

Important technical and legal information regarding caravan configuration and weight-related data

In road traffic, each caravan is only approved for a certain maximum weight. This maximum weight must not be exceeded during operation. Therefore, particular attention must be paid to the technical and legal requirements for the weight of your caravan when configuring and selecting optional equipment ('packages', 'features' and 'options') from our factory-fitted range.

The EU Commission's Implementing Regulation (EU) 2021/535 dated 31 March 2021 (up to and including 06/2022: EU Commission Regulation (EU) No. 1230/2012 dated 12 December 2012) sets out the legal requirements for the weight of your caravan. In order provide information that is as transparent and comprehensive as possible about the weight-related data specified in the configurator, the following explanations and information provided by Knaus Tabbert AG are based on the requirements of this Regulation. Please read the following explanations and information regarding weight-related data carefully before configuring and ordering your caravan. Our retail partners will also be happy to help you select and configure your caravan.

1. The technically permissible maximum mass of the caravan

The 'technically permissible maximum mass' of the caravan is shown in Part I of the registration certificate and refers to the maximum mass that your caravan may weigh when loaded (e.g. 1,500 kg) as specified by the manufacturer. This may not be exceeded during any journey. Exceeding the technically permissible maximum mass during operation is punishable by fines in many European countries. In Germany, exceeding the technically permissible maximum mass during operation can constitute an administrative offence punishable by a fine. We therefore recommend that you weigh your caravan prior to every journey and check that it complies with the technically permissible maximum mass. Compliance with the technically permissible maximum mass is your responsibility.

The technically permissible maximum mass for each layout is shown in the technical data.

2. The mass of the caravan in running order

The 'mass in running order' refers to the mass of the caravan including the body and standard factory equipment (or 'basic equipment') including a full aluminium gas cylinder, a full fresh water tank, a full flush toilet water tank and a full water heater.

For each layout, the mass in running order is shown in the technical data.

The following items are included in the mass in running order:

- the unladen weight of the caravan, including operating materials such as lubricants, oils and coolants, as well as on-board tools;

- the standard factory equipment, i.e. the basic configuration of the caravan equipped with all the features required by law, including any fitted equipment that does not require further specifications at a configuration or equipment level;
- 100% filled fresh water tank;
- 100% filled aluminium gas cylinder with a capacity of 2.7 kg/5 kg/11 kg and a total weight of 6 kg/10 kg/23 kg;
- 100% filled flush toilet tank;
- 100% filled fresh water heater.

Please note that the mass in running order specified in the technical data is a calculated nominal value that is subject to production-related tolerances of up to $\pm 5\%$. These legally permissible tolerances can have a direct impact on the actual mass of your caravan and therefore also the load capacity or remaining pay-mass. So you should always take these tolerances into account when configuring your caravan.

3. The actual vehicle mass

The 'actual vehicle mass' refers to the mass of the caravan in running order plus the mass of any optional factory-fitted equipment on a particular caravan.

4. The maximum number of sleeping places

The 'maximum number of sleeping places' for each layout is shown in the technical data.

5. Standard equipment and optional equipment

The 'standard equipment' (or 'basic equipment') refers to the basic configuration of a caravan equipped with all the features required by law, including any fitted equipment that does not require further specifications at a configuration or equipment level.

Details of the standard equipment (or 'basic equipment') are provided for the layout you have selected as part of the configuration.

The 'optional equipment' ('packages', 'features', and 'options') refers to all equipment not included in the standard equipment that is factory fitted to the caravan by the manufacturer and which can be ordered by the customer. Optional equipment in this sense does not include any other accessories that are fitted to the caravan by you or your retail partner after the manufacturer has delivered the caravan.

Details of the (equipment) packages, features, and options that can be ordered from the factory are provided for the layout you have selected as part of the configuration.

Please note that the installation of optional equipment always results in a reduction in pay-mass (see point 6.). The maximum optional equipment mass that can be selected for each layout can be found in the information on the respective layouts (see point 7.).

6. The pay-mass and the minimum pay-mass

The 'pay-mass' is calculated by subtracting the mass in running order and the manufacturer's maximum optional equipment mass from the technically permissible maximum mass.

European legislation stipulates a fixed 'minimum pay-mass' for caravans that must be adhered to for luggage and other accessories not installed by the manufacturer. This must not be reduced when configuring your caravan and is calculated using the following formula:

$$\text{Minimum pay-mass in kg} \geq 10 * (n + L)$$

Where 'n' = maximum number of sleeping places and 'L' = total length of the vehicle body, without drawbar, in metres.

7. The maximum optional equipment mass

To ensure compliance with the legally prescribed minimum pay-mass, the 'maximum optional equipment mass' is specified by the manufacturer for each layout. This is the mass available for selecting optional factory-fitted equipment ('packages', 'features' and 'options') while complying with the minimum pay-mass required by law.

Knaus Tabbert AG calculates the maximum optional equipment mass by first subtracting the mass in running order and the minimum pay-mass from the technically permissible maximum mass.

However, the mass in running order is a calculated nominal value that may be subject to production-related tolerances of up to $\pm 5\%$ (see point 2.). The occurrence of these production-related tolerances could result in the minimum pay-mass not actually being observed if the calculated optional equipment mass is used.

To prevent such a reduction in the minimum pay-mass, Knaus Tabbert AG therefore takes account of the permissible weight deviations that experience has shown may occur for each layout when determining the maximum optional equipment mass.

In addition, equipment features of national variants/special models that are not part of the standard equipment are also taken into account when calculating the maximum optional equipment mass.

If due to the selection of optional equipment, the maximum optional equipment mass is exceeded, you can generally (depending on the layout) select an increase in vehicle load

capacity and/or deselect optional equipment in the caravan configurator in order to continue with the configuration. If you fail to do this, the configuration and therefore the order process for your caravan cannot be continued.

8. Legally permissible tolerances in the calculation of weight data

The mass in running order figures given in the technical data are calculated nominal values that are subject to production-related tolerances of up to $\pm 5\%$. These production-related tolerances of up to $\pm 5\%$ are legally permissible and result from the use of natural materials such as wood, as well as the manufacturing processes used by some suppliers. Despite optimised production processes, weight fluctuations resulting from the materials used cannot be completely ruled out. As these legally permissible tolerances have a direct impact on the actual mass of your caravan and therefore also the possible vehicle load capacity or remaining pay-mass, you should always take these into account when configuring your caravan.

Example:

Mass in running order according to technical data:	1,320 kg
Legally permissible tolerance of $\pm 5\%$:	66 kg
Legally permissible range of mass in running order	1,254 to 1,386 kg

Based on the above example, if you order the caravan with optional equipment with a total weight of 50 kg, the nominal value of the mass in running order shown in the technical data results in a pay-mass of 130 kg. However, the actual load capacity may deviate from this value because of the legally permissible tolerances. If the mass in running order of your caravan is about 1% higher than the nominal value stated in the technical data, the load capacity is reduced from 130 kg to 117 kg:

Example:

1,500 kg	Technically permissible maximum mass
- 1,333 kg	Actual weight of the caravan in running order (+ 1% compared to the mass in running order of 1,320 kg stated in the sales literature)
- 50 kg	Optional equipment ordered for the specifically configured caravan
= 117 kg	Remaining load capacity (NB: the remaining load capacity must be greater than the minimum pay-mass, see point 6.)

We therefore recommend that you weigh your loaded caravan prior to every journey and check that you comply with the technically permissible maximum mass. As the driver of the vehicle, you are responsible for checking this.