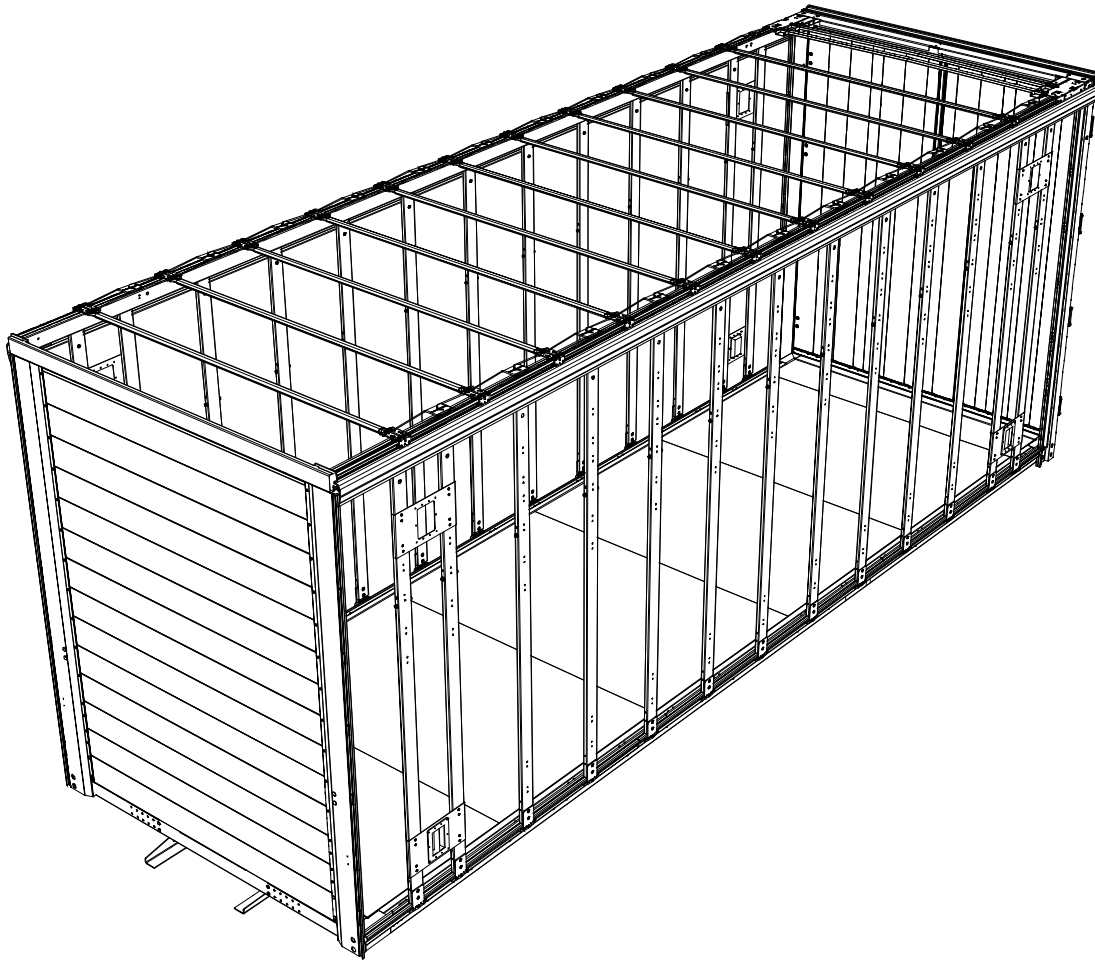


# Mounting instruction QCS



Translation of original mounting instruction



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## GENERAL REMARKS

### Introduction to Mounting Instruction

Alteration service: Yes

Staff: According to curriculum for apprenticeship as a body and vehicle mechanic and a body and vehicle construction mechanic.

This Mounting Instruction is part of the delivery and an important help for successful mounting. Therefore, it must be available to the mechanic during the mounting works.

Furthermore, the assembly guidelines of the applicable vehicle producers must be obeyed.

### Copyright:

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### Instruction and training support

As an employer, you are obliged to inform and instruct your personnel about existing legal and accident prevention regulations.

The personnel must have understood these instructions, and it must be safeguarded that the instructions are obeyed.

Only in this way you will reach safety and danger awareness of your personnel at work.

