



VELOSAFE

Bike garage

Data sheet

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Original Data sheet

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1. Velosafe bike garage - Description

The Velosafe bike garage was specially designed with the local public transport and tourism in mind.

State of the art access technology and high production value combined with the modular base structure provide highest possible flexibility and safety. Examples of use are cities, communities, residential complexes, train stations and more.

The modular system can easily be expanded as needed and is available as a single- and two-story system. Systems are assembled from single modules. Single boxes are optionally available.

The separate user station serves as central control unit for retrieving information or making payments via touchscreen. It can be equipped and expanded according to customer needs.

The Velosafe bike garage can be installed outdoors as well as indoors. The water is drained through the rear wall of each bicycle box.

With the Velosafe bike garage you can provide 24/7 service to your customers without the need of additional staff.

The bike boxes, doors and the user station are available in almost any color combination.

One classic-RAL-color out of LockTec list PG 1 is included without extra cost. Other and/or additional RAL-colors are possible on inquiry. The standard shed roof has a 2 degree slope to allow rainwater to drain over the back wall. The bike boxes are aligned on site to compensate for unevenness of the subsoil and to ensure the proper functioning of all components.

Safety concept - confirmation from external experts (engineering office for construction and plant technology) available.

Mechanical version

The mechanical version of the Velosaf bike garage has a cylinder lock built into the doors.

Electronic version

The electronic version of the Velosafe bike garage provides an emergency unlocking mechanism accessible from the inside and outside of the bike boxes.



Complete system with user station

2. Velosafe bike garage - User station



User station

Installation location	Flexible, either directly next to the bike boxes or separately.
Operating principle	The touchscreen allows the entry of pickup codes, retrieval of information and menu control.
Optional features	Payment system Printer for tickets RFID-Card reader 2D Scanner for QR-Codes or Barcodes UPS (Uninterruptible Power Supply) Antenna and router SIM card (monthly costs) with hosting
Dimensions W x H x D ca.	550 mm x 1490 mm x 250 mm 500 mm x 1800 mm x 200 mm (optional)

Touchscreen Monitor (Standard)*

Display	10.1" Touch Display
Resolution	1280 x 800 x 60Hz
Reaktion time	25ms
Colors	16.7M
Temperature range	0 to +40°C
Resistant to vandalism	Break tested touchscreen UL-60950 and IK-07 approved

*At LockTec's option depending on availability. **A potentially required input field is integrated in the display.

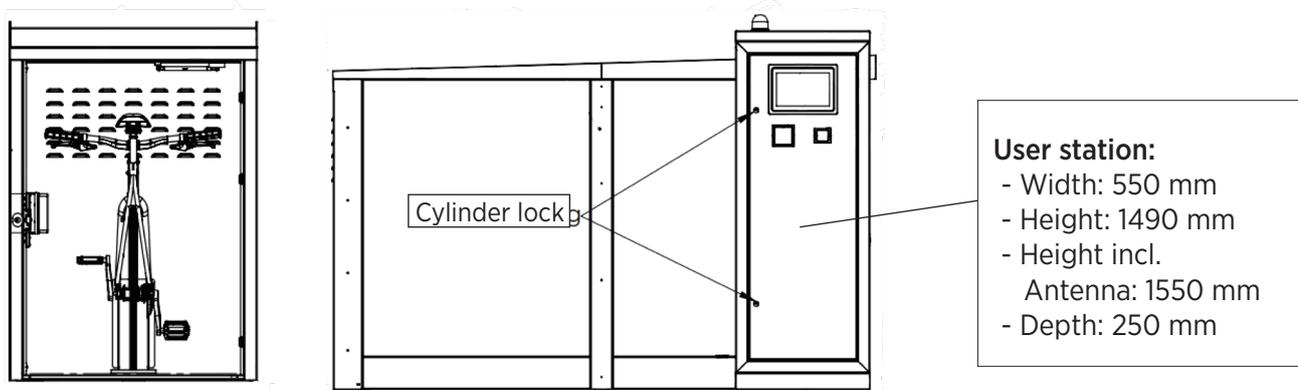
Touchscreen Monitor (Optional)*

Display	10.1" Dust-proof Touch Display
Resolution	1280 x 800
Contrast	800 : 1
Colors	16.7M
Temperature range	-20 to +60°C
Resistant to vandalism	Break tested touchscreen UL-60950 and IK-07 approved

*At LockTec's option depending on availability. **A potentially required input field is integrated in the display.

