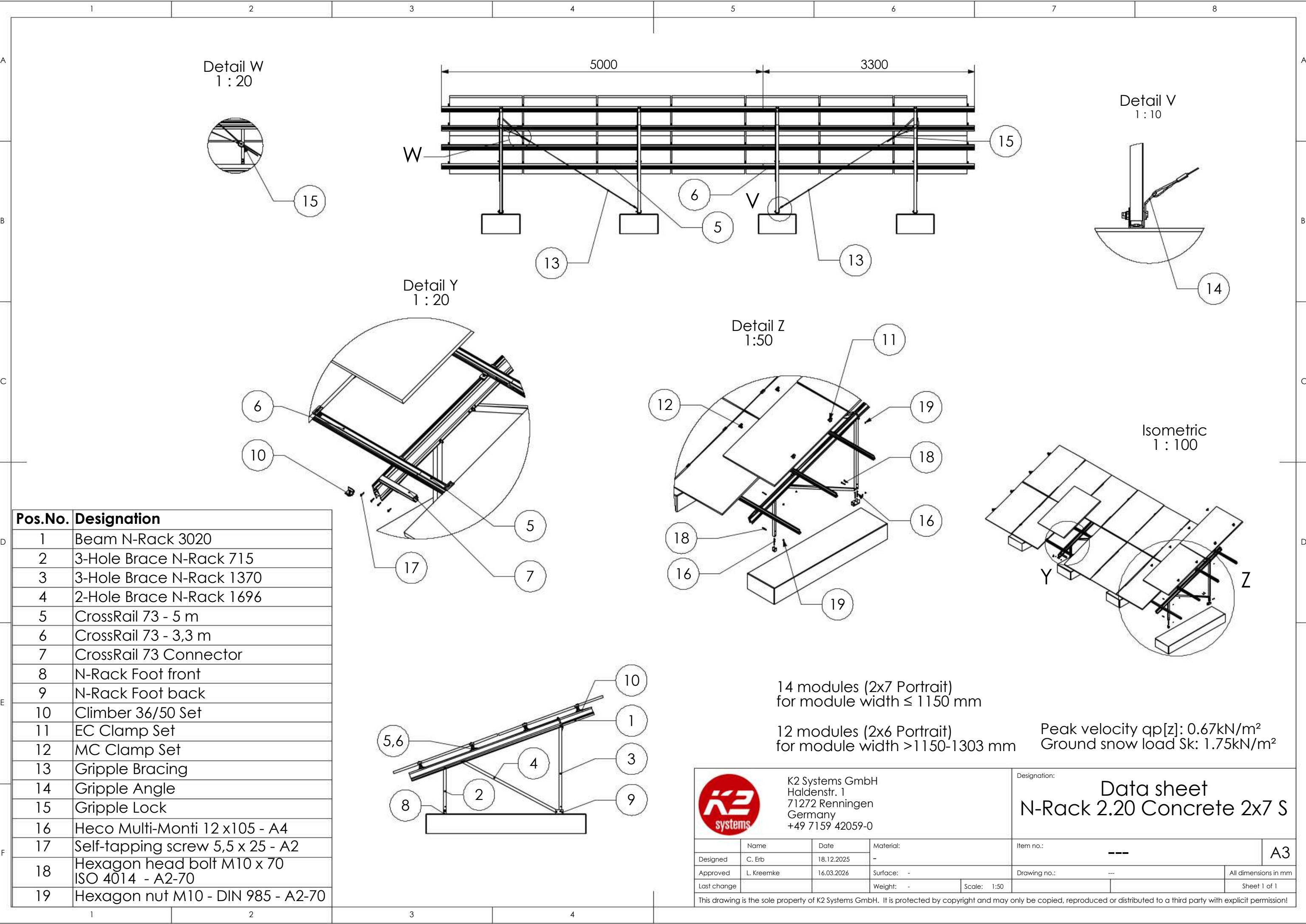
Peak velocity qp[z]: 0.67kN/m²
Ground snow load Sk: 1.75kN/m²

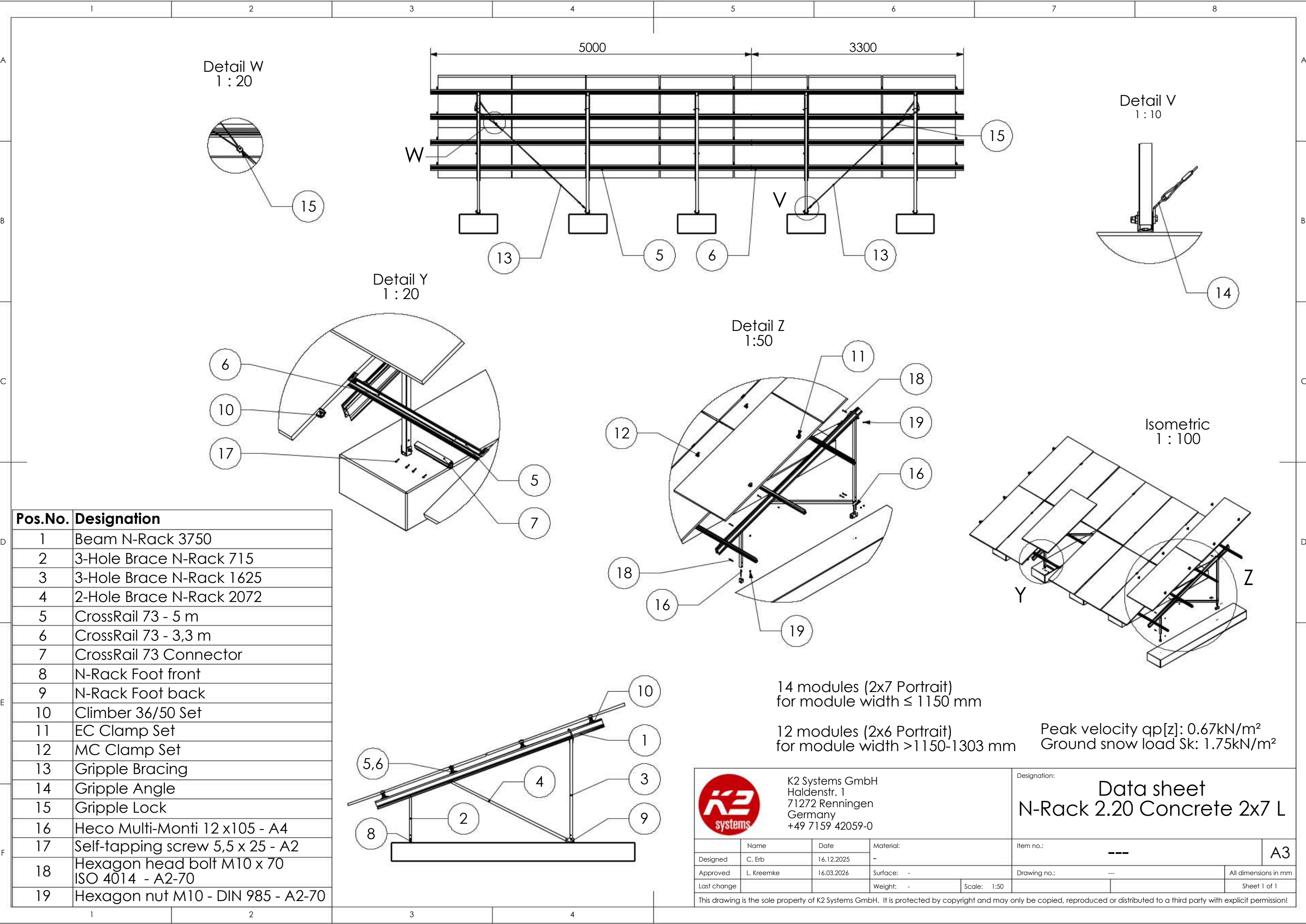


Designation:	Data sheet N-Rack 2.20 Concrete 2x7 S
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	Name	Date	Material:		Item no.: ---		A3
Designed	C. Erb	18.12.2025	-				
Approved	L. Kreemke	16.03.2026	Surface: -		Drawing no.: ---		All dimensions in mm
Last change			Weight: -	Scale: 1:50			Sheet 1 of 1

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Pos.No.	Designation
1	Beam N-Rack 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 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



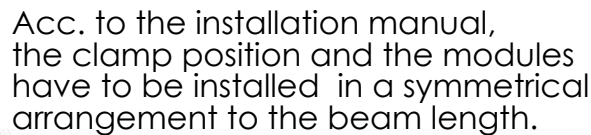
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Designation:		Data sheet	
		N-Rack 2.20 Concrete 2x7 L	
Item no.:	---	A3	
Drawing no.:	---	All dimensions in mm	
Last change		Scale: 1:50	Sheet 1 of 1

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Concrete Kit 2x12 S

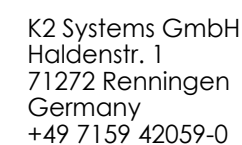
Technical drawing of a concrete beam with dimensions and reinforcement details. The drawing shows a cross-section of the beam with a total width of 14100. The beam is supported by six rectangular supports. The distance between the first and second support is 4550, and the distance between the last two supports is 4550. The total length of the beam is 14100. The drawing also shows the reinforcement details, including the number of bars (19) and the spacing (1038-1150). The beam is labeled with 'min. 45' at the ends and 'X' in the middle. The drawing includes a coordinate system with 'X' and 'Y' axes. The drawing also shows the distance from the center of the beam to the center of the first support (e=2410) and the distance from the center of the beam to the center of the last support (5x2410 = 12050). The drawing also shows the distance from the center of the beam to the center of the first support (k=1025) and the distance from the center of the beam to the center of the last support (1025).



Isometric
1 : 100

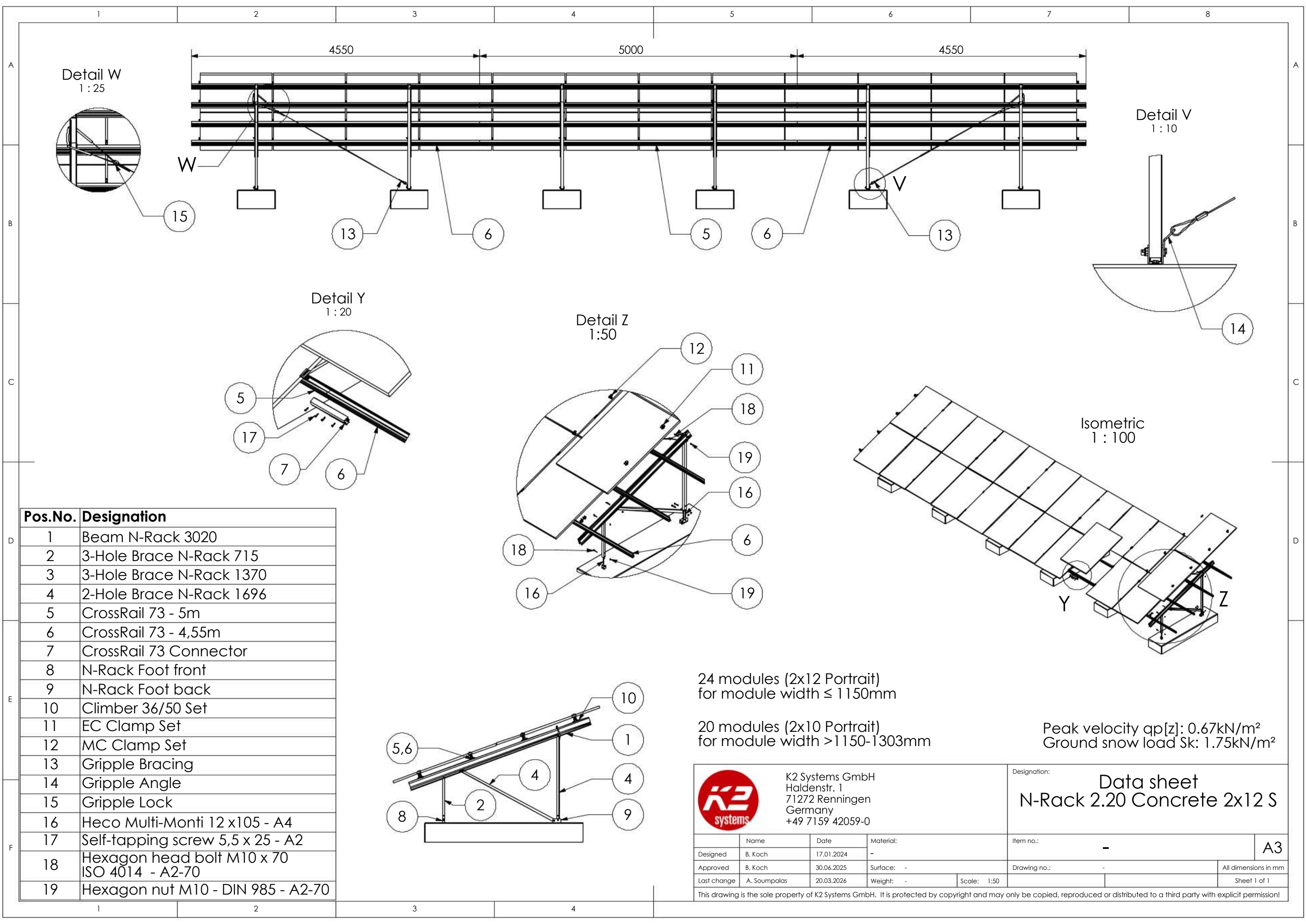
This isometric drawing shows a long, narrow roof structure. It features a grid of rafters, with a central longitudinal line and several transverse lines. The structure is supported by a series of rectangular blocks or piers along its length. The drawing is labeled 'Isometric' and '1 : 100'.

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



Designation: Data sheet
N-Rack 2.20 Concrete 2x12 S

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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 - 5m
6	CrossRail 73 - 4,55m
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

K2 systems K2 Systems GmbH Haldenstr. 1 71272 Renningen Germany +49 7159 42059-0	Designation: Data sheet N-Rack 2.20 Concrete 2x12 S		
		Item no.:	-
		A3	
Designed	B. Koch	Date	17.01.2024
Approved	B. Koch	Surface:	-
Last change	A. Soumpalas	Weight:	-
		Scale:	1:50
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min. 45



20

 $z=2500$

Isometric
1 : 100

This isometric drawing shows a roof structure composed of a grid of 10 by 6 rectangular panels. A central longitudinal ridge runs down the middle of the roof. The gable end on the left is supported by a thick structural beam. Small vertical elements, possibly vents or supports, are visible along the edges of the roof panels.