### Example for training topics

#### 1. About Safety

- Accident prevention regulations
- General legislation
- General safety hints
- Measures in emergency cases
- Personal protective equipment

#### 2. Maintenance and repair regulations

- Correct use of cleaning agents and lubricants
- Special experience of the mechanic in maintenance, repair, cleaning and upkeep of the product

## Hints

**Attention:**

The surfaces of the TSE modules must not be contaminated with caustic cleaning fluids. Cleaning fluids with the appropriate labeling are aggressive and can cause damage to all component surfaces. These should expressly not be used for gentle cleaning.

Nummer	Symbol
GHS05	corrosivity


**ATTENTION!**

Texts with this symbol will warn you against possible mistakes in mounting and, therefore, against potential material damages.


**HINT!**

Texts with this symbol will give you tips or additional information.


**TIGHTENING TORQUE!**

Texts with this symbol will give you necessary tightening torques.


**You need holes!**

Texts with this symbol indicate the setting of holes.

# Safety

## General

Although our products are in accordance with the state of the art, they may pose a risk if:

- they are mounted by unskilled personnel
- they are maintained improperly

## Safety hints

This safety instruction informs you about the products of TSE Trailer System Engineering GmbH & Co. KG. It contains information about maintenance and repair of the parts and their components. The service instruction has only been written for skilled personnel of qualified and authorized specialized companies in motor vehicle crafts. The service instruction is not applicable for other target groups.

We want to support specialized companies with the present mounting instruction during the mounting works with our products.

TSE Trailer System Engineering GmbH & Co. KG accepts no liability for the installation of inapplicable or unreleased parts in their products.

Defects due to wrong handling, aggressive cleaning agents, use of force or subsequent changes of the delivered product or single components of it, as well as non-observance of the safety hints and consequential damages caused thereby, are not covered by our warranty.

Only use unchanged original parts and accessories supplied by the manufacturer.

We do not accept any warranty for the correctness, completeness or currency of the given information. The contents and information of this mounting instruction are neither a warranty or warranted characteristics within the meaning of German legislation, respectively the German Civil Code (Bürgerliches Gesetzbuch (BGB)), nor can they be interpreted as such.

No claims can be derived from provision of information, recommendation or consulting. Liability for damages is generally excluded as far as we are not responsible in the sense of intent or gross negligence, or as far as this does not contradict mandatory legal provisions.

Texts and graphics are subject to our rights of use; copy rights or right of distribution in any form require our agreement.

Mentioned brand names, even if they are not marked as such in every case, are still subject to the regulations of the trade mark law. If any disputes of legal nature occur from applying information found in this mounting instruction, they shall solely be subject to the regulations of German law.

The Amtsgericht Stuttgart (Local Court in Stuttgart) is deemed to be agreed on as place of jurisdiction. If some clauses of this declaration about limitation of liability do not or no longer comply with the applicable legal provisions, the validity of the other clauses shall remain unaffected thereof. Read the information in this mounting instruction carefully. Especially, obey the hints for your own safety.

All technical information, descriptions and pictures shall be valid from the day of their printing - respectively the day of any supplements hereto - on.

We reserve the right to make changes due to steady further development.

No claims can be derived from applications and explanations of this publication.

### **Safety hints for the technician:**

Unauthorized people are not allowed to enter the vehicle and the area around it.

Your working area should be in good order.

Only works which you are commissioned and acquainted with have to be executed.

Increased caution is advisable in dangerous areas.

Obey the producer's information and safety hints for the applicable product when you deal with operation materials (oils, grease etc.).

Only applicable lifting devices may be used.

## Mounting C-rails

1

Mount C-rails



Countersunk screw with hexagon socket M10x25



Hexagon nut with flange M10



**Torque 71 Nm**

Screws and nuts und have to be taken **from the accessories.**

Start mounting the C-rail from behind.

After the first C-rail, the revision parts must be mounted.