3. Velosafe Bike garage - Bike boxes

Single-storey bike box with guide rail below (max. 85 mm, suitable for bikes with handlebar width up to 805 mm) (Exemplary representation)



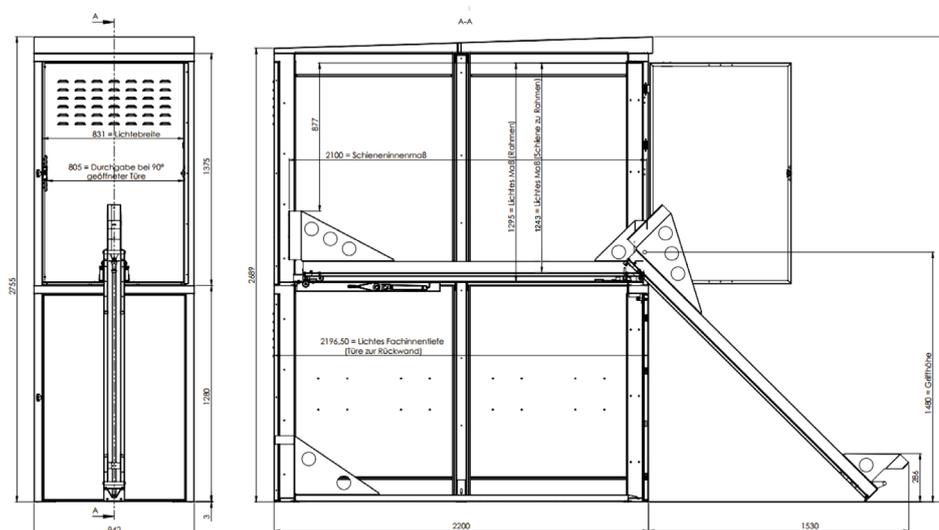
Outer dimensions approx.

Width	942 mm
Height	1383 mm
Depth	2200 mm

Inner dimensions approx.

Clear width of door	805 mm
Height	1200 mm
Depth	2195 mm

Double-storey bike box with guide rail below and pull out rail in the upper bike box (max. 85 mm, suitable for bikes with handlebar width up to 805 mm.) (Exemplary representation)



Outer dimensions approx.

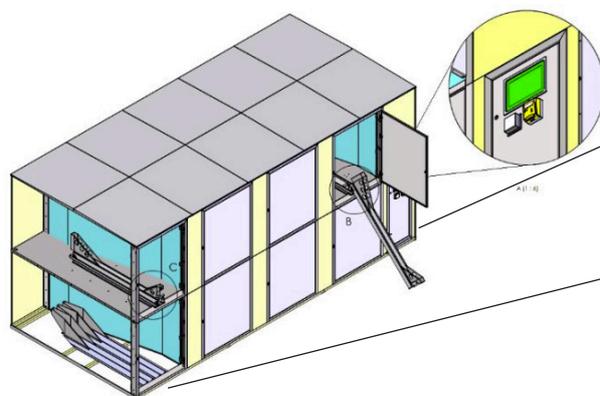
Width	942 mm
Height	2755 mm
Depth	2200 mm

Inner dimensions approx.

Clear width of door	805 mm
Height	1243 mm
Depth	2195 mm

Systems are assembled from single modules. In the context of our sustainability concept, as well as for the protection of resources and environment, the outer width of the boxes is reduced by the modular composition.

Double-storey bike box - Velosafe mobile with guide rail below and pull out rail in the upper bike box (max. 85 mm, suitable for bikes with handlebar width up to 800 mm.) (Exemplary representation)



Thanks to the container design, the system can be easily relocated within one working day.

Due to the pie-shaped arrangement and the double-sided use, up to 24 bicycles can be parked in the 16 boxes.