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

Designation:

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



--	--

Name

Date

Material:

Item no.:	
-----------	--

A3

Designed

M. Ayde

30.01.2024

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10

	AS
--	----

Approved

B. Koch

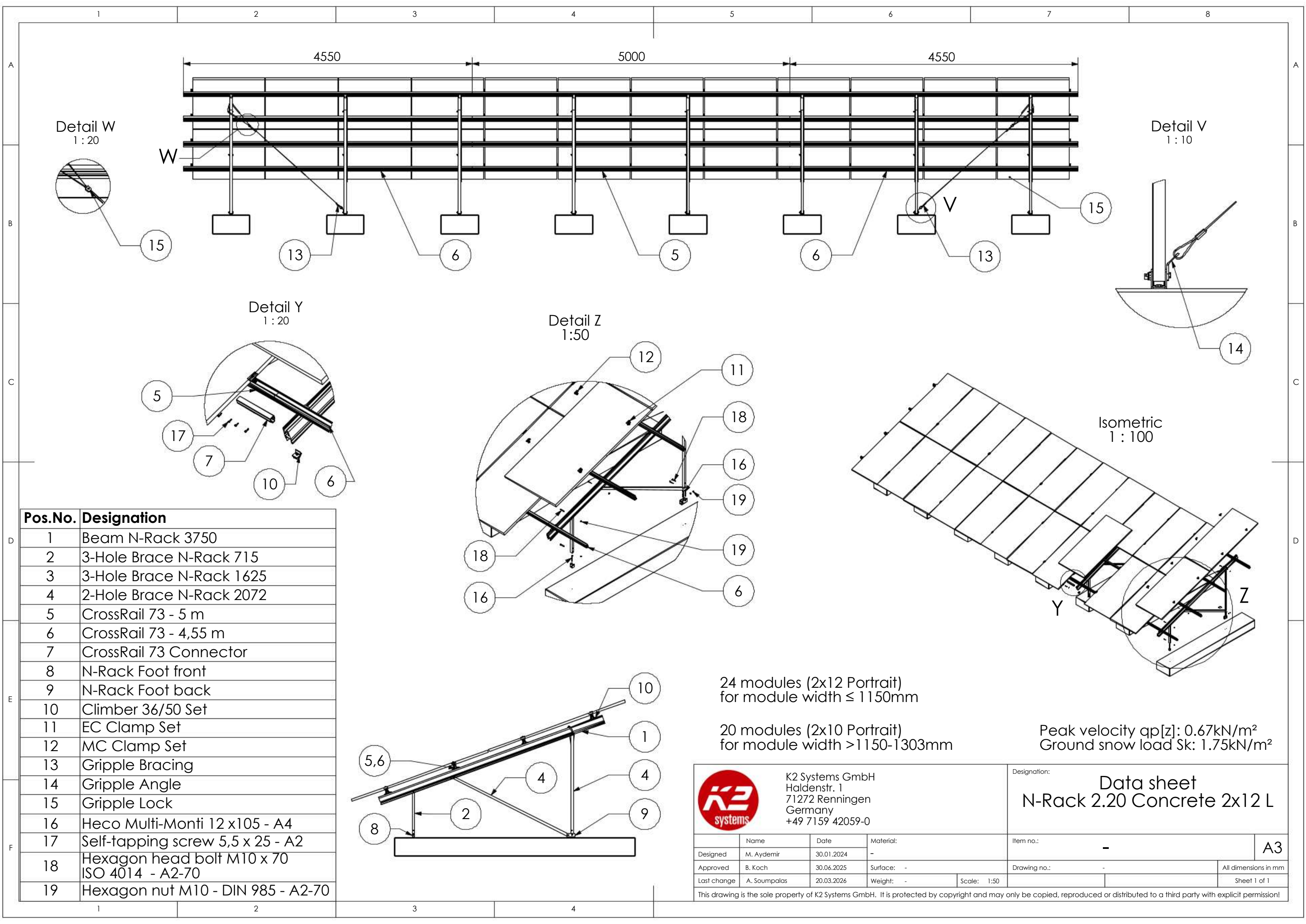
30.06.2025

Surface:

—

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



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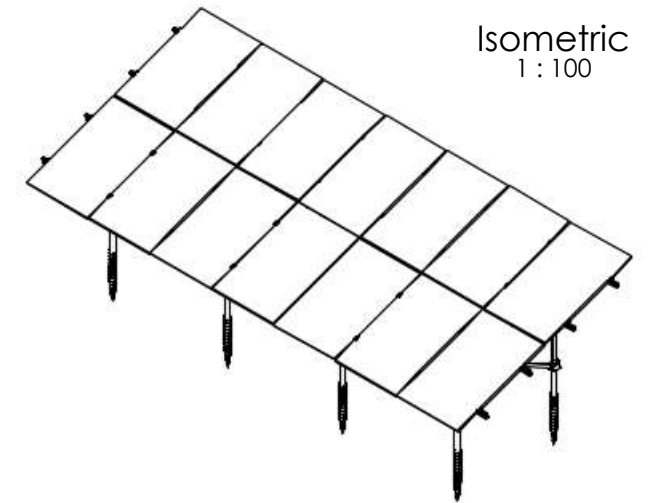
Designation:		Data sheet	
		N-Rack 2.20 Concrete 2x12 L	
Item no.:	-	A3	
Drawing no.:	-	All dimensions in mm	
		Sheet 1 of 1	

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Groundscrew Kit 2x7 S



Isometric
1 : 100



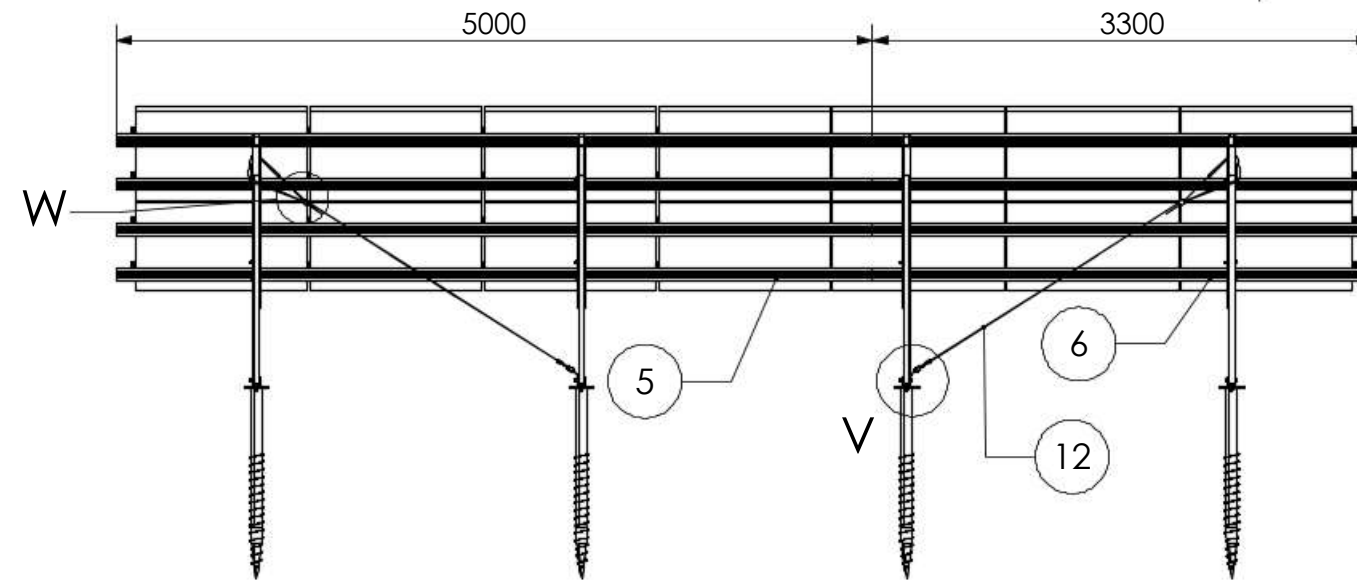
Peak velocity qp[z]: 0.67kN/m²
Ground snow load Sk: 1.75kN/m²



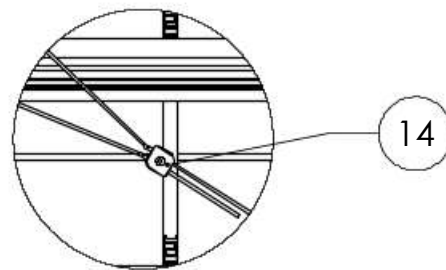
Designation: **Data sheet**
N-Rack 2.20 Groundscrew 2x7 S

	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

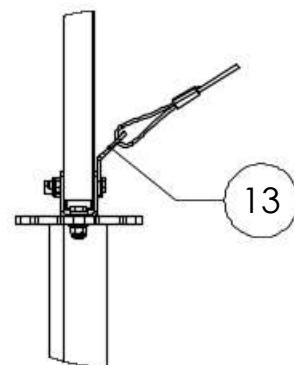
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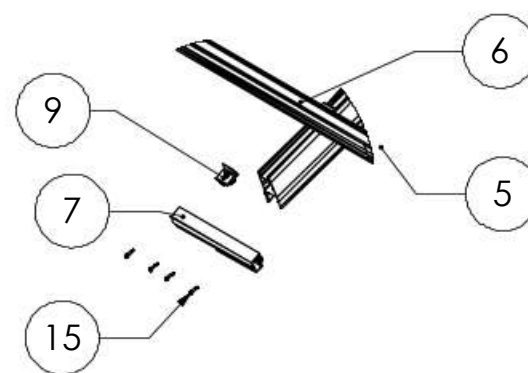
Detail W
1:10



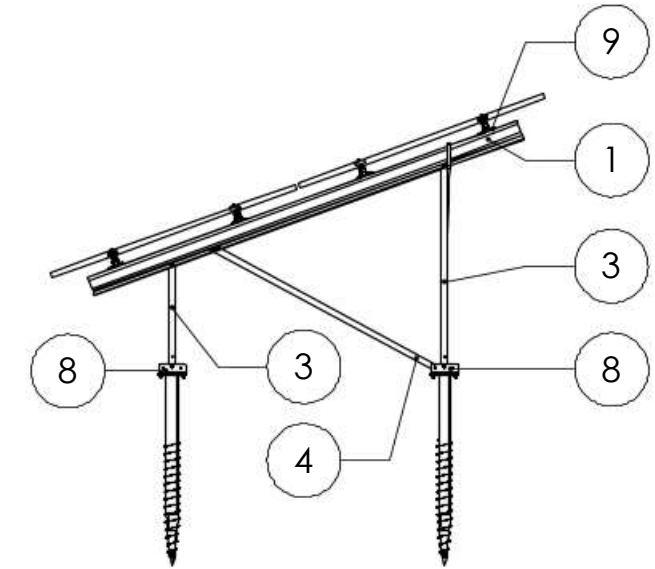
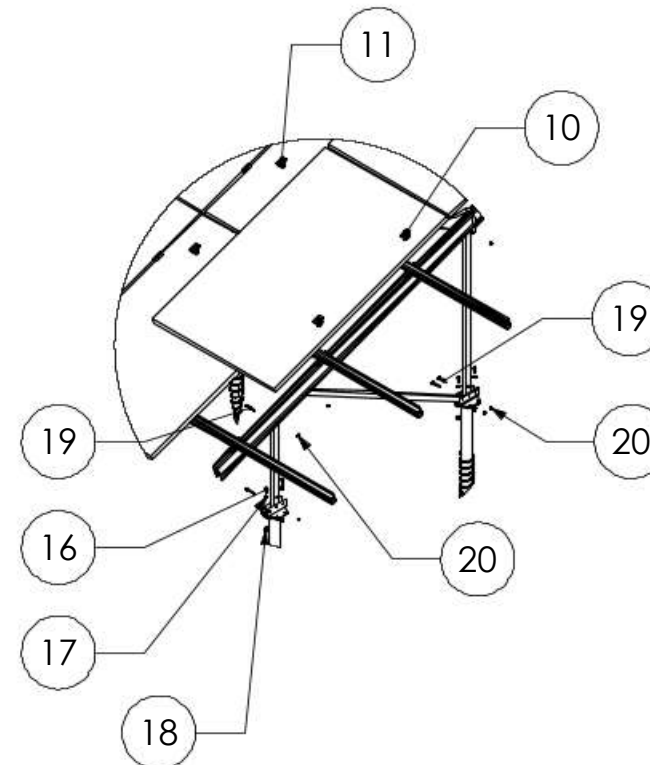
Detail V
1:10



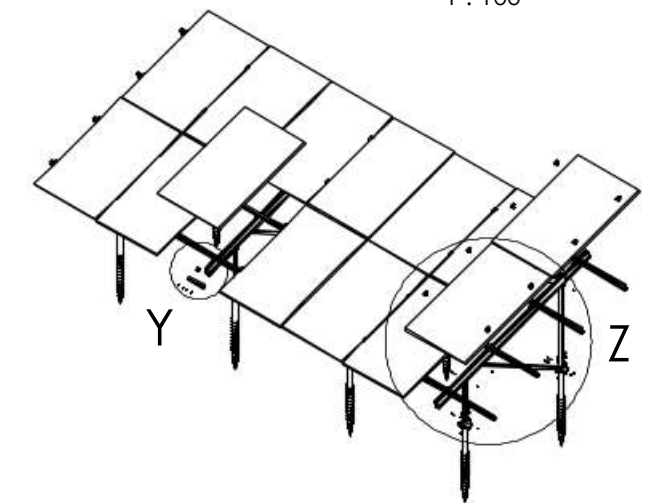
Detail Y
1:20



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

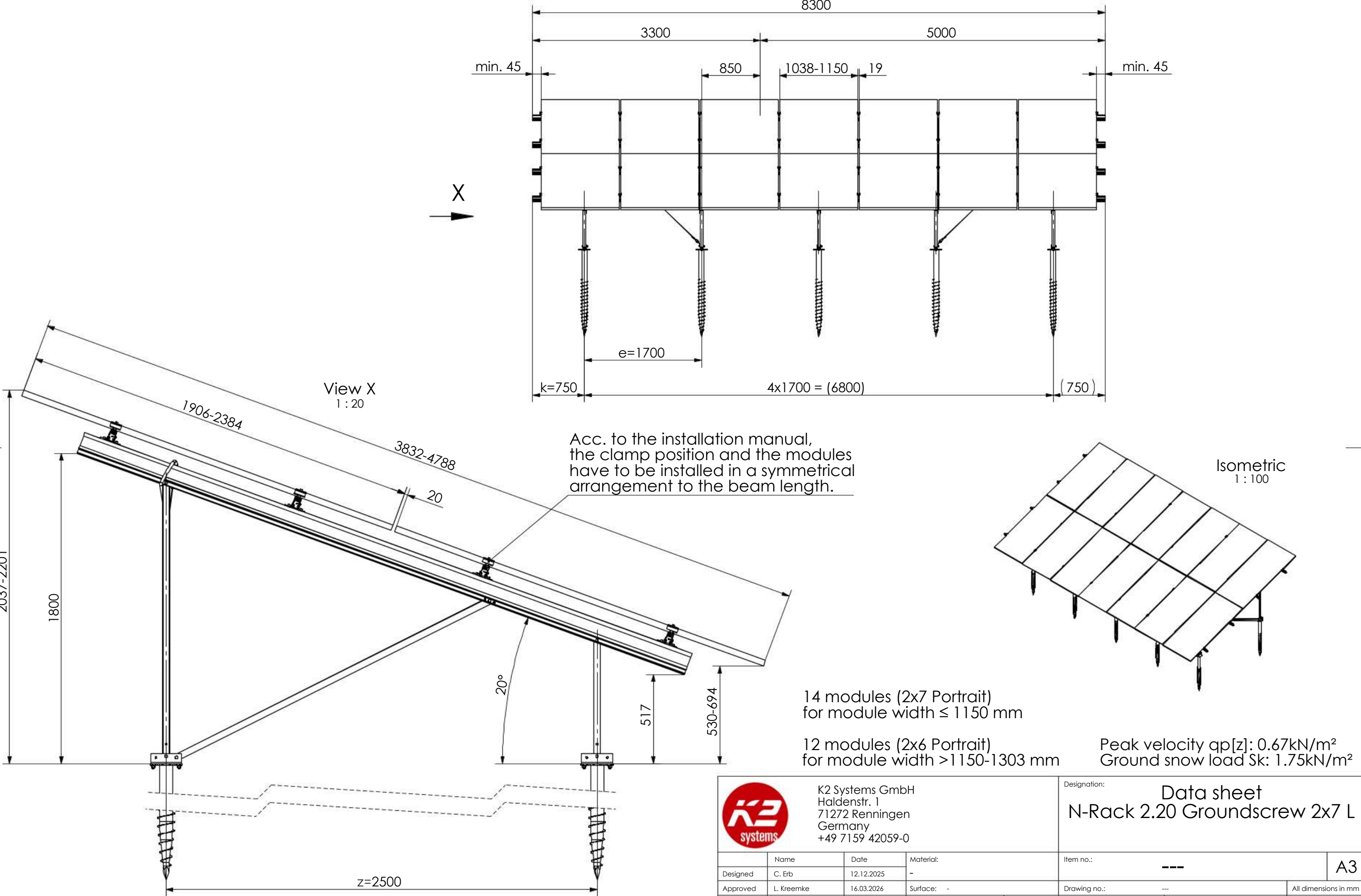


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Designation: N-Rack 2.20 Groundscrew 2x7 S			
Name	Date	Material:	Item no.: ---
Designed C. Erb	15.12.2025	-	A3
Approved L. Kreemke	16.03.2026	Surface: -	Drawing no.: ---
Last change		Weight: -	Scale: 1:50
All dimensions in mm			
Sheet 1 of 1			

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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