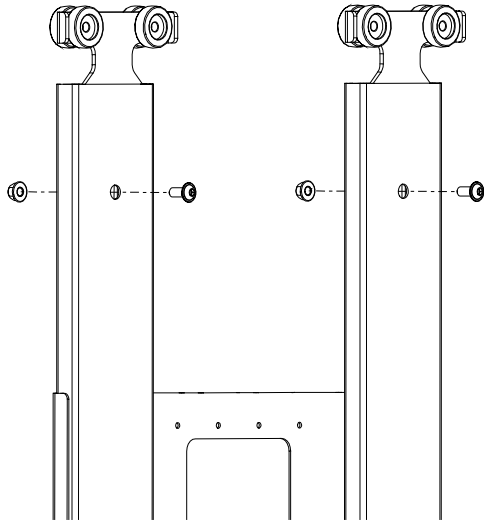
2



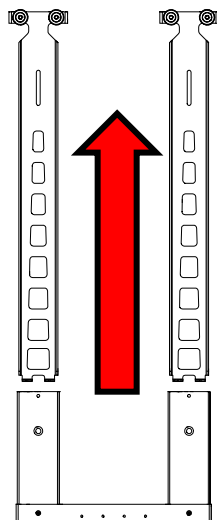
Depending on the body length, the gap fort he last piece of the C-rail varies. Therefore, a piece oft he C-rail must be brought tot he appropriate length by the customer.



## Dismantle guide carriage

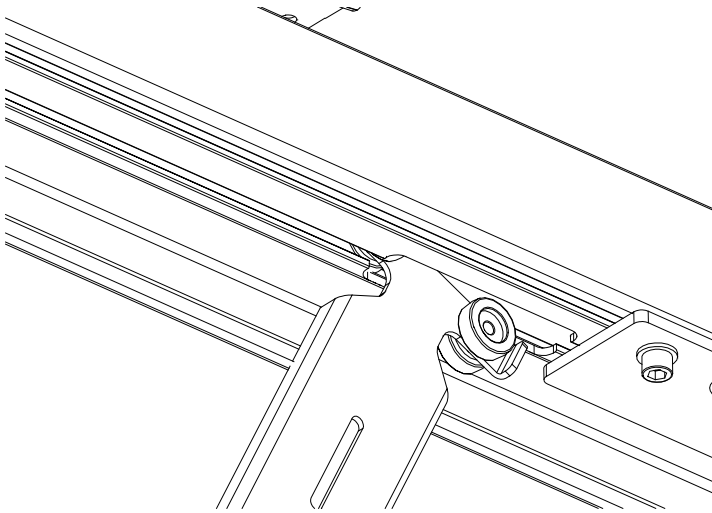
**1****Dismantle guide carriage**

The screws at the upper end of the guide carriages must be removed.