Outer dimensions Container approx.

Width	6058 mm
Height	2896 mm
Depth	2438 mm

Inner dimensions approx.

Clear width of door	805 mm
Clear height of door	1200 mm
Depth	2388 mm

As part of our sustainability concept and to conserve resources and the environment, the outer width of the boxes is reduced due to the modular design. Other guide rail widths and handlebar widths are available on request.

Guide rail according to DIN 79008-1 and 2:2016-05 (Exemplary representation)



Dimensions approx.

For tire width of	23-55 mm according to DIN 79008-1 and 2; Also suitable for bikes with tire widths under 23 mm and over 55 mm
Height of the wheel holder	390 mm
Bicycle size/wheelbase	up to 1300 mm according to DIN 79008-1 and 2; bike lengths of over 2000 mm can be parked
Weight per parking space	For bikes weighing up to 30 kg

4. Velosafe bike garage - Material overview



Material bike box

Bearing ground construction:	Folded stainless steel construction
Outer side wall:	Stainless steel-aluminum construction
Rear wall:	Stainless steel-aluminum construction
Partition wall (applies when several bike boxes are placed together):	Stainless steel-aluminum construction
Doors:	Stainless steel-aluminum construction
Pull-out rail:	Stainless steel construction
Floor (applies only for double story bike boxes):	Stainless steel-aluminum construction
Roof:	Stainless steel-aluminum construction

Material user station

User station:	Stainless steel-aluminum construction
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Material and material processing methods

The steel structures are made of stainless steel-aluminum as standard and are also powder-coated.

Our systems fulfill the corrosion protection requirements according to „C3“, moderate, protection duration „high“. Corrosion protection requirement „C4“ is possible on request.

NOTE! The steel structure has a possibility of connection to the on-site grounding.

5. Velosafe bike garage - Optional features



Optional features

- Coat hooks
- LEDs inside the bike boxes
- Power charge for batteries (230V)
- Door handle
- Anti graffiti paint
- Roof for vegetation (bike boxes only)
- Interface communication for third-party booking portals (Dein Radschloss, NVR, NWL)
- Managementserver
- Booking portal (LockTec)
- Decals: Door numbering, operating instructions, pictograms, lettering or logos.
Notes: Conditions of use on site
- Wire loop for attaching a bicycle lock
- Exterior mounted LED lights

Powder coating

Our powder coating partners are all certified in accordance with the quality mark of the Quality Management Community (QIB) or ISO 9001. Therefore, we can offer various powder coatings, life expectancies and corrosivity categories (derived from DIN 55634/ ISO 12944).

NOTE! The life expectancy does not correspond to the warranty period!

Type of surface characteristics

The locker systems are based on the standard level and may show various visual features. The surface characteristics are listed in the QIB-leaflet 3-1 „Visual assessment of coated, decorative surfaces“. The most significant points are shown below.

Crater, Bubbles and Inclusions

max. 30 pcs. $\leq 1,0 \text{ mm}^2$ per m^2 ; max. 8 pcs. $\leq 1,0 \text{ mm}^2$ per 100 cm^2
max. 5 pcs. $\leq 1,5 \text{ mm}^2$ per m^2 ; max. 3 pcs. $\leq 1,5 \text{ mm}^2$ per 100 cm^2

Paint tears and Accumulations

Approved and partially max. triple layer thickness allowed.

Gloss differences

Approved if within the following tolerances.

For metrological evaluations of industrial coatings by reflection measurement according to DIN EN ISO 2813 (60° measurement geometry) the following tolerance limits usually apply for:

- Glossy surfaces: 71 to 100 E (± 10 E)
- Silk-glossy surfaces: 31 to 70 E (± 7 E)
- Matt surfaces: 0 to 30 E (± 5 E)

Color deviation

Approved, if not to noticeable. Reference lighting is the diffuse daylight (view distance in accordance with explanations must be respected).

