



SERVICEBOX

Data sheet

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Original data sheet

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1. Servicebox - Description



Servicebox is a highly flexible, electronically controlled locker system for unattended handling of goods, which was designed with the latest technology in mind. The versatility of the system is also reflected in the possible applications.

Examples of usage can be:

- companies - for their internal communication
- Pharmacies - for handover of drugs
- Suppliers and parcel services - for handover of packages
- Operator of real estate - As pickup station for residents

The locker system can be used indoors as well as outdoors.

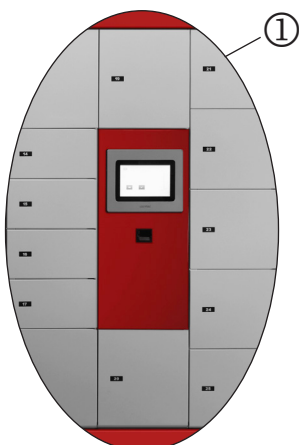
The doors of the Servicebox are closed by default. The touchscreen of the user station is easy to use and provides, easy to understand, all necessary information.

The software is the latest in technology and is intuitive to use. It is possible to delegate different tasks to various persons using the integrated "role and rights concept". The software provides many useful functions and can be integrated into ERP-systems, IT-systems and online shops via API quick and easy. The user station contains a LS-PC and a touch screen and can be extended according to customer requirements.

With the Servicebox locker system, your company can provide goods and services to your customers independent of opening hours and thus more service.



2. Servicebox - User station



The user station of the Servicebox is available in two variations depending on the locker system.

The "All in one" locker system has an integrated user station. Depending on the configuration additional lockers may be available, because the size of the technic locker depends on the features of the locker system (see image 1 on the left).



The separate user station is usually used for larger locker systems and is also available separately (see image 2 on the left).

STANDARD CONFIGURATION:	EXPANSION OPTIONS:
- 10" Touchscreen	- Cashless payment system
- Integrated LS-PC	- Potential-free alarm contacts
- **2D Scanner	- Siren
- E-Heating (Outdoor)	- RFID reader
- Air filter system	- Fingerprint reader
	- Ticket printer
	- Sunlight readable Monitor
	- *UPS (uninterruptable power supply)

*To maintain functionality of the UPS, the accumulators must be checked once a year and replaced every two years.

**For "Plug & Play systems, the 2D scanner is available as an option.

The equipment of the user station is configured according to your needs.

3. Servicebox - Technical data



Technica data - Locker system (without object detection)

Power connection	230V AC/50Hz +/- 10% (Please ask for other power connections)
Fusing	per user station 16 A-
Work area- and ambient temperature	-15°C to 35°C
Power supply	2kWh/24h*

Technical data - Object detection system (optional)

LightBarrierController supply voltage	12V
Quiescent current consumption	approximately. 14mA
Power consumption	less than 0,2Watt (per LightBarrierController)
Protection class	Protection class III
Radiant power of the emitting diodes	The beam power is harmless and is only a fraction of the of the beam power of an IR remote control.
Object detection	Starting at an object thickness of approx. 4mm and a minimum size of approx. 80mm
Internal object detection time	approx. 10ms

Up to 8 LightBarrierSensor systems can be connected per LightBarrierController. One LightBarrierSensor system is used per compartment, which generates a light curtain with 8 light barriers. The distance between the light barriers is 70 mm. Special IR-transparent filters protect the IR sensors. The filters are easy to clean.

4. Servicebox - Touchscreen



Touchscreen Monitor (Standard)*

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

* At LockTec's option depending on availability.

To ensure a customer friendly and trouble-free user experience with the locker system, heating up of the touch screen must be avoided. Please protect the touch screen from direct sunlight.