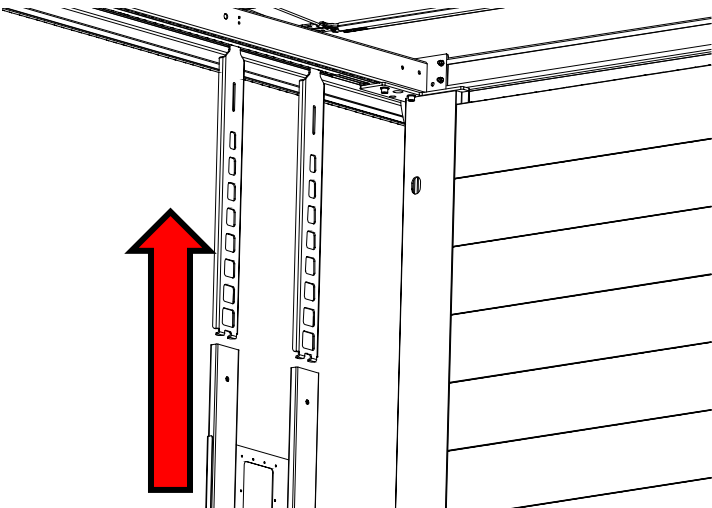
**2****Remove sliders**

## Insert and mount the guide carriage

1

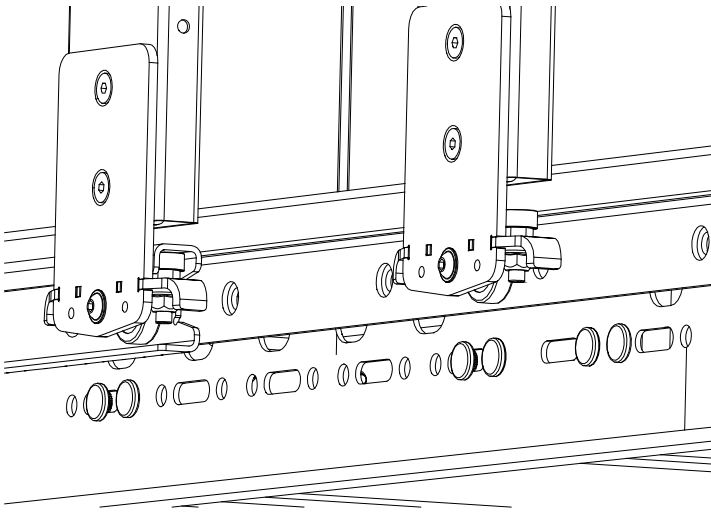
**Insert sliders**

2

**Insert guide carriage in the rail**



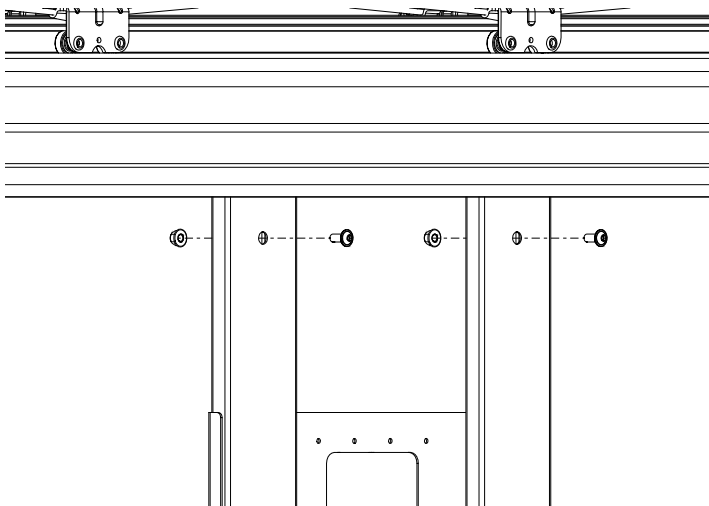
3

**Insert carriage guide over revision part**

 Lense-head screw with flange  
 and hexagon socket M8x20

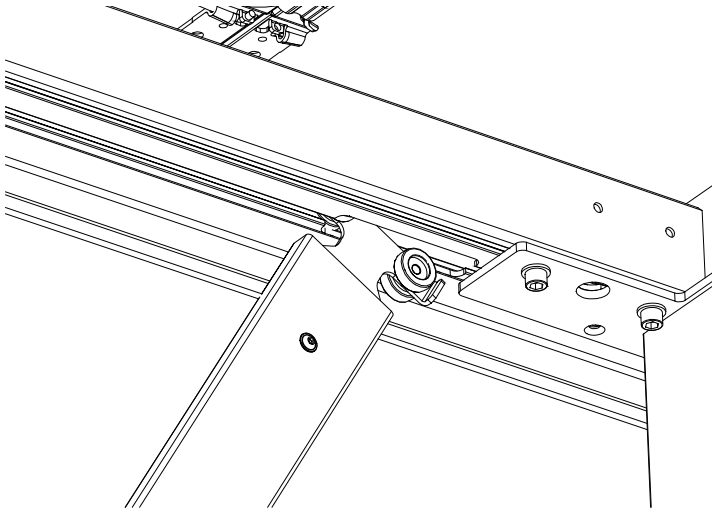
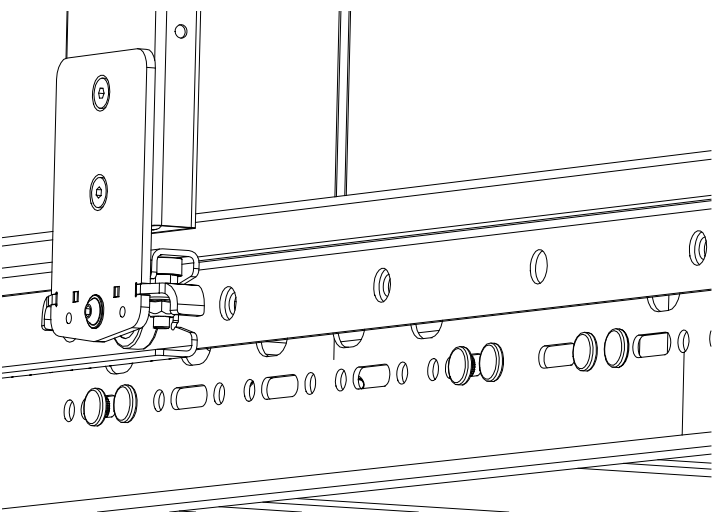
 Hexagon nut with flange  
 M8