A metrological evaluation is based on DIN 6175 Table 1 with the tolerance limit of a Maximum of 1.5 times the permitted color deviation. The numerical value of the metamerism index (according to DIN 6172) of subsequent deliveries must not exceed the numerical value of the color distance ΔE_{ab} . For different delivery batches of an order the color shades that may occur should not exceed 2 times the value of the tolerances specified in DIN 6175 Table 1. If components of several paint batches are joined together, the above mentioned 2-fold tolerance may be doubled if joints, mitres, corrugations, ornamental strips, cavities or the like are present.

Attention: Color deviations and discolorations are no base for warranty claims!

Sanding marks

Sanding marks of max. roughness of $R_{\text{max}} < 9 \mu\text{m}$ (equals abrasive paper with grain size 180 used with an extender orbital sander) are normally covered by conventional powder coating systems.

NOTE! The coating thickness depends on the coating method. The choice of an anti-graffiti coating or higher quality coating methods might result in different values compared to the above mentioned.

Attention! In the material processing and welding methods we use, we deliberately work with visible weld seams. These do not constitute a defect.

7. Velosafe bike garage - Things to know



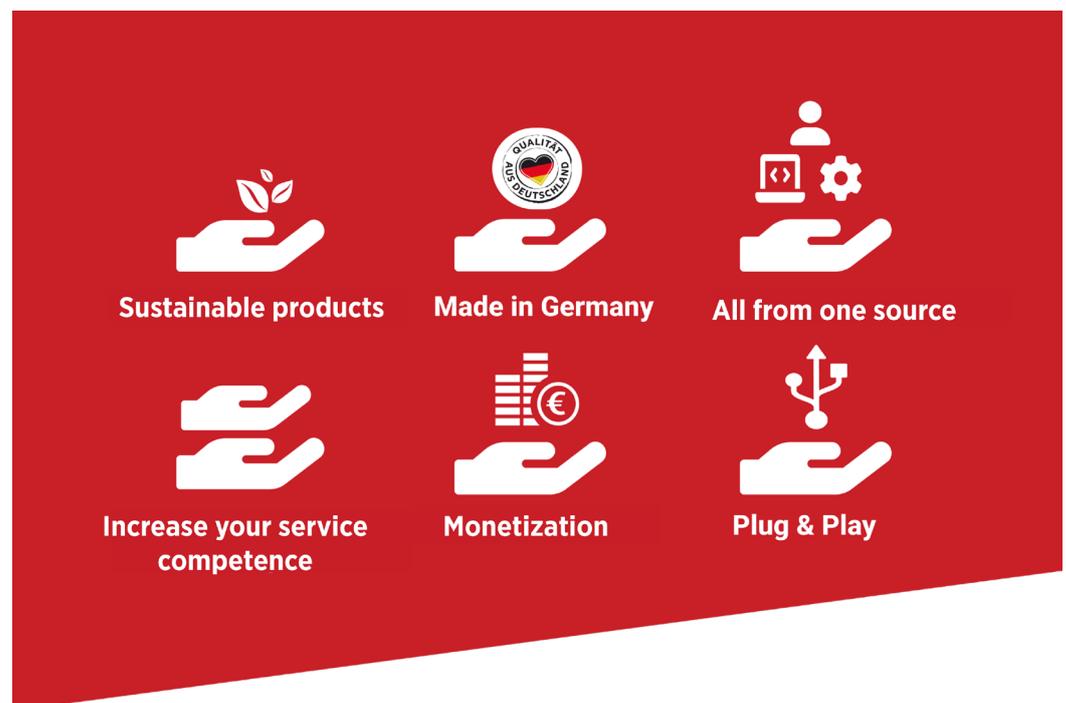
Experience:

LockTec GmbH is the founder of the concept of using locker systems for the transfer of goods.

Patent lodged in Germany 1999 for the technology of delivering parcels to an automated locker system. International patent was confirmed on December 19th, 2007.

LockTec is a reliable and very experienced partner and produces a wide range of different locker solutions for various use cases, such as Luggage lockers for train stations, airports, shopping malls..., Cool Lockers for the unattended handover of food and medicine... for butcher shops, supermarkets, drugstores..., Servicebox for the unattended handover of tools, documents, packages and more for companies, residential complexes...

Quality features:



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