Touchscreen Monitor (Optional)*

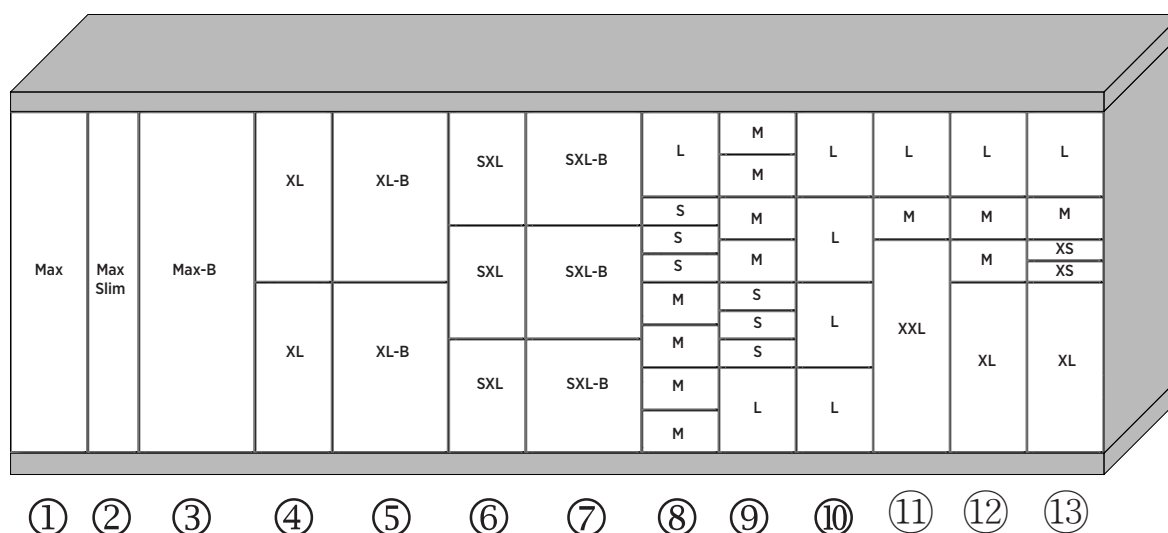
Display	10.1" Dust-proof Touch Display
Resolution	1280 x 800 (WXGA) 16:10
Contrast	1000 : 1
Colors	16.7M
Temperature range	-20 to +70°C; 20-90% humidity
Vandalism resistant	Break tested Touchscreen IK-08 tested

* At LockTec's option depending on availability.

5. Servicebox - Locker columns part 1

The locker columns are available in DIN right and left and can be delivered in RAL-colors 5001-9001 without additional costs. The colors can be combined according to customer requirements. Please feel free to ask for other colors.

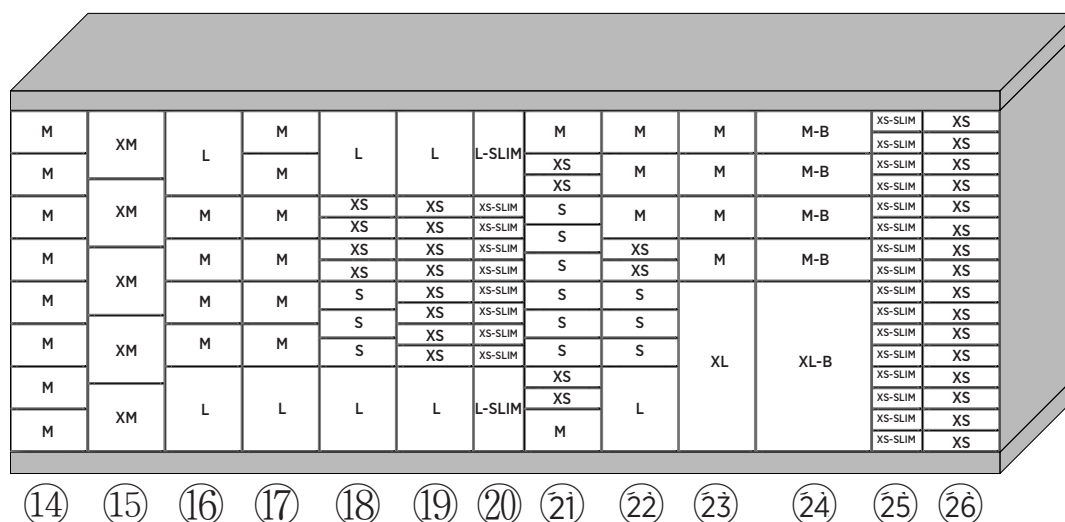
Most common types of columns:



No.:	Types of columns:	Locker sizes:	Weight (Kg)
1	1-Locker-column type MAX	1 x MAX	approx. 65
2	1-Locker-column type MAX-SLIM	1 x MAX-SLIM	approx. 55
3	1-Locker-column type MAX-B	1 x MAX-B	approx. 75
4	2-Locker-column type XL	2 x XL	approx. 68
5	2-Locker-column type XL-B	2 x XL-B	approx. 80
6	3-Locker-column type SXL	3 x SXL	approx. 72
7	3-Locker-column type SXL-B	3 x SXL-B	approx. 85
8	8-Locker-column type M/S/L	4 x M / 3 x S / 1 x L	approx. 92
9	8-Locker-column type L/S/M	1 x L / 3 x S / 4 x M	approx. 92
10	5-Locker-column type L	4 x L	approx. 76
11	3-Locker-column type XXL/M/L	1 x XXL / 1 x M / 1 x L	approx. 72
12	4-Locker-column type XL/M/L	1 x XL / 2 x M / 1 x L	approx. 76
13	5-Locker-column type XL/XS/M/L	1 x XL / 2 x XS / 1 x M / 1 x L	approx. 80

Locker columns part 2

Most common types of columns:



No.:	Types of columns:	Locker sizes:	Weight (Kg)
14	8-Locker-column type M	8 x M	approx. 92
15	5-Locker-column type XM	5 x XM	approx. 80
16	6-Locker-column type L/M	2 x L / 4 x M	approx. 84
17	7-Locker-column type L/M	1 x L / 6 x M	approx. 88
18	9-Locker-column type L/S/XS	2 x L / 3 x S / 4 x XS /	approx. 97
19	10-Locker-column type L/XS	2 x L / 8 x XS	approx. 102
20	10-Locker-column type L-SLIM/XS-SLIM	2 x L-SLIM / 8 x XS-SLIM	approx. 90
21	12-Locker-column type M/XS/S	2 x M / 4 x XS / 6 x S	approx. 109
22	12-Locker-column type L/S/XS/M	1 x L / 3 x S / 2 x XS / 3 x M	approx. 96,5
23	5-Locker-column type XL/M	1 x XL / 4 x M	approx. 80
24	5-Locker-column type XL-B/M-B	1 x XL-B / 4 x M-B	approx. 92
25	16-Locker-column type XS-SLIM	16 x XS-SLIM	approx. 112
26	16-Locker-column type XS	16 x XS	approx. 128

Other types of columns on request

6. Servicebox - Expansion options

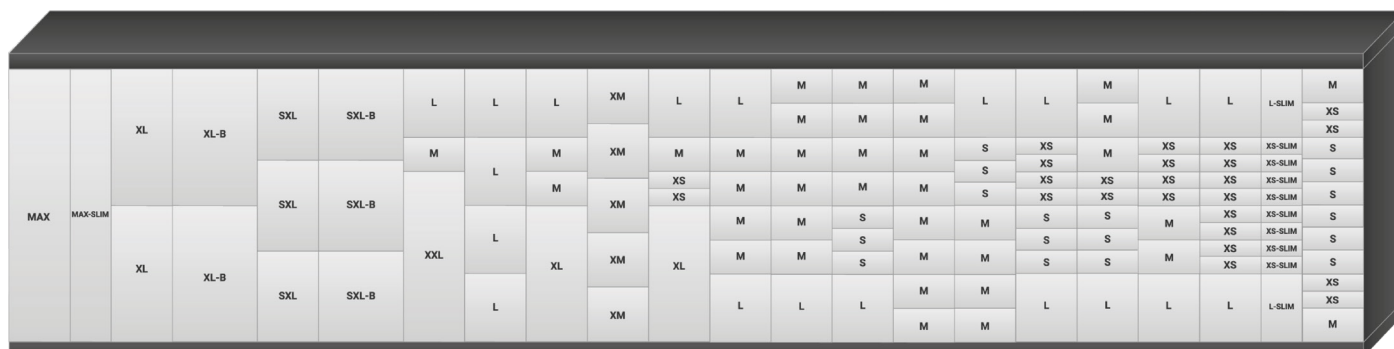


The locker types can be equipped with the following expansion options, depending on the size of the locker.

- Power supply to charge electrical devices such as cell phones, laptops...
- Clothes rail with integrated clothes hooks for hanging clothes
- Clothes hooks for hanging clothes
- Drawstrings for leaning on the locker doors
- Object detection

Other options on request.