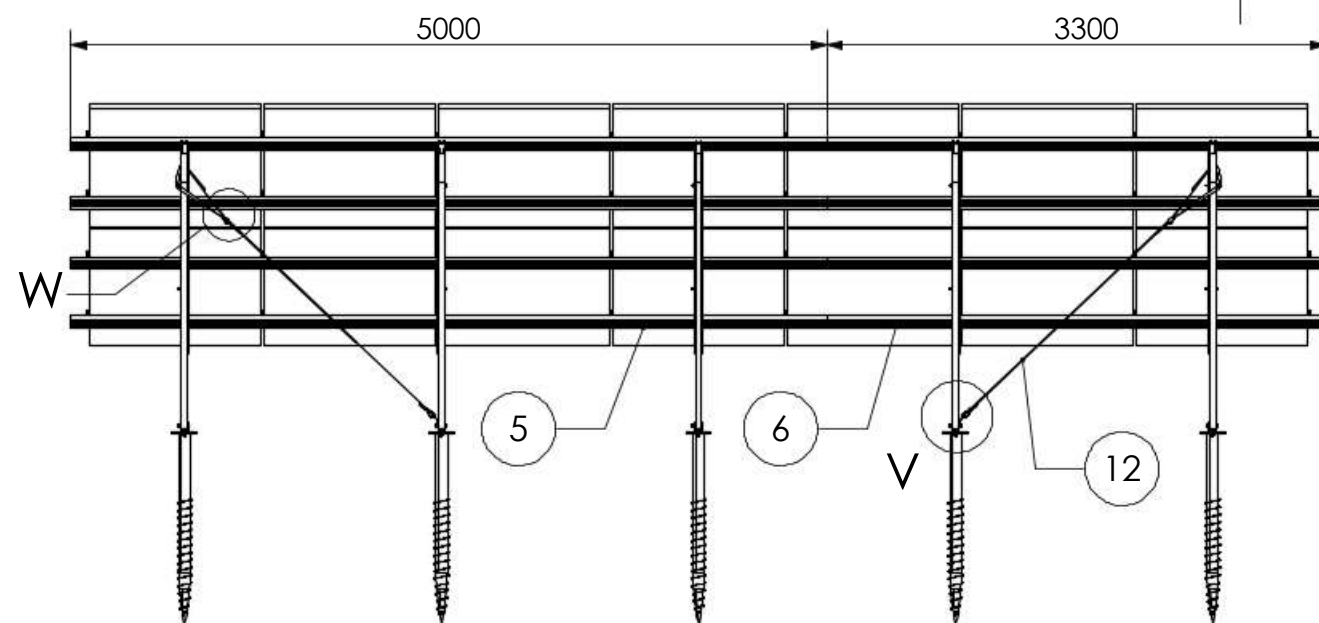


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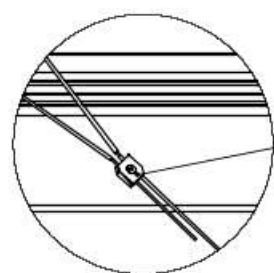
Designation: Data sheet
N-Rack 2.20 Groundscrew 2x7 L

	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

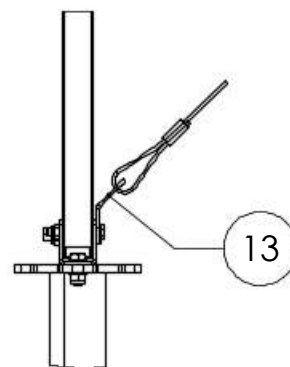
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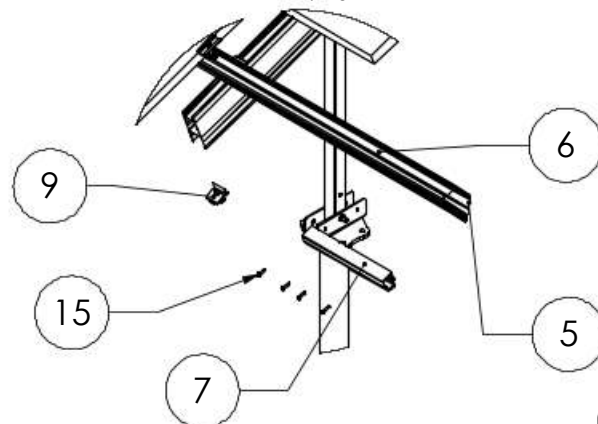
Detail W
1 : 10



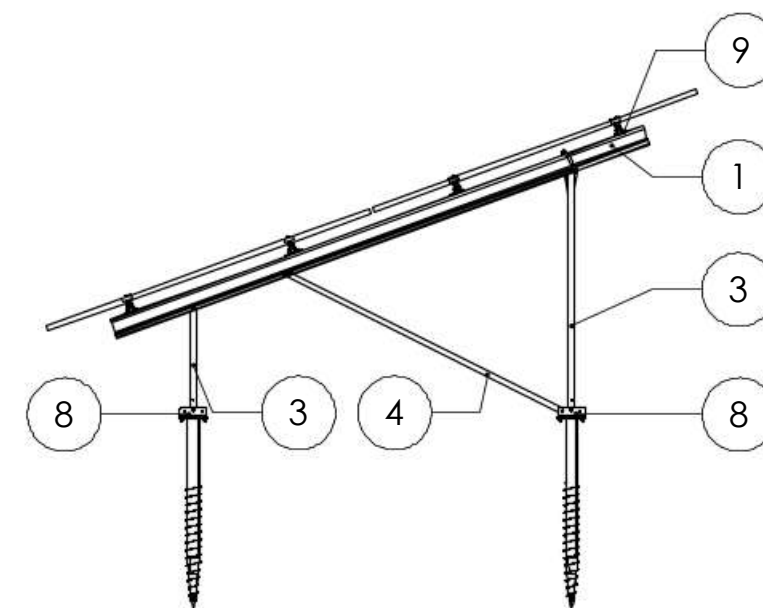
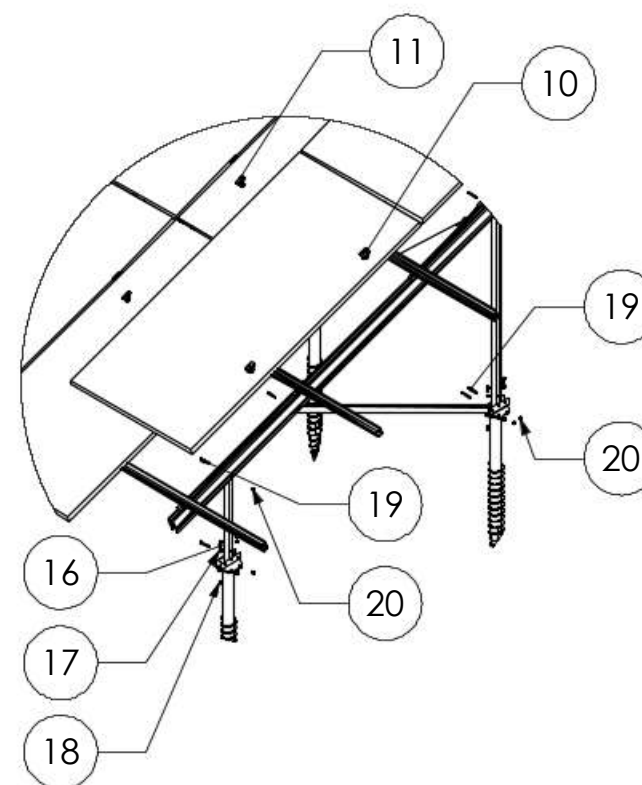
Detail V
1 : 10



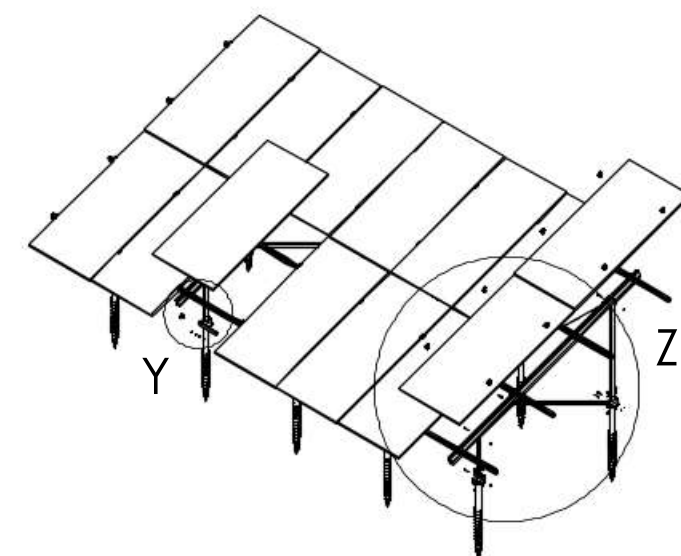
Detail Y
1 : 20



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



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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	---	
Last change		Weight: -	Scale: 1:50	
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Groundscrew Kit 2x12 S

The drawing includes three main views:

- Top View:** Shows a rectangular array of modules. Total width is 14100 mm, divided into two sections of 4550 mm each with a central gap of 5000 mm. Module pitch is e=2410 mm. Spacing between screw groups is k=1025 mm. Minimum edge distance is min. 45 mm.
- View X (1:20):** A side elevation showing the module's profile. It indicates a height of 1842-1904 mm, a base height of 1548 mm, and a mounting angle of 20°. The distance from the ground to the mounting bracket is z=1800 mm.
- Isometric (1:100):** A perspective view of the entire assembly.

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

Name	Date	Material:
S. Frey	11.08.2025	-
B. Koch	01.10.2025	Surface: -
A. Soumpalas	20.03.2026	Weight: - Scale: 1:50

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

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

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Groundscrew Kit 2x12 S

The drawing includes three main views:

- Top View:** Shows a rectangular array of modules. Total width is 14100 mm, divided into two sections of 4550 mm each with a central gap of 5000 mm. Module pitch e = 2410 mm. Spacing k = 1025 mm. Minimum edge distance min. 45 mm.
- View X (1:20):** A side elevation showing the module's profile at a 20° angle. Dimensions include a height of 1842-1904 mm, a base offset of 1548 mm, and a vertical clearance of 566-629 mm. The horizontal distance between screw heads is z = 1800 mm.
- Isometric (1:100):** A perspective view of the entire assembly.

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

Name	Date	Material:
S. Frey	11.08.2025	-
B. Koch	01.10.2025	Surface: -
A. Soumpalas	20.03.2026	Weight: - Scale: 1:50

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

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

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Groundscrew Kit 2x12 S

The drawing includes three main views:

- Top View:** Shows a rectangular array of modules. Dimensions include a total width of 14100 mm, divided into sections of 4550 mm, 5000 mm, and 4550 mm. A central section has dimensions 1115 mm, 1038-1150 mm, and 19 mm. The distance between module centers is e=2410 mm. The distance from the edge to the first module center is k=1025 mm. The total length is 5x2410 = 12050 mm. Minimum clearance at the ends is min. 45 mm.
- View X (1:20):** A side elevation showing the beam profile and the installation angle of 20°. It indicates a height of 1842-1904 mm and a vertical offset of 1548 mm. The beam length is 1722-1905 mm, and the distance between mounting points is 3464-3830 mm. The vertical distance from the ground to the bottom of the beam is 515 mm, and the total height from the ground to the top of the beam is 566-629 mm. The depth of the beam is z=1800 mm.
- Isometric (1:100):** A perspective view of the entire assembly.

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

Name	Date	Material:
S. Frey	11.08.2025	-
B. Koch	01.10.2025	Surface: -
A. Soumpalas	20.03.2026	Weight: - Scale: 1:50

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

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

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Groundscrew Kit 2x12 S

Top View: Shows the layout of the kit with a total length of 14100 mm. It includes dimensions for module spacing (4550 mm), a central gap (5000 mm), and individual module dimensions (1115 mm, 1038-1150 mm, 19 mm). The distance between screw heads is e=2410 mm, and the distance from the edge to the first screw is k=1025 mm. The total width of the screw heads is 5x2410= (12050) mm. Minimum edge distances of 45 mm are indicated.

View X (1:20): A side view showing the beam profile and the installation of the groundscrews. The beam length is 1722-1905 mm, and the distance between screw heads is 3464-3830 mm. The beam is inclined at 20°. The height of the beam is 1842-1904 mm, and the height of the screw head is 1548 mm. The distance from the beam to the screw head is 515 mm, and the total height of the screw head is 566-629 mm. The distance between the screw heads is z=1800 mm.

Isometric (1:100): A 3D perspective view of the kit showing the arrangement of the modules and the groundscrews.

Specifications:

- 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 kN/m²
- Ground snow load S_k : 1.75 kN/m²

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

Name	Date	Material:
Designed: S. Frey	11.08.2025	-
Approved: B. Koch	01.10.2025	Surface: -
Last change: A. Soumpalas	20.03.2026	Weight: -

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

Item no.: -
Drawing no.: -
Scale: 1:50

A3
All dimensions in mm
Sheet 1 of 1

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Groundscrew Kit 2x12 S

Top View: Shows the layout of the kit with a total length of 14100 mm. It includes dimensions for module spacing (4550 mm), a central gap (5000 mm), and individual module dimensions (1115 mm, 1038-1150 mm, 19 mm). The distance between screw heads is e=2410 mm, and the distance from the edge to the first screw is k=1025 mm. The total width of the screw heads is 5x2410= (12050) mm. Minimum clearance of 45 mm is indicated at the ends.

View X (1:20): A side view showing the beam profile and the installation of the groundscrews. The beam length is 1722-1905 mm, and the distance between screw heads is 3464-3830 mm. The beam is inclined at 20°. The vertical distance from the ground to the top of the beam is 1842-1904 mm, and the distance from the ground to the bottom of the beam is 1548 mm. The distance from the ground to the top of the screw head is 515 mm, and the distance from the ground to the bottom of the screw head is 566-629 mm. The distance between the screw heads is z=1800 mm.

Isometric (1:100): A 3D perspective view of the kit showing the arrangement of the modules and the groundscrews.