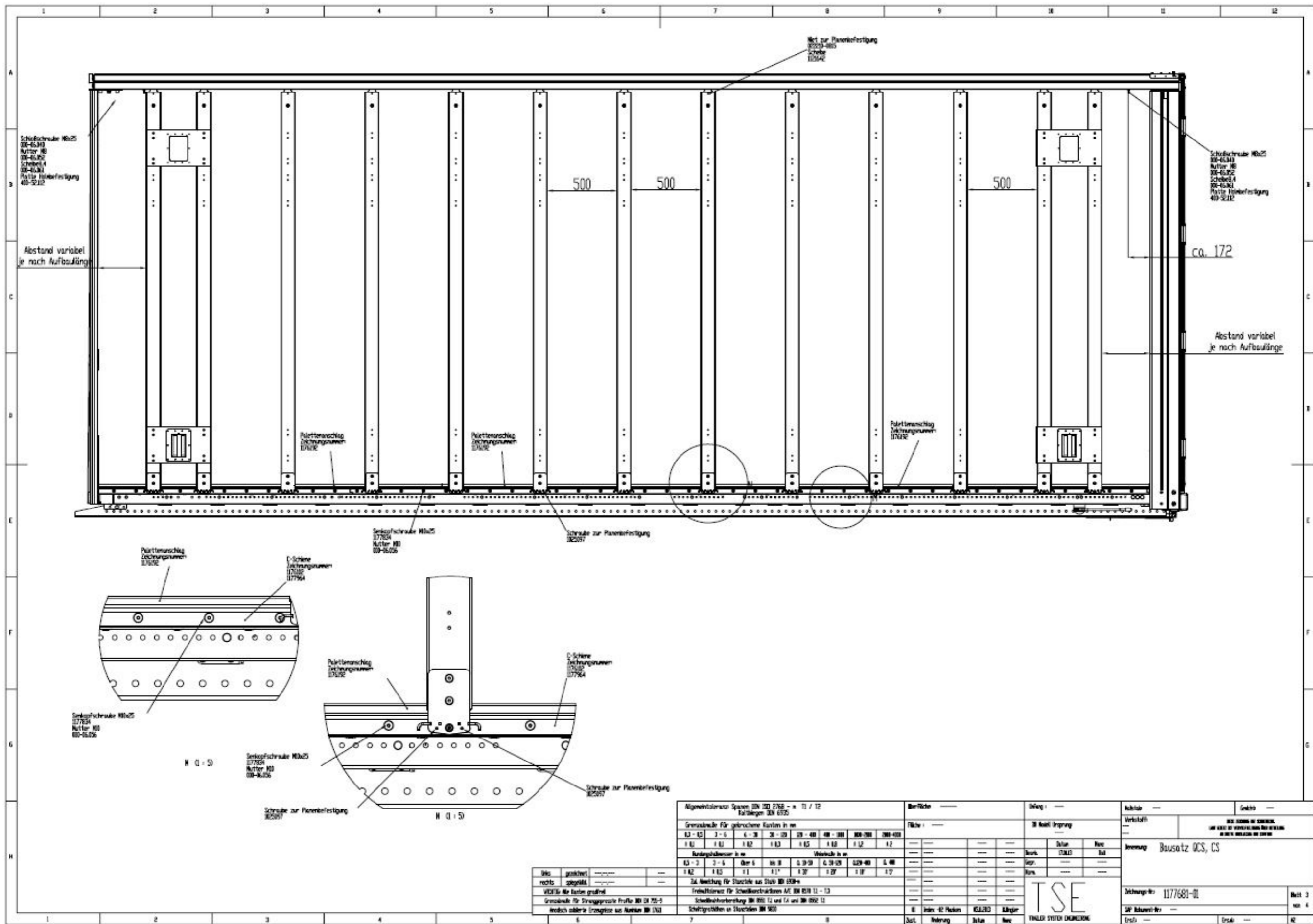
**Torque 36 Nm**

4

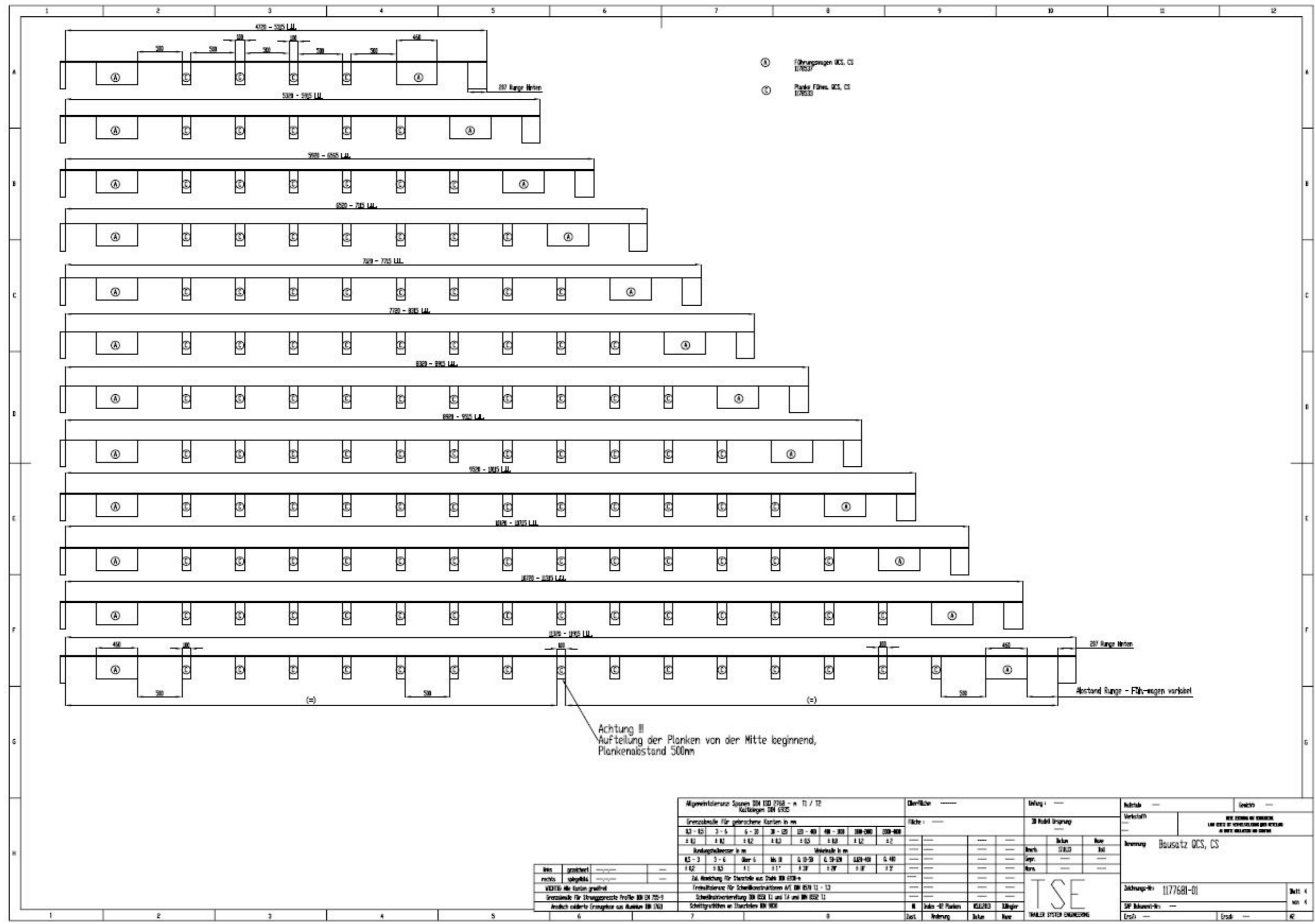
**Screw the carriage guide**


## Insert the plank

**1****Insert the plank at the rail****2****Insert plank over revision part**



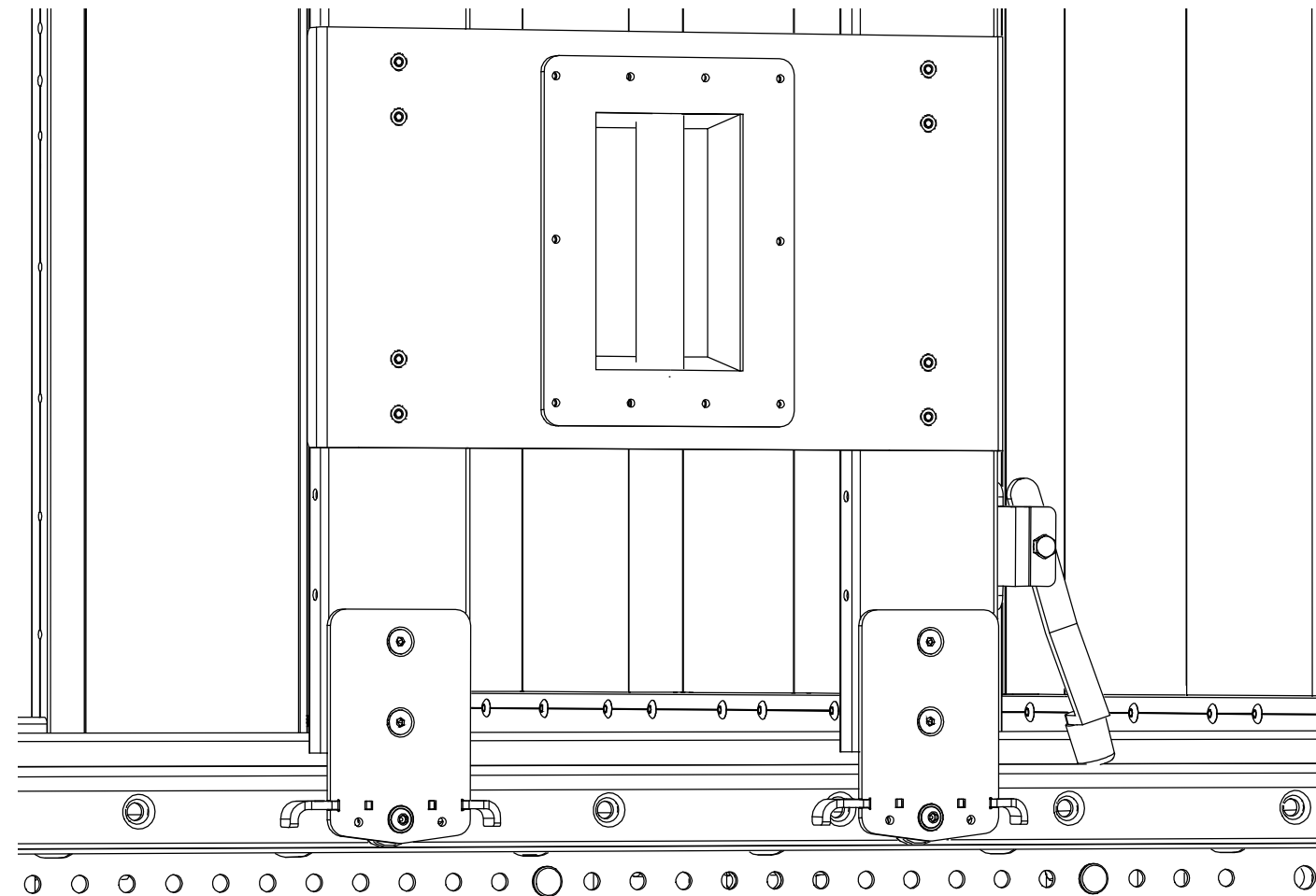
Allgemeinlasten Spanen DIN 102 2768 - n. 11 / 12 Lastbeleg 20k 6525		Berfläche		Dring		Nichtbe		Gekto	