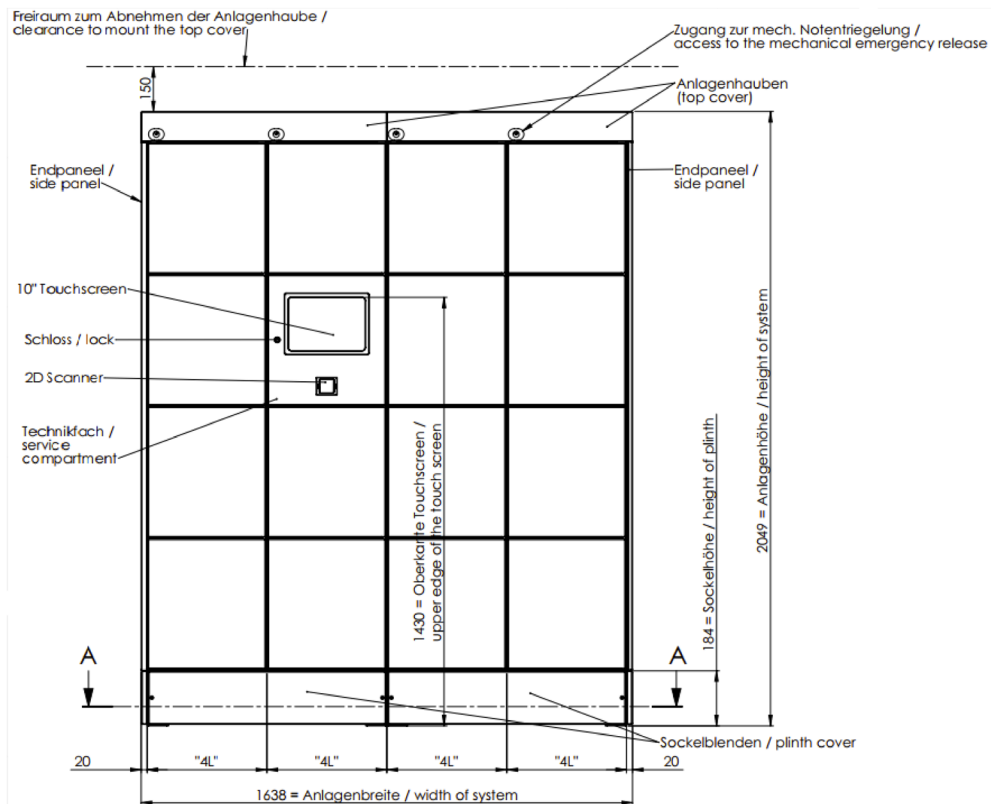
7. Servicebox - Locker sizes



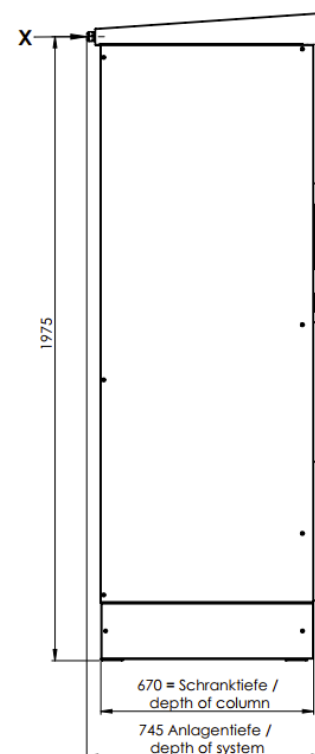
Types of lockers:	Inner dimensions (mm)			
	Width:	Hight:	Depth:	Volume (Liters):
XS-SLIM	200	82	650	10,66
L-SLIM	200	412	650	53,56
MAX-SLIM	200	1732	650	225,16
XS	336	82	650	17,91
S	336	118	650	25,77
M	336	192	650	41,93
XM	336	324	650	70,76
L	336	412	650	89,98
SXL	336	558	650	121,86
XL	336	852	650	186,07
XXL	336	1072	650	234,12
MAX	336	1732	650	378,26
SXL-B	536	558	650	194,40
XL-B	536	852	650	296,83
MAX-B	536	1732	650	603,00

8. Servicebox - Dimensions