Specifications:

- 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 kN/m²
- Ground snow load S_k : 1.75 kN/m²

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

Name	Date	Material:
Designed: S. Frey	11.08.2025	-
Approved: B. Koch	01.10.2025	Surface: -
Last change: A. Soumpalas	20.03.2026	Weight: -

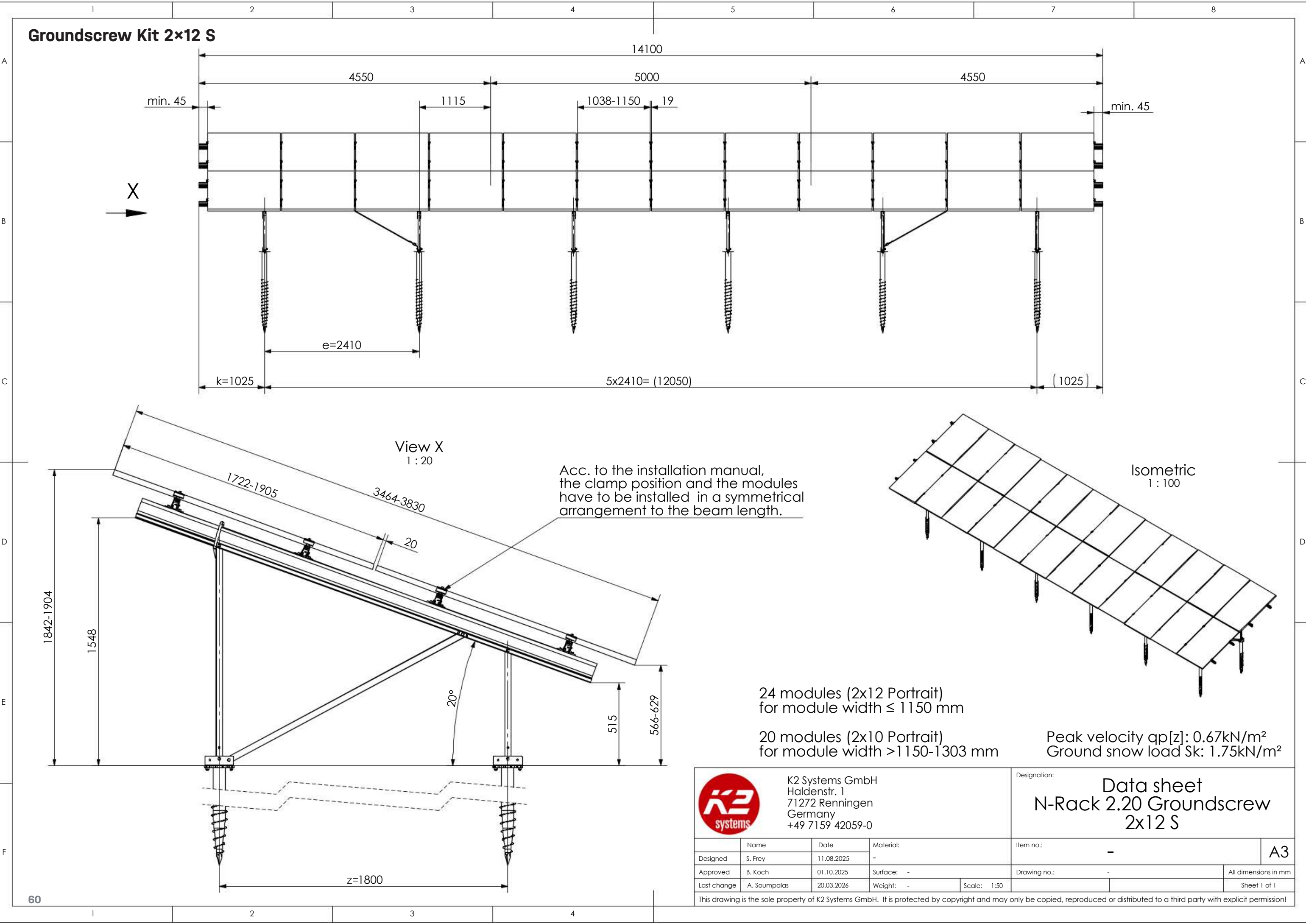
K2 Systems GmbH
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Designation:
Data sheet
N-Rack 2.20 Groundscrew
2x12 S

Item no.: -
Drawing no.: -
Scale: 1:50

A3
All dimensions in mm
Sheet 1 of 1

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Groundscrew Kit 2x12 S

Top View: Shows the layout of the kit with a total length of 14100 mm. It includes dimensions for module spacing (4550 mm), a central gap (5000 mm), and individual module dimensions (1115 mm, 1038-1150 mm, 19 mm). The distance between screw heads is e=2410 mm, and the distance from the edge to the first screw is k=1025 mm. The total width of the screw heads is 5x2410= (12050) mm. Minimum edge distances of 45 mm are indicated.

View X (1:20): A side view showing the kit's profile. It includes dimensions for the height of the beam (1842-1904 mm), the height of the screw head (1548 mm), the height of the screw (515 mm), and the height of the base (566-629 mm). The angle of the beam is 20°. The distance between the screw heads is z=1800 mm. The dimensions 1722-1905 and 3464-3830 are also shown.

Isometric (1:100): A 3D perspective view of the kit showing the arrangement of the modules and the screws.

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				Designation:	
Haldenstr. 1				N-Rack 2.20 Groundscrew	
71272 Renningen				2x12 S	
Germany					
+49 7159 42059-0					
K2 systems				Item no.: -	
Designed: S. Frey				A3	
Date: 11.08.2025					
Approved: B. Koch				Drawing no.: -	
Date: 01.10.2025				All dimensions in mm	
Last change: A. Soumpalas				Sheet 1 of 1	
Date: 20.03.2026					
Weight: -				Scale: 1:50	

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Groundscrew Kit 2x12 S

Top View: Shows the layout of the kit with a total length of 14100 mm. It includes dimensions for module spacing (4550 mm), individual module width (1115 mm), and a central gap (5000 mm). The distance between the first and last module is 1038-1150 mm, with a 19 mm offset. The minimum distance from the edge is 45 mm. The distance between the screw heads is e=2410 mm, and the distance from the edge to the first screw head is k=1025 mm. The total distance between the first and last screw head is 5x2410= (12050) mm, with a 1025 mm offset from the edge.

View X (1:20): A side view showing the kit's profile. The total height is 1842-1904 mm, with a base height of 1548 mm. The distance between the first and last module is 1722-1905 mm, and the distance between the first and last screw head is 3464-3830 mm. The distance between the first and last module is 20 mm. The distance between the first and last screw head is 515 mm. The distance between the first and last module is 566-629 mm. The distance between the first and last screw head is 20°.

Isometric (1:100): A 3D perspective view of the kit showing the arrangement of the modules and the screws.

Specifications:

- 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

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

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

	Name	Date	Material:
Designed	S. Frey	11.08.2025	-
Approved	B. Koch	01.10.2025	Surface: -
Last change	A. Soumpalas	20.03.2026	Weight: -

Scale: 1:50

Item no.: -

Drawing no.: -

Sheet 1 of 1

All dimensions in mm

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Groundscrew Kit 2x12 S

Top View: Shows the layout of the kit with a total length of 14100 mm. It includes dimensions for module spacing (4550 mm), individual module width (1115 mm), and a central gap (5000 mm). The distance between the first and last module is 1038-1150 mm, with a 19 mm offset. The minimum distance from the edge is 45 mm. The distance between the screw heads is e=2410 mm, and the distance from the edge to the first screw head is k=1025 mm. The total distance between the first and last screw head is 5x2410= (12050) mm, with a 1025 mm offset from the edge.

View X (1:20): A side view showing the kit's profile. The total height is 1842-1904 mm, with a base height of 1548 mm. The distance between the first and last module is 1722-1905 mm, and the distance between the first and last screw head is 3464-3830 mm. The distance between the first and last module is 20 mm. The distance between the first and last screw head is 515 mm. The distance between the first and last module is 566-629 mm. The distance between the first and last screw head is 20°.

Isometric (1:100): A 3D perspective view of the kit showing the arrangement of the modules and the screws.

Specifications:

- 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

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

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

	Name	Date	Material:
Designed	S. Frey	11.08.2025	-
Approved	B. Koch	01.10.2025	Surface: -
Last change	A. Soumpalas	20.03.2026	Weight: -

Scale: 1:50

Item no.: -

Drawing no.: -

Sheet 1 of 1

All dimensions in mm

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Groundscrew Kit 2x12 S

Top View: Shows the layout of the kit with a total length of 14100 mm. It includes dimensions for module spacing (4550 mm), individual module width (1115 mm), and a central gap (5000 mm). The distance between the first and last module is 1038-1150 mm, with a 19 mm offset. The minimum distance from the edge is 45 mm. The distance between the screw heads is e=2410 mm, and the distance from the edge to the first screw head is k=1025 mm. The total distance between the first and last screw head is 5x2410= (12050) mm, with a 1025 mm offset from the edge.

Side View (View X 1:20): Shows the profile of the kit with a height of 1842-1904 mm. The distance from the ground to the top of the module is 1548 mm. The distance from the ground to the top of the screw head is 515 mm. The distance from the ground to the top of the module is 566-629 mm. The distance from the ground to the top of the module is 1722-1905 mm. The distance from the ground to the top of the module is 3464-3830 mm. The distance from the ground to the top of the module is 20 mm. The distance from the ground to the top of the module is 20°.

Isometric View (1:100): Shows the 3D layout of the kit.

Specifications:

- 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

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

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

	Name	Date	Material:
Designed	S. Frey	11.08.2025	-
Approved	B. Koch	01.10.2025	Surface: -
Last change	A. Soumpalas	20.03.2026	Weight: -

Scale: 1:50

Item no.: -

Drawing no.: -

Sheet 1 of 1

All dimensions in mm

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Groundscrew Kit 2x12 S

Top View: Shows the layout of the kit with a total length of 14100 mm. It includes dimensions for module spacing (4550 mm), individual module width (1115 mm), and a central gap (5000 mm). The distance between the first and last module is 1038-1150 mm, with a 19 mm offset. The minimum distance from the edge is 45 mm. The distance between the screw heads is e=2410 mm, and the distance from the edge to the first screw head is k=1025 mm. The total distance between the first and last screw head is 5x2410= (12050) mm, with a 1025 mm offset from the edge.

Side View (View X 1:20): Shows the profile of the kit with a height of 1842-1904 mm. The distance from the ground to the top of the module is 1548 mm. The distance from the ground to the top of the screw head is 515 mm. The distance from the ground to the top of the module is 566-629 mm. The distance from the ground to the top of the module is 1722-1905 mm. The distance from the ground to the top of the module is 3464-3830 mm. The distance from the ground to the top of the module is 20 mm. The distance from the ground to the top of the module is 20°.

Isometric View (1:100): Shows the 3D layout of the kit.

Specifications:

- 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

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

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

	Name	Date	Material:
Designed	S. Frey	11.08.2025	-
Approved	B. Koch	01.10.2025	Surface: -
Last change	A. Soumpalas	20.03.2026	Weight: -

Scale: 1:50

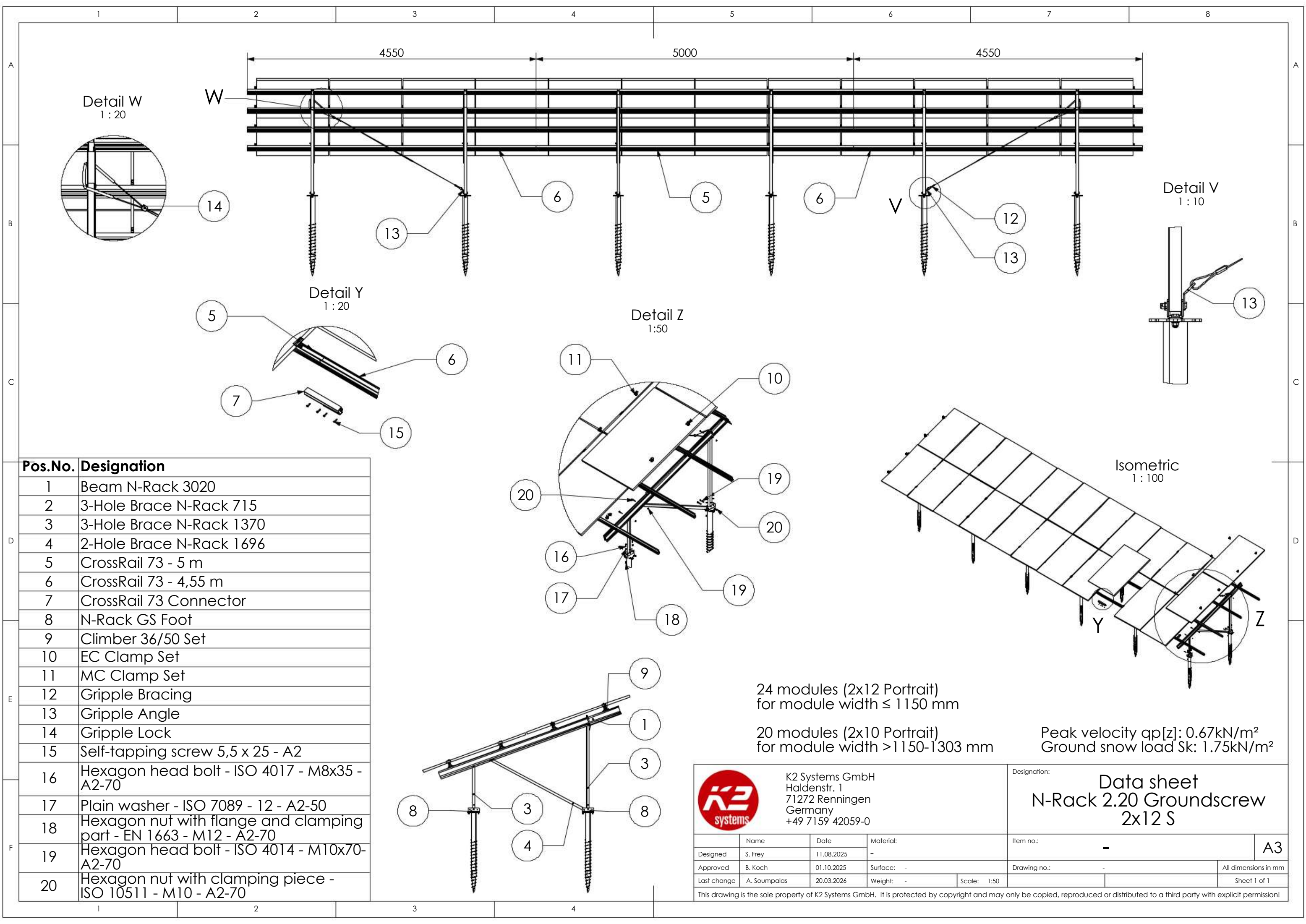
Item no.: -

Drawing no.: -

Sheet 1 of 1

All dimensions in mm

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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



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

	Name	Date	Material:
Designed	S. Frey	11.08.2025	-
Approved	B. Koch	01.10.2025	Surface: -
Last change	A. Soumpalas	20.03.2026	Weight: -
		Scale:	1:50

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Groundscrew Kit 2x12 L

14100

4550 5000 4550

min. 45 200 1038-1150 19

X

e=1800

k=750

7x1800 = (12600)

(750)

View X
1 : 20

1906-2384

3832-4788

20

20°

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

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

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

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

All dimensions in mm
Sheet 1 of 1

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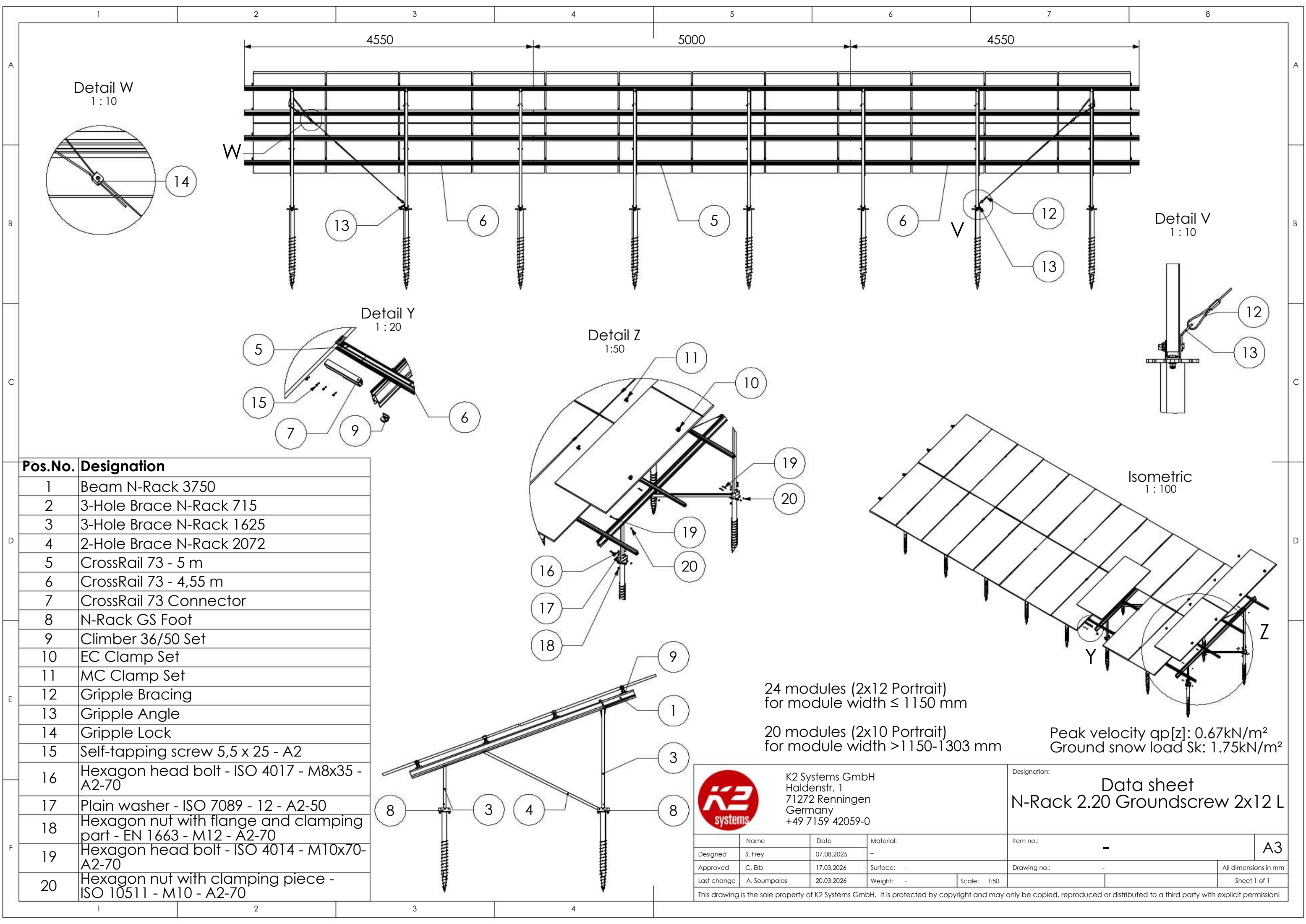