Grenzwerte für gebrochene Karren in m		Fläche		30 kN/m²		Verstärk		mit 100mm in 100mm im 1000 x 1000mm Bereich in 1000 x 1000mm in 1000	
6,3 - 6,5	7 - 6	6 - 8	26 - 28	28 - 40	40 - 100	100 - 200	200 - 400	Anmerkung Bausatz QCS, CS	
1 61	1 61	1 62	1 63	1 65	1 65	1 12	1 2	Zeichnung: 1177681-01 Blatt 3 von 4	
Randabstände in m		Verbleibe in m		TSE		TRAILER SYSTEM ENGINEERING		Erst: --	
6,3 - 3	7 - 5	Über 6	16 8	6 30-35	6 30-35	6 29-40	6 40	Erst: --	
1 62	1 63	1 1	1 1*	1 2*	1 2*	1 2*	1 2*	Erst: --	
Zul. Neigung für Stocle aus Stahl 1000+		Freiwahlbereich für Schweißverbindungen Art. 101 11 - 13		TSE		TRAILER SYSTEM ENGINEERING		Erst: --	
Grenzwerte für Stangengruppe Profile 101 11 und 11		Schweißverbindungen 101 11 und 11		TSE		TRAILER SYSTEM ENGINEERING		Erst: --	
Ansch. abwärts Grouping aus Anbau 101 11		Schweißverbindungen in Stocle 101 11		TSE		TRAILER SYSTEM ENGINEERING		Erst: --	



