

TITLE	Construction guidelines			
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<b>Note: The history of changes is respectively located following the standards on the last page of the document!</b>				

### 1. Definition

Construction guidelines for chassis with tank bodies with a length of 10 to 11 metres for central European road use VID 902110.

Purpose of the tank bodies: Transport of liquids and free-flowing substances, no hazardous substances.

### 2. Preface and legal information

These construction guidelines provide information, properties and instructions for the modification and outfitting of the trailer.

These guidelines are intended for use by qualified, specialised personnel of specialist workshops in compliance with their contents.

The constructor is responsible for the project and its execution and must ensure compliance with the legal regulations, as well as the guidelines in this publication and the applicable regulations.

Furthermore, the information in the Kögel operating manual must be observed. The modifications may not impair the functions and maintenance measures outlined in the operating manual.

The constructor must pass the operating manual on to the end customer and provide a translation if necessary.

Changes to the trailer and any additional bodies that do not conform to these guidelines and have not been approved by Kögel Trailer GmbH are excluded from liability and the warranty.

### 3. Request for approval

Any work that deviates from the guidelines or is not mentioned therein must be submitted to Kögel Trailer GmbH for review, prior to commencing work.

The constructor must supply the vehicle details (e.g. chassis number) and suitable documentation (drawings, calculations, technical design, etc.) to Kögel Trailer GmbH, describing the intended design, use and operating conditions of the trailer. Anything that deviates from these guidelines must be highlighted on the drawings.

The work may only commence after written approval is granted by Kögel Trailer GmbH. Welding work on the parts supplied by Kögel Trailer GmbH is generally not approved!

No changes may be made to any components that are subject to system approval.

After the work is complete, the constructor must obtain all the necessary approvals and permissions from the relevant authorities.

## 4. Warranty

In accordance with the Terms & Conditions, the warranty is void if:

- legal regulations are not observed;
- work is not completed according to the state of the art;
- unapproved equipment or modifications are carried out;
- the guidelines and instructions provided by Kögel Trailer GmbH for the correct execution of the work are not followed;
- the safety regulations and contents of the operating manual, including maintenance requirements, are not observed;
- the trailer is used for purposes for which it is not intended.

## 5. Load distribution

All limit values must be observed, as specified by Kögel Trailer GmbH. In particular, the maximum fifth wheel load and maximum axle load must be observed under all load conditions. Additionally, the centre of gravity should be kept as low as possible and uniform weight distribution ensured.

## 6. Materials and corrosion protection

The outfitter must ensure adequate corrosion protection. In particular, corrosion-resistant materials must be selected for the connections between the body and the base trailer.

Changes made by the outfitter, e.g. fastenings, drilled holes, etc., which damage or remove the corrosion protection of the trailer, must be countered with suitable corrosion protection measures.

Kögel Trailer GmbH has no influence over modifications and cannot be held liable for corrosion damage and or resulting damage caused by modification of the trailer body.

The same applies to corrosion damage caused by cargo.

Damage of this kind is excluded from the warranty.

## 7. Mechanical fastening

The tank body is secured on the chassis using tensioning straps.

The tensioning straps must be 1,000 mm – 1,250 mm apart.

The fastening method of the tensioning straps on the top flange of the trailer chassis is shown in a photograph (Appendix 1) and a drawing (Appendix 2). The dimensions specified in the drawing must be observed.

Make sure that no cables or lines are damaged while positioning the tank body.

Make sure that any loose or disassembled components are correctly reassembled and that the tightening torque corresponds to the regulations or manufacturer's specifications (operating manual) when tightening the screws.

The modifications may not obstruct the suspension travel. The entire suspension travel must be guaranteed for the axles, springs and shock absorbers.

## 8. Electrical connection

Before performing any work on the trailer, specialist personnel must ensure that it is voltage-free and remains so for the duration of the work.

Kögel Trailer GmbH has no influence on the modification or installation of electrical component and therefore cannot be held liable for such installations. Any warranty is excluded.

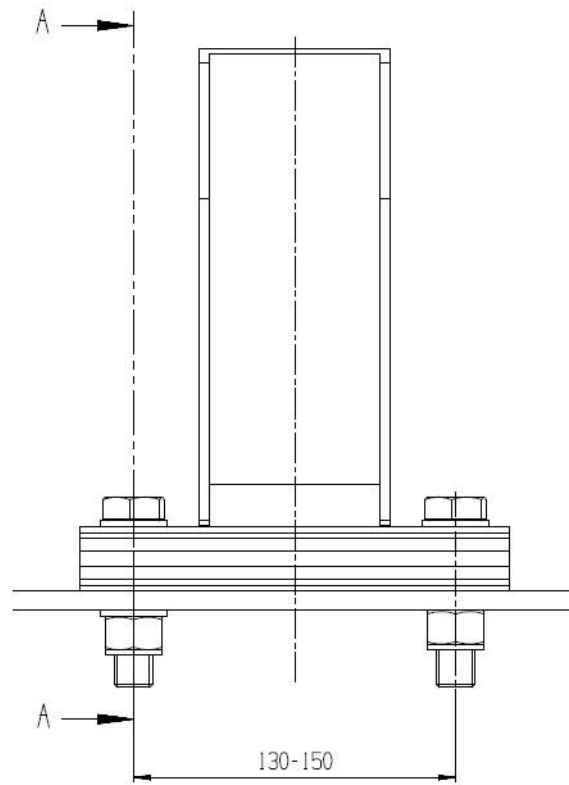
Electrical consumers may only be connected in the designated locations.  
If consumers are connected in unsuitable locations, there is a risk of fire.  
See circuit diagram in the operating manual.

Appendix 1:



Appendix 2:

Fastening bracket for tank body



SECTION A-A  
M 1:2