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Designation:	Data sheet N-Rack 2.20 Groundscrew 2x12 L
--------------	--

	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



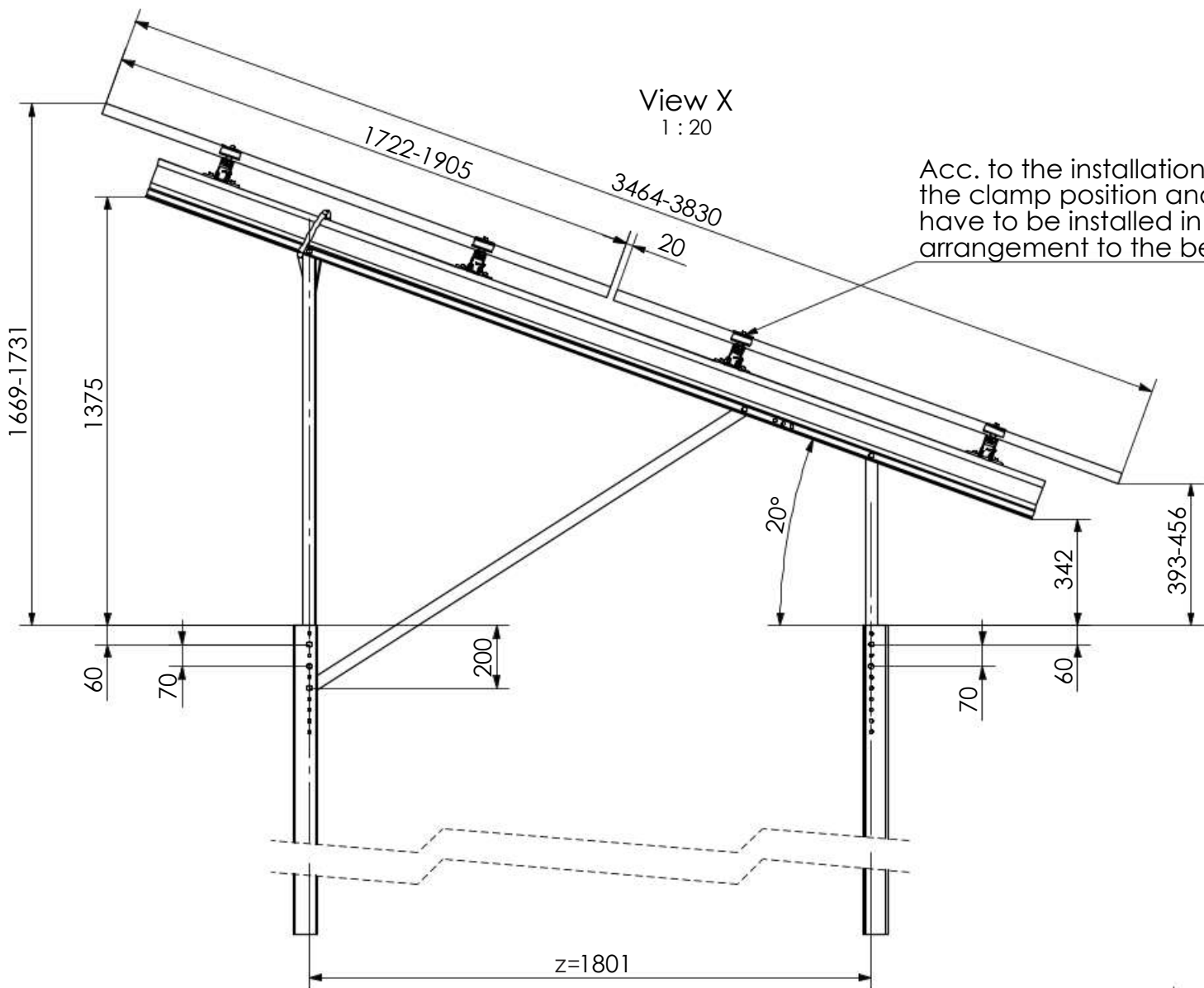
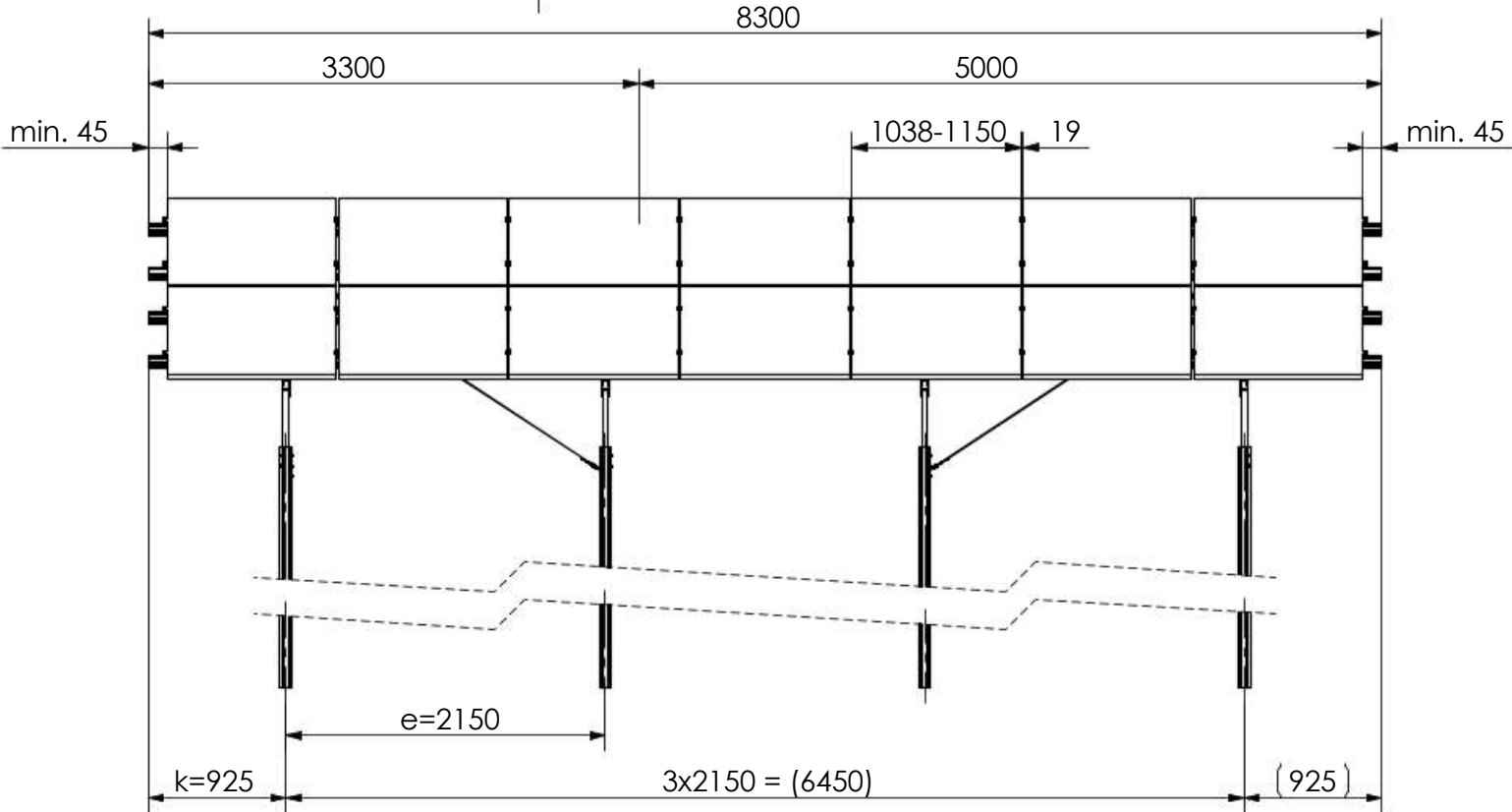
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Designation:		Data sheet	
		N-Rack 2.20 Groundscrew 2x12 L	
Item no.:	-	A3	
Drawing no.:	-	All dimensions in mm	
		Sheet 1 of 1	

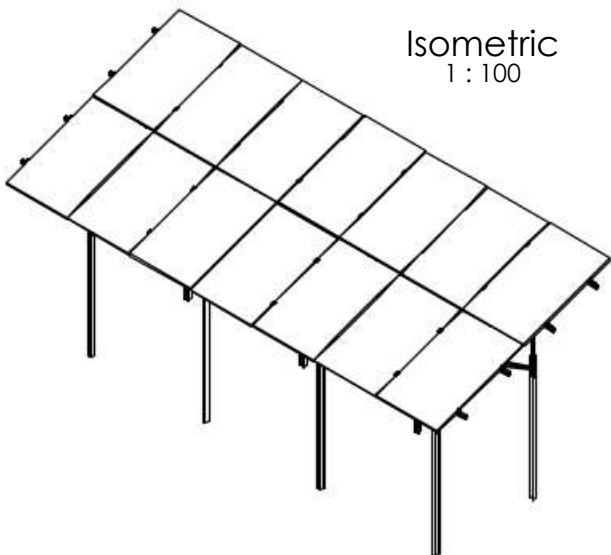
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Rammfundamente

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.



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



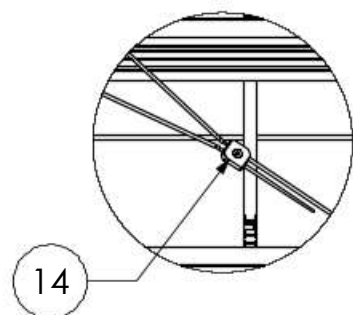
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Designation: **Data sheet**
N-Rack 2.20 Pile 2x7 S

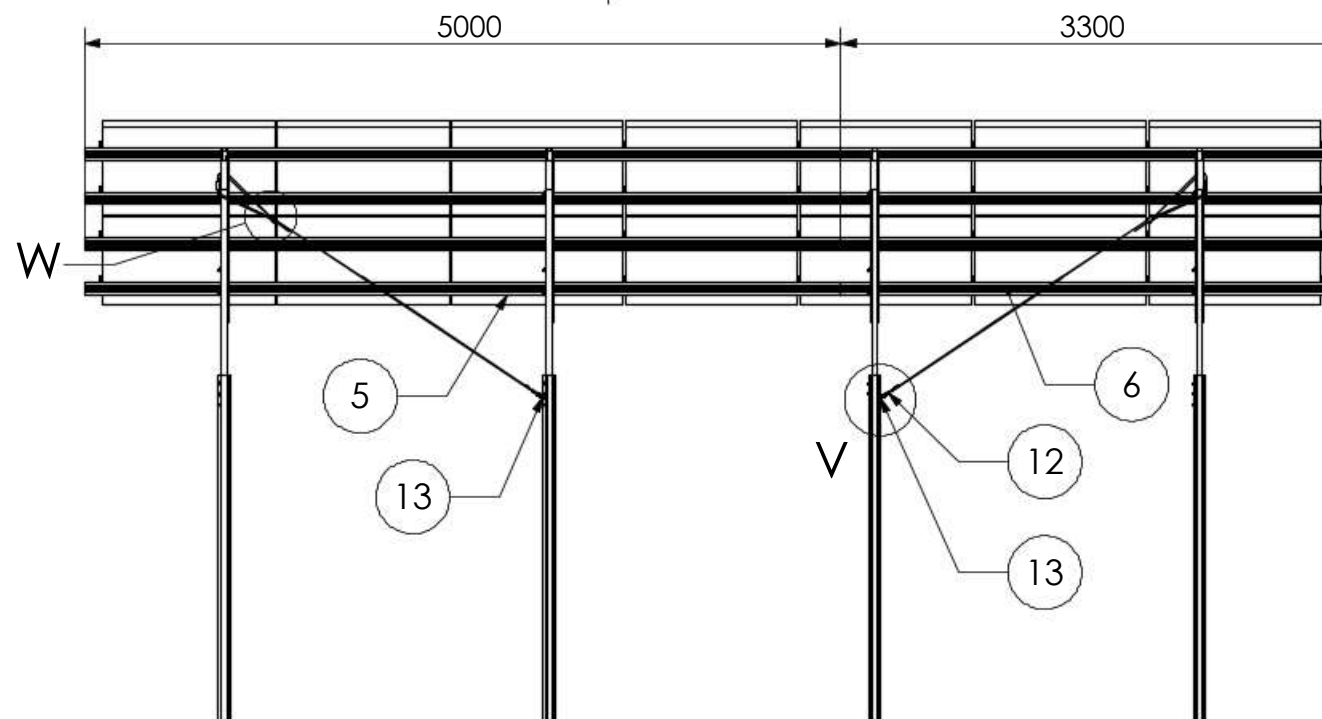
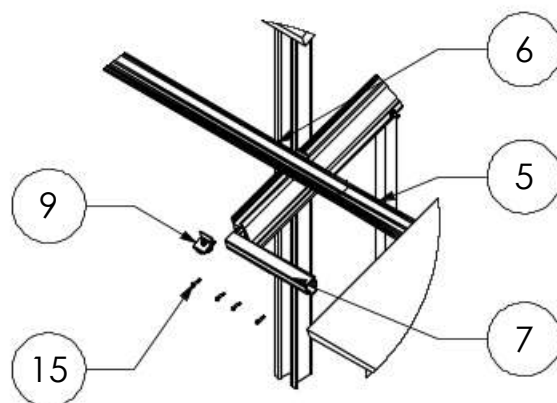
	Name	Date	Material:	Item no.:	-	A3
Designed	C. Erb	28.01.2026	-			
Approved	L. Kreemke	16.03.2026	Surface: -	Drawing no.:	-	All dimensions in mm
Last change			Weight: -	Scale: 1:50		Sheet 1 of 1

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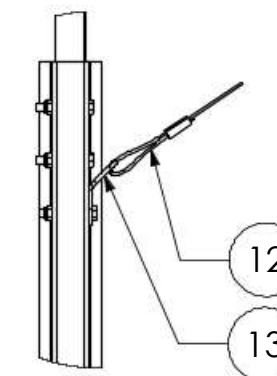
Detail W
1 : 10