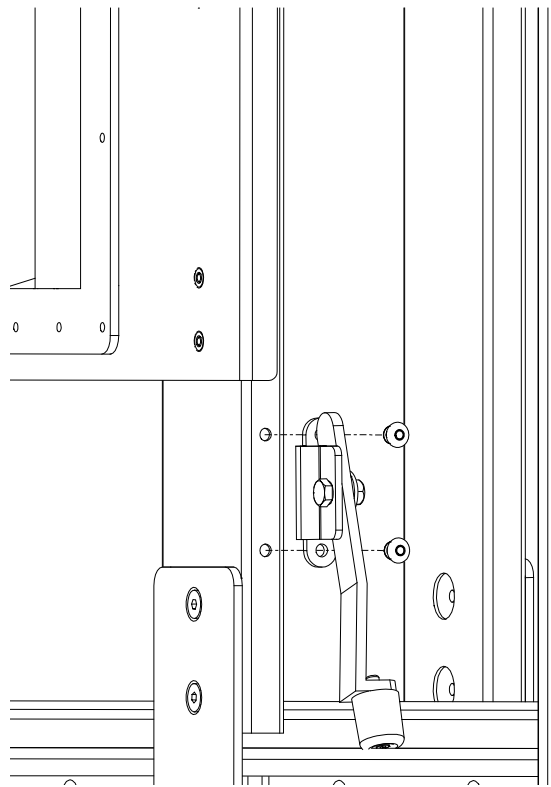
Achtung !!  
Aufteilung der Planken von der Mitte beginnend,  
Plankenabstand 500mm

Allgemeinlasten Spannen DIN ISO 7768 - n 11 / 12 Kollagen DIN 6930		Oberfläche: --- Dichtung: ---		Anzahl: --- Gewicht: ---	
Grenzwerte für getrocknete Karbon in m		Fläche: ---		3D Bild Ursprung: ---	
83 - 83 ± 83	3 - 5 ± 82	5 - 25 ± 82	28 - 28 ± 82	25 - 40 ± 82	100 - 200 ± 82
Randabstände in m		Werkstoffe in m		Nach: --- Typ: --- Merk: ---	
85 - 3 ± 82	3 - 6 ± 82	über 6 ± 1	11 ± 1	0,0-20 ± 20	0,20-20 ± 20
Zul. Abweichung für Stiele aus Stahl DIN 6733-n		Zul. Abweichung für Stiele aus Holz DIN 6733-n		Zul. Abweichung für Schweißverbindungen A11 DIN 6733 11 - 13	
VDI 2216 für Karbon geölt		Schweißverbindungen DIN 6733 11 und 13 und DIN 6733 11		Schweißverbindungen DIN 6733 11 und 13 und DIN 6733 11	
Grenzwerte für Strangpressen Profile DIN 755-1		Schrittweiten in Stahlblech DIN 1026		II Zuln - 42 Parken KLEBER Kleber	
Anschlag einleitet (Anschlag aus Aluminium DIN 1026)		Schrittweiten in Stahlblech DIN 1026		TSE TRAILER SYSTEM ENGINEERING	
Zeichnungs-Nr.: 1177681-01		Blatt: 4 von 4		Erst: ---	

Mounting of QCS stoppers



## Montage QCS Stopper

**1**

Hemlok-rivet, KI-BER4.8-6.8

The lever for stoppers and rivets is **part of the QCS stopper kit.**  
TSE-no.: 1252316



## Revision levels

Revision level	Kind of change	Date	Name
00	New creation of mounting instruction	26 August 2019	Laib / Maier
04	Corrected tightening torques	29 September 2020	Boll
02	Page 4 changed	24.11.2020	Boll

Erstellt	Geprüft und Freigegeben
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Dokument: FB45120A	