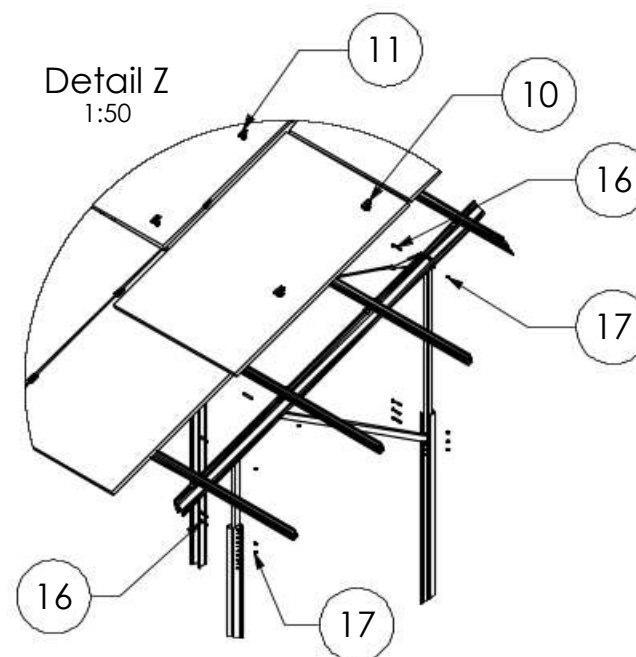
Detail Y
1 : 20



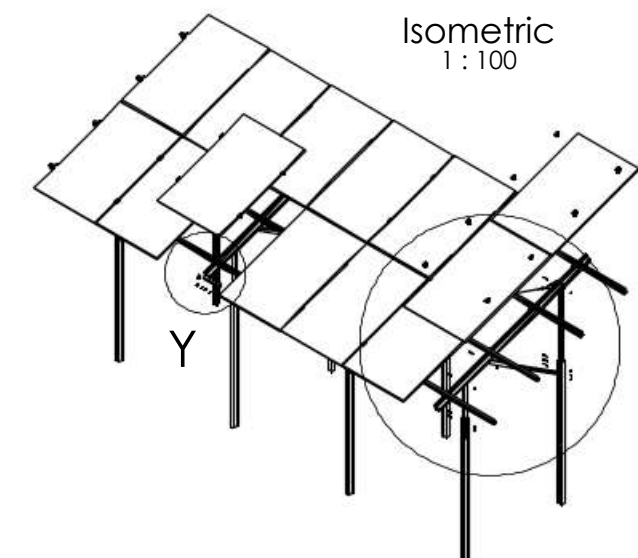
Detail V
1 : 10



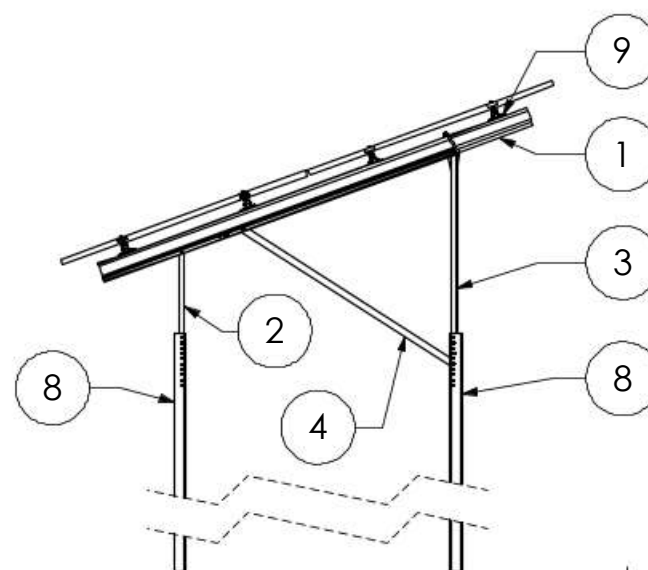
Detail Z
1 : 50



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	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



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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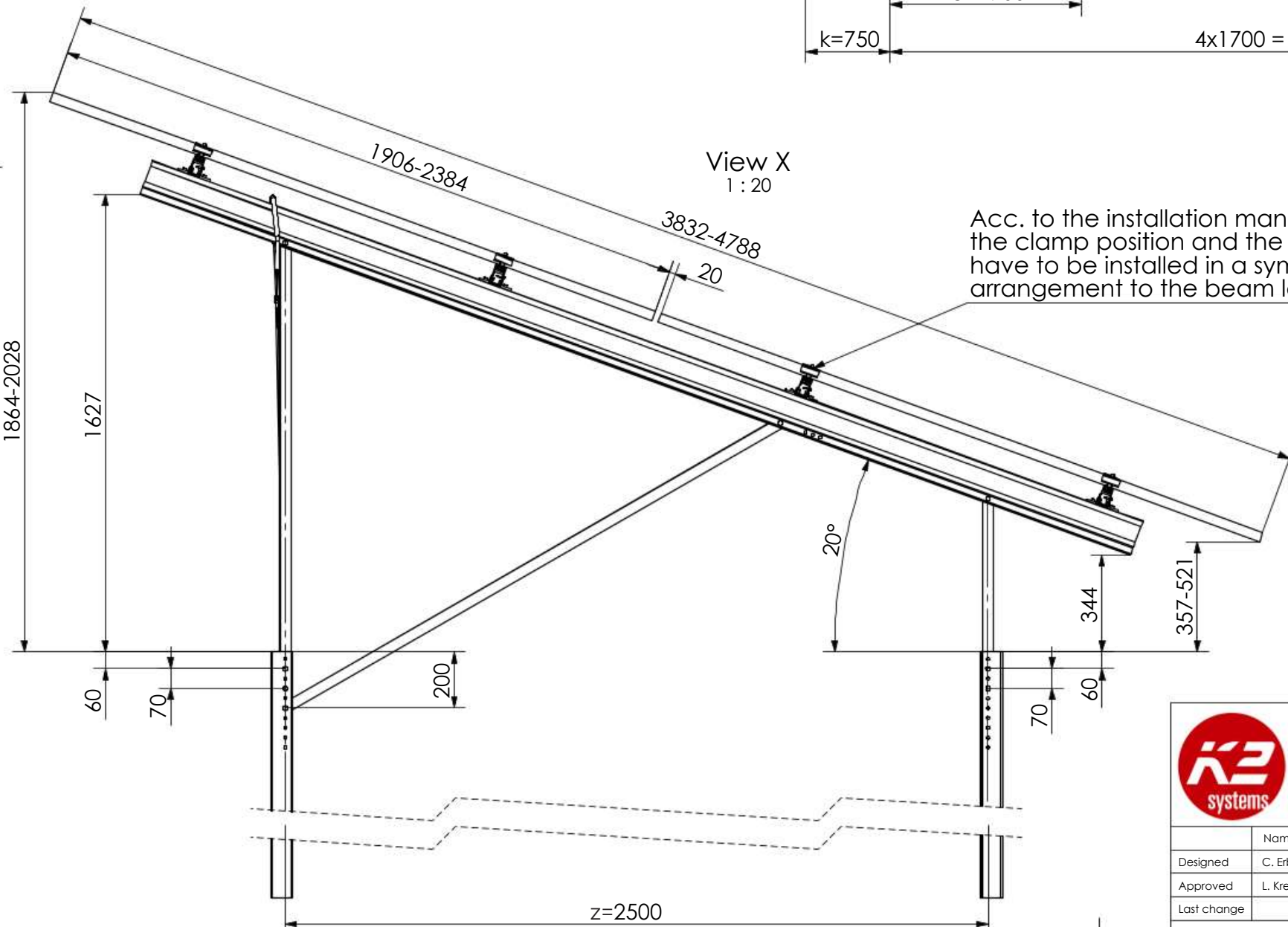
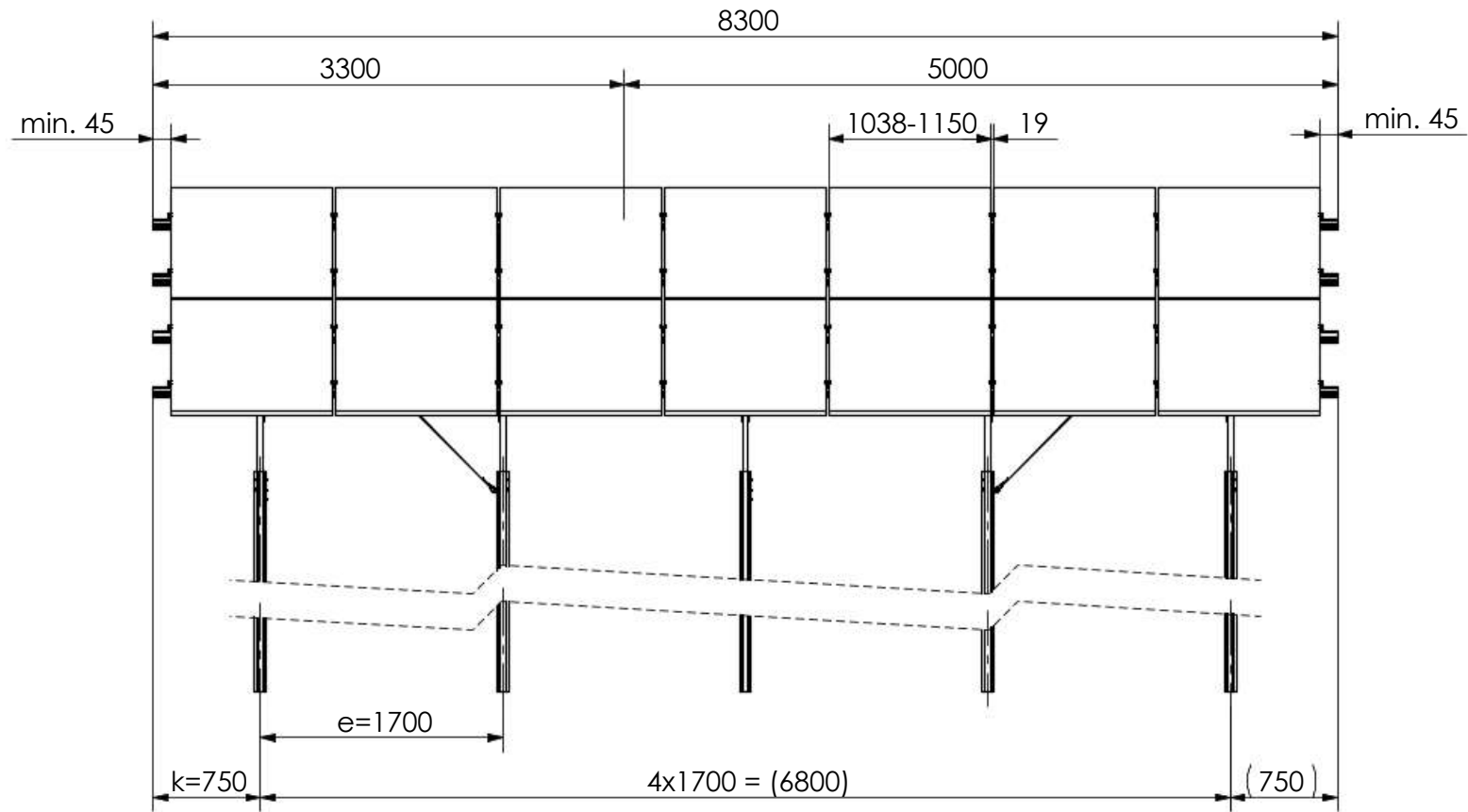
Designation:

Data sheet
N-Rack 2.20 Pile 2x7 S

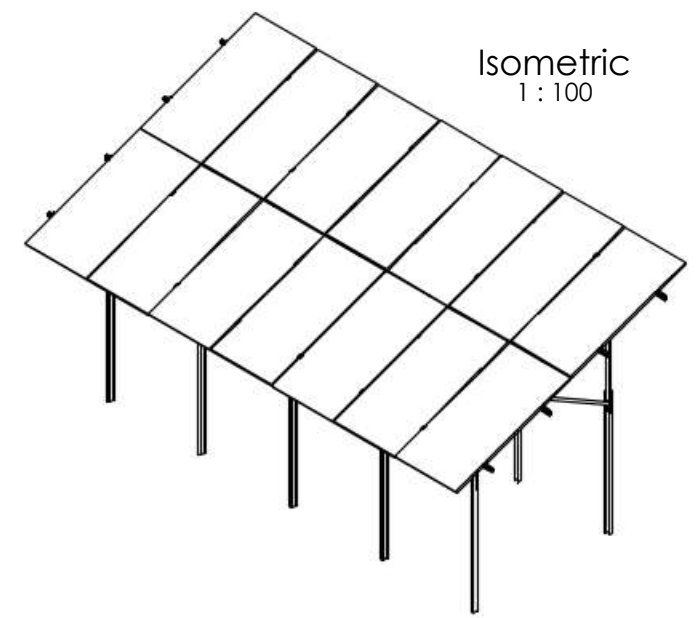
Name	Date	Material:	Item no.:	A3
Designed C. Erb	28.01.2026	-	-	
Approved L. Kreemke	16.03.2026	Surface: -	Drawing no.: -	All dimensions in mm
Last change		Weight: -	Scale: 1:50	Sheet 1 of 1

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Pile Kit 2x7 L



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

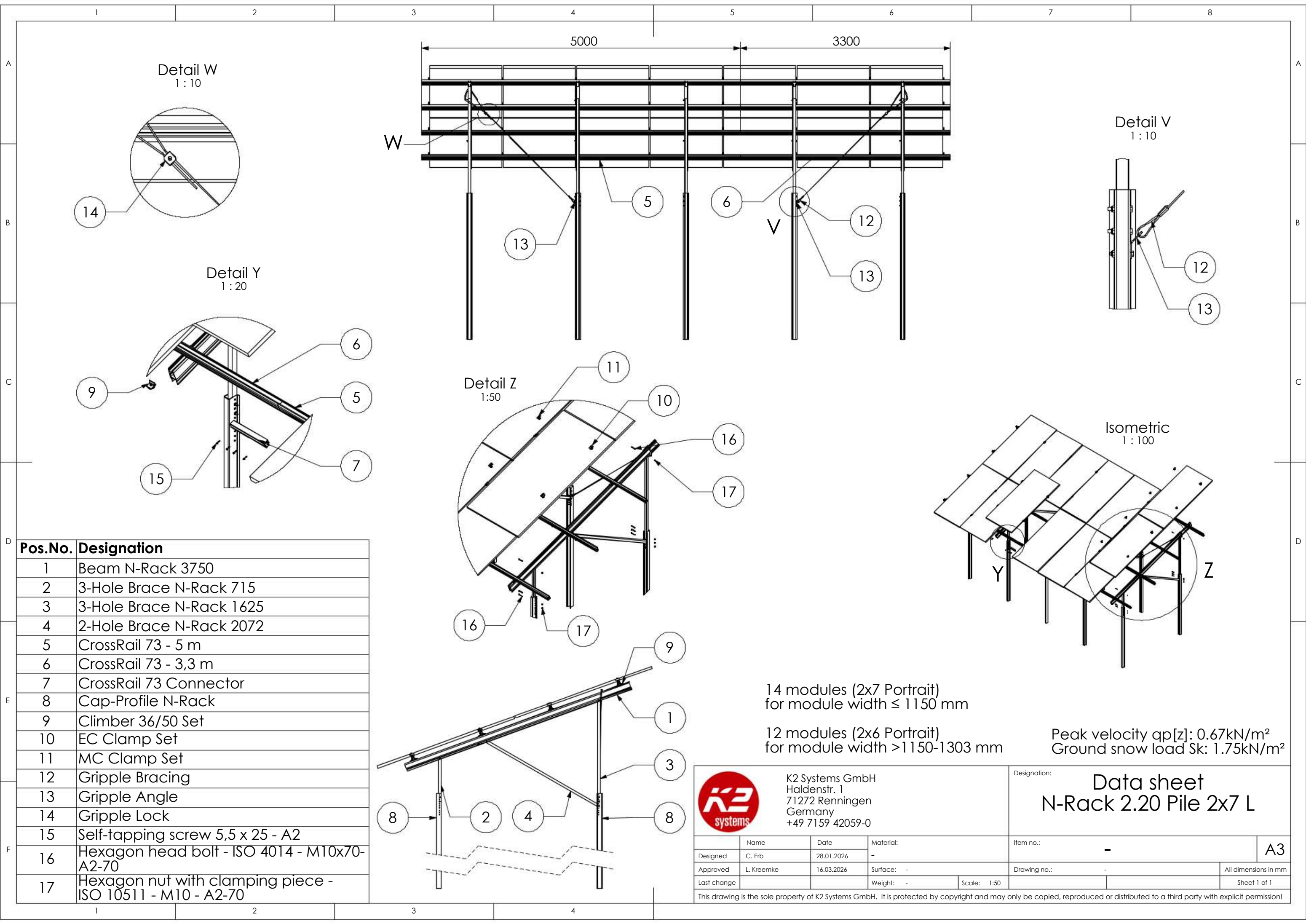
12 modules (2x6 Portrait)
for module width > 1150-1303 mm

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

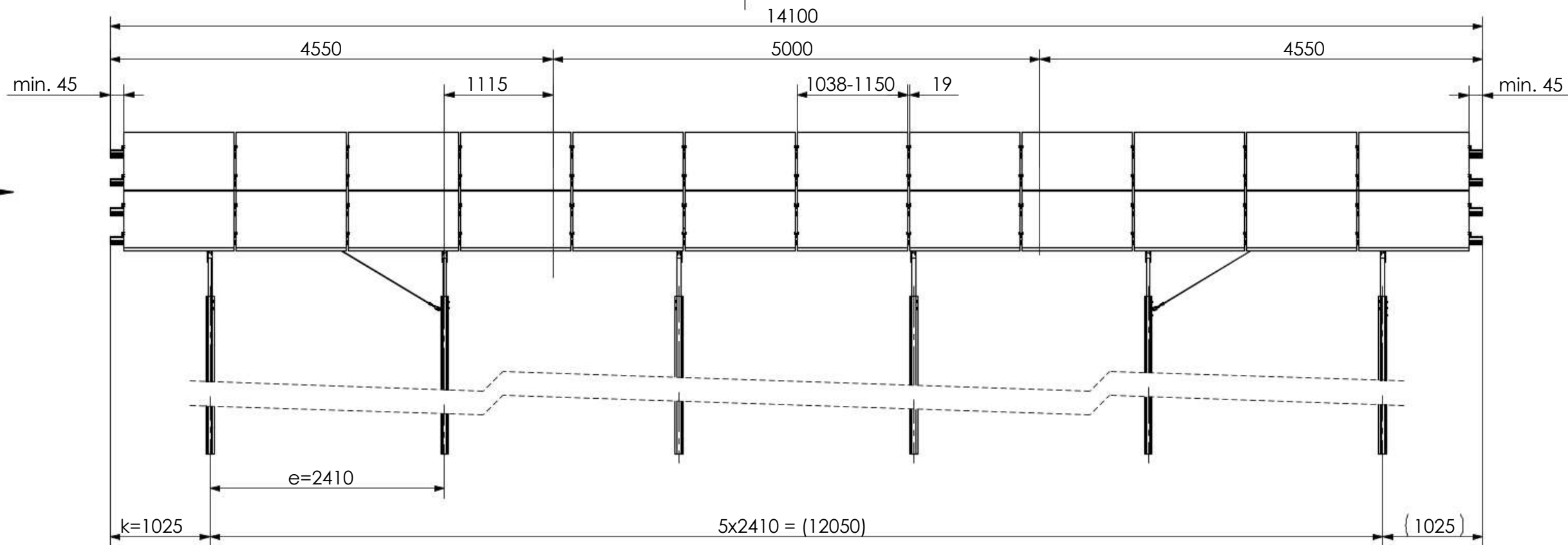


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Designation:				Data sheet N-Rack 2.20 Pile 2x7 L	
Item no.:				-	
Drawing no.:				-	
Scale:				1:50	
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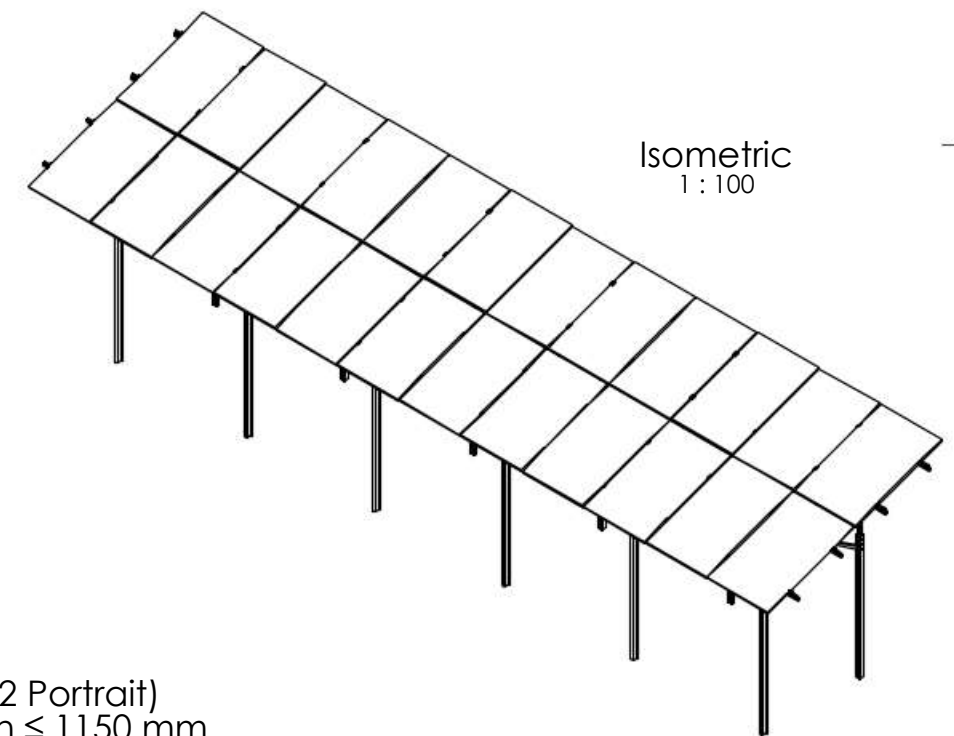


Pile Kit 2x12 S

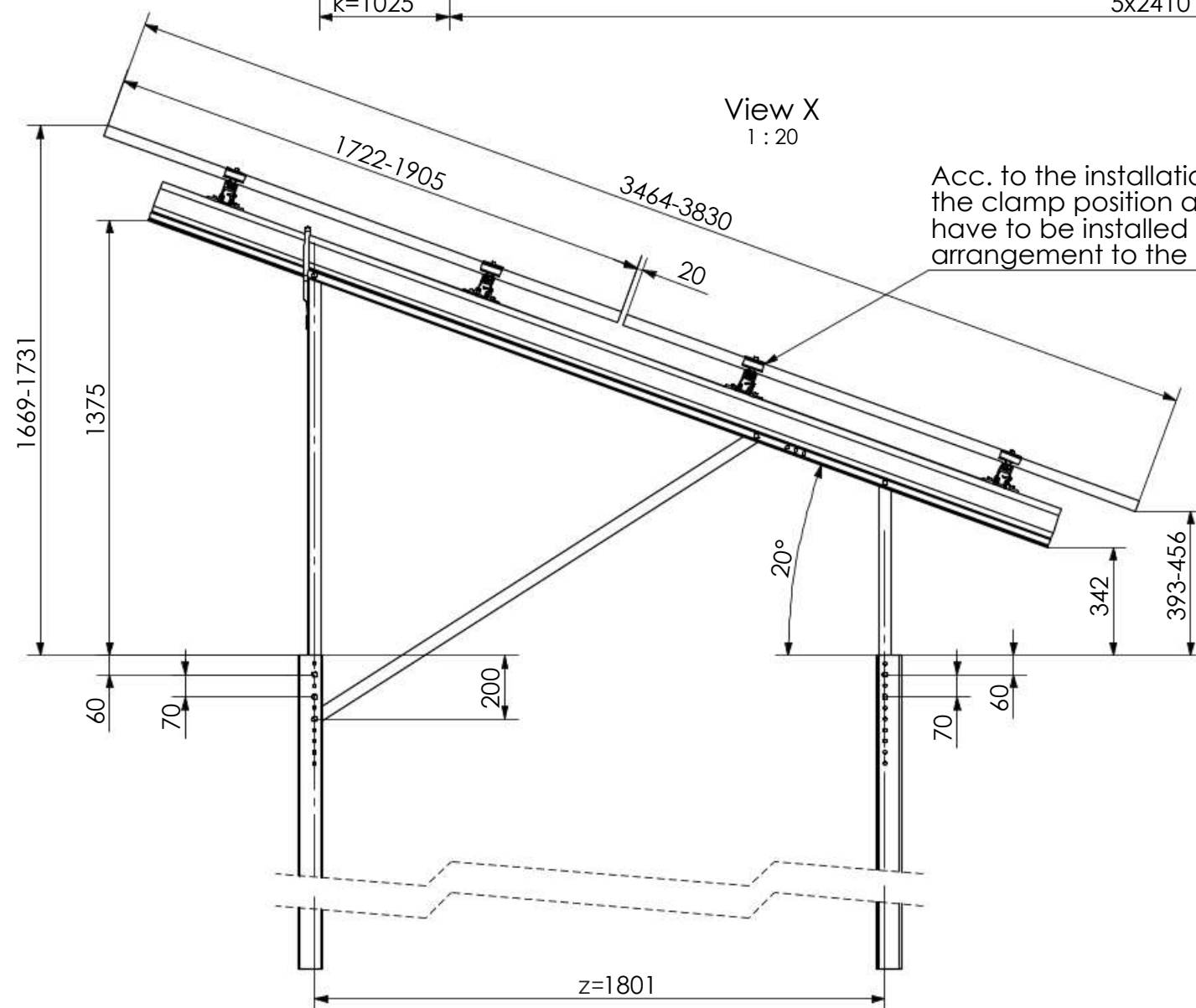


View X
1 : 20

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

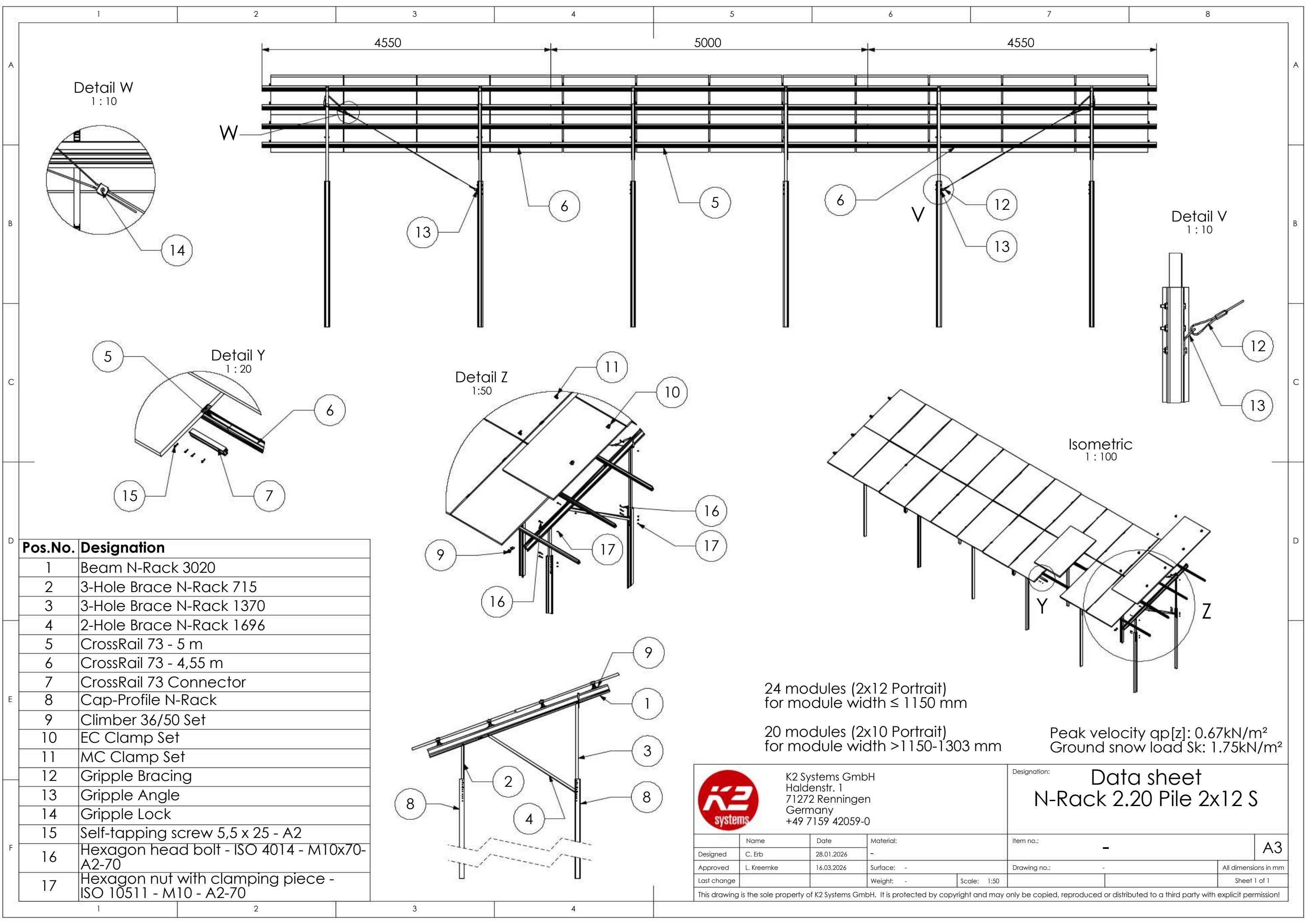


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Designation:
Data sheet
N-Rack 2.20 Pile 2x12 S

	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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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



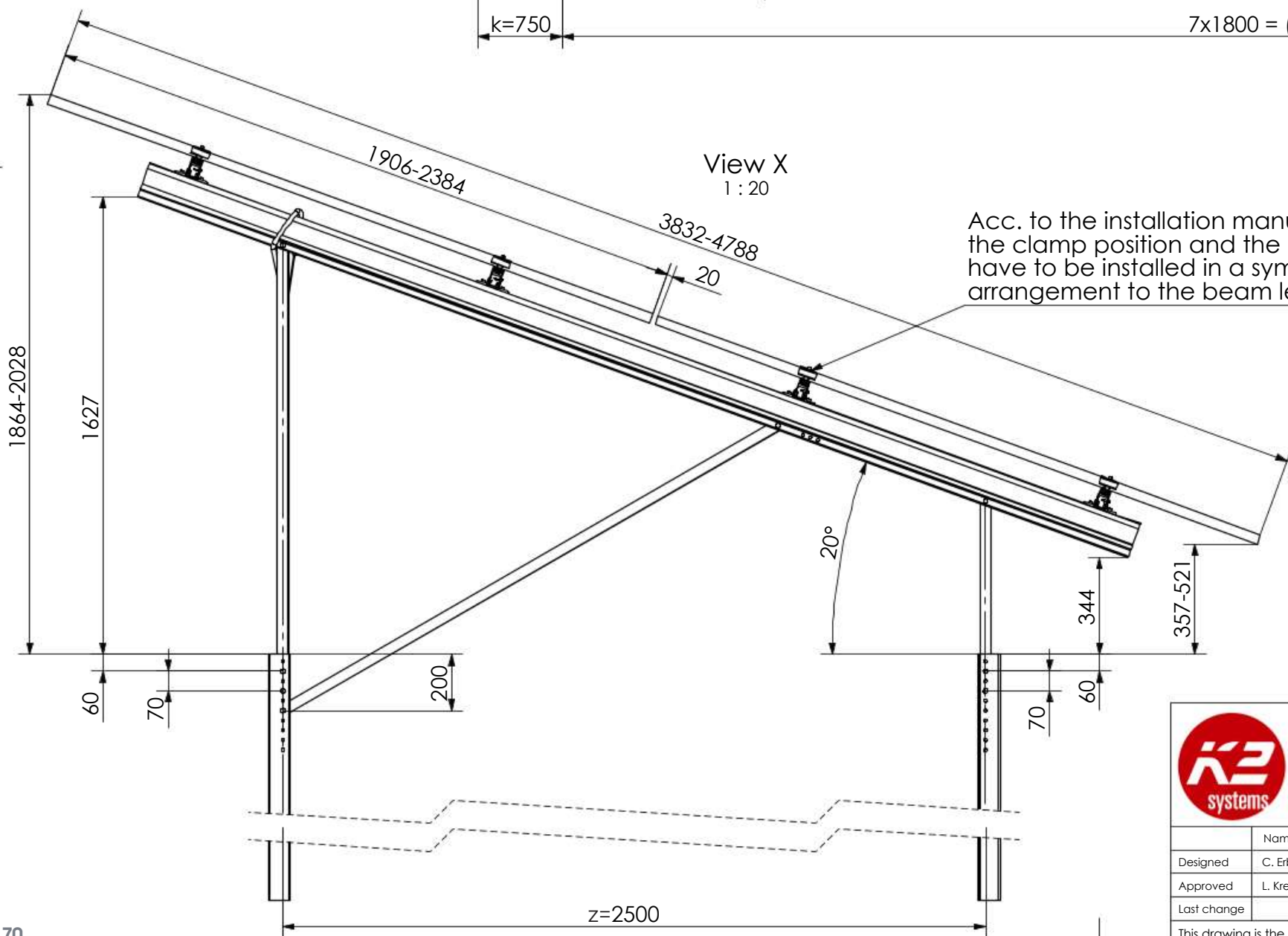
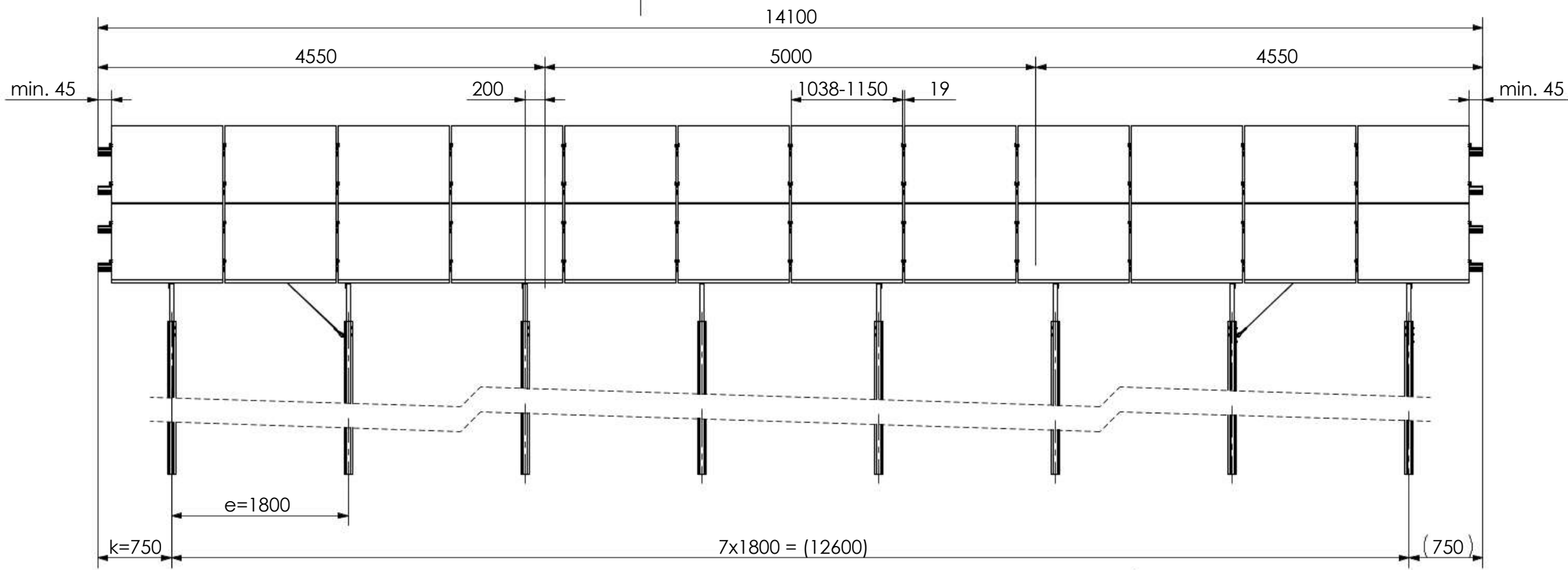
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	Name	Date	Material:
Designed	C. Erb	28.01.2026	-
Approved	L. Kreemke	16.03.2026	Surface: -
Last change			Weight: -

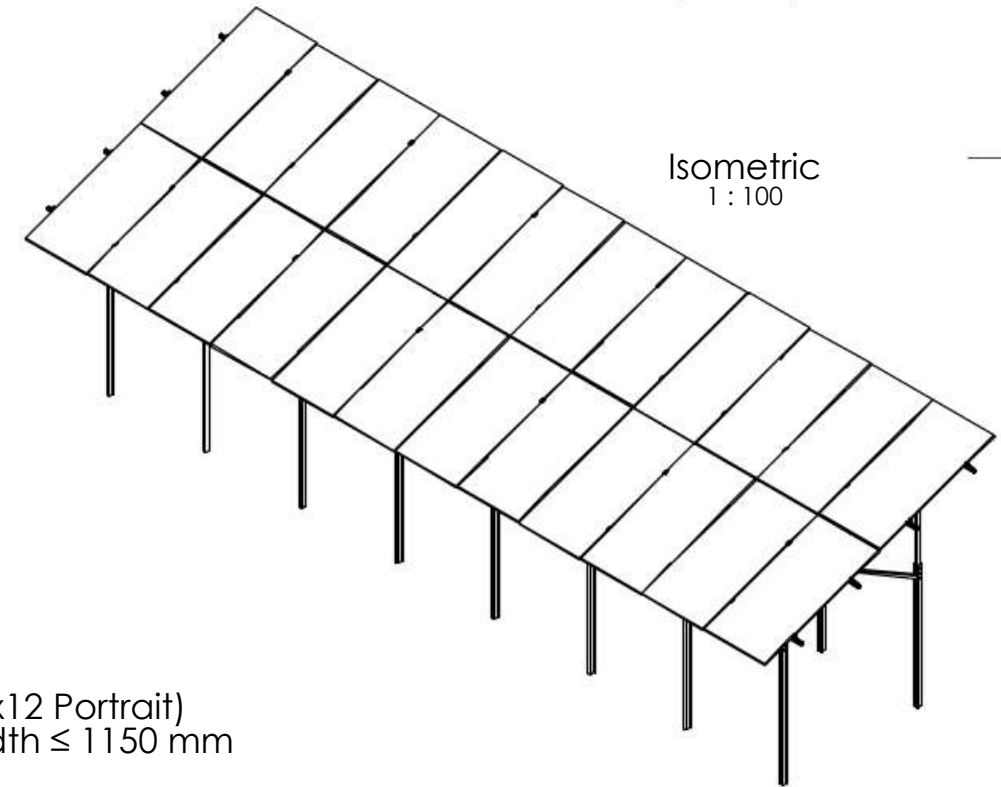
Designation:		Data sheet	
		N-Rack 2.20 Pile 2x12 S	
Item no.:	-	A3	
Drawing no.:	-	All dimensions in mm	
		Sheet 1 of 1	

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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.

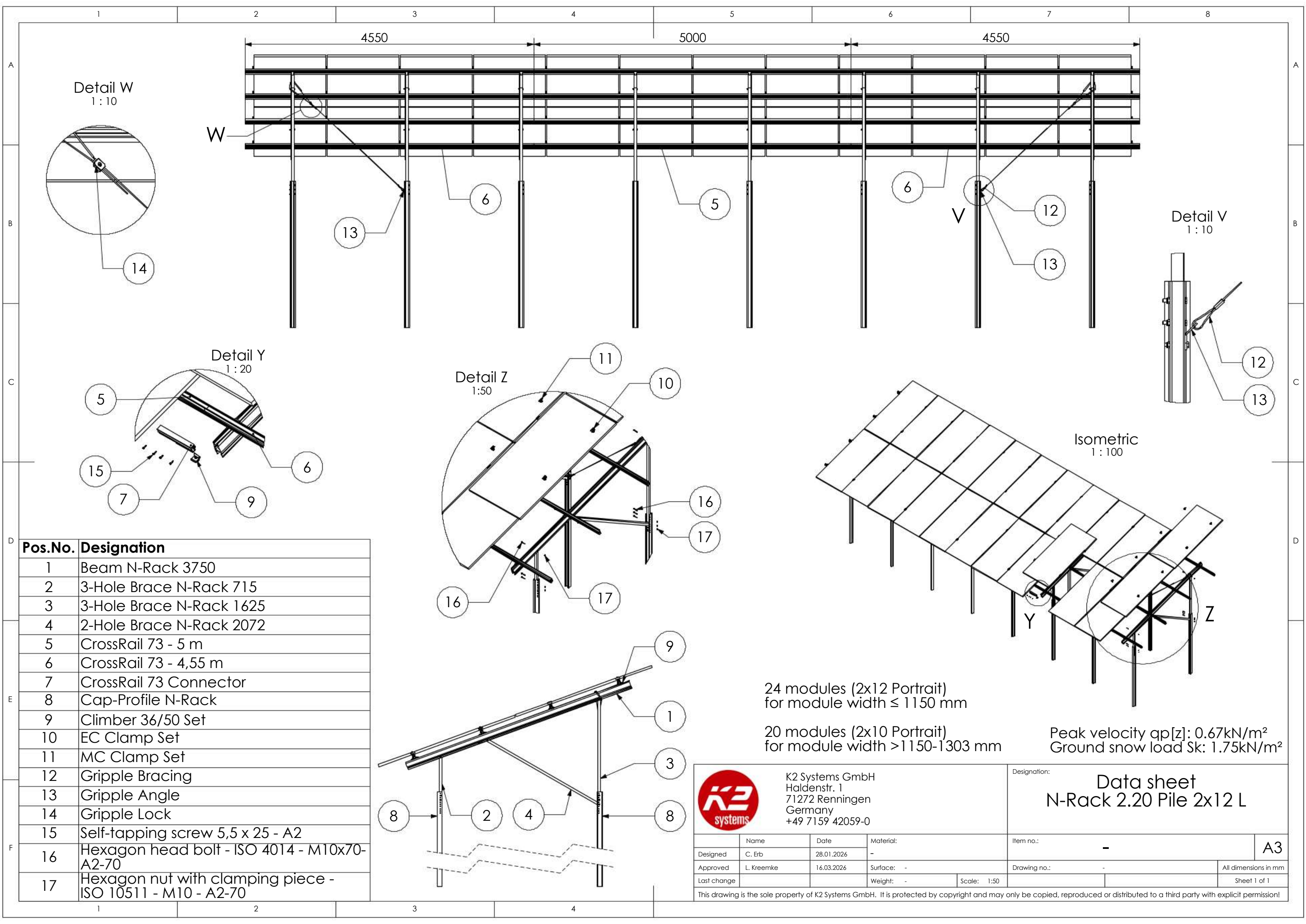


24 modules (2x12 Portrait)
for module width ≤ 1150 mm

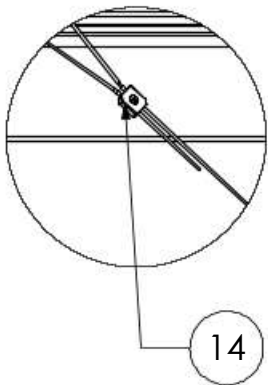
20 modules (2x10 Portrait)
for module width >1150-1303 mm

Peak velocity 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 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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Detail W
1 : 10



W

13

6

5

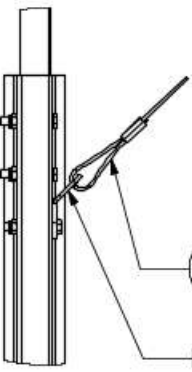
6

V

12

13

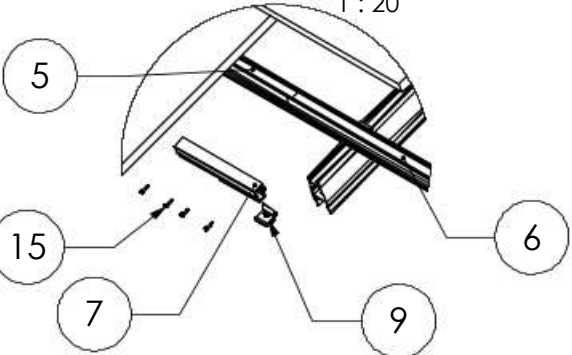
Detail V
1 : 10



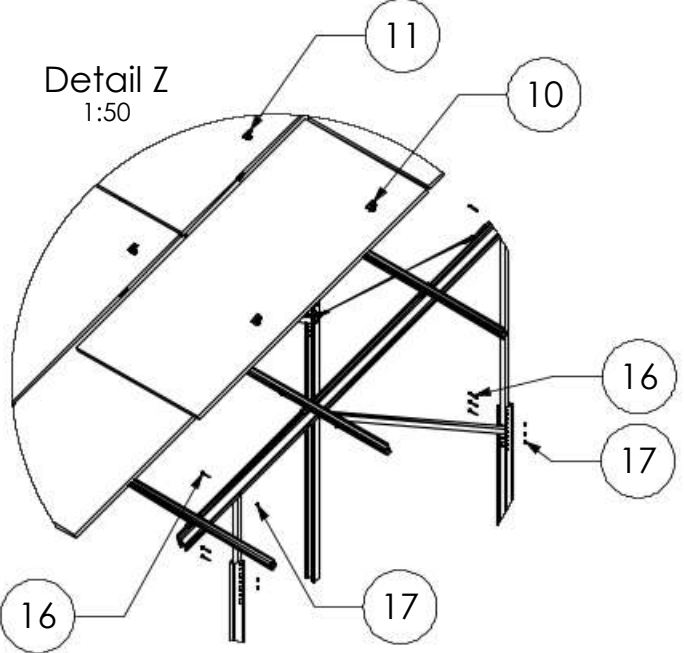
12

13

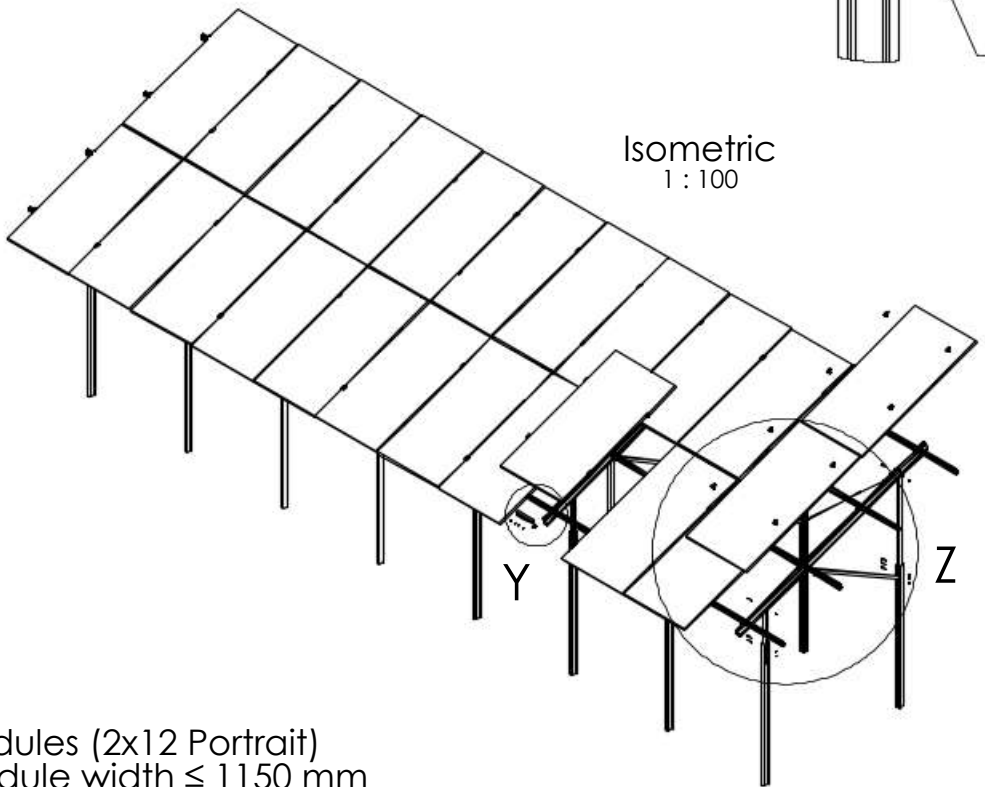
Detail Y
1 : 20



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 - 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/m²
Ground snow load S_k : 1.75kN/m²



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Designation:		Data sheet N-Rack 2.20 Pile 2x12 L	
Item no.:	-	A3	
Drawing no.:	-	All dimensions in mm	
Scale:	1:50	Sheet 1 of 1	

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Connecting Strength

Vielen Dank, dass Sie sich für ein K2 Montagesystem entschieden haben.

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Wir hoffen, diese Anleitung hat Ihnen dabei geholfen.
Für Anregungen, Fragen oder Verbesserungsvorschläge stehen wir
Ihnen gerne zur Verfügung. Alle Kontaktdaten finden Sie unter:

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

Es gelten unsere ALB; einzusehen unter: k2-systems.com

K2 Systems GmbH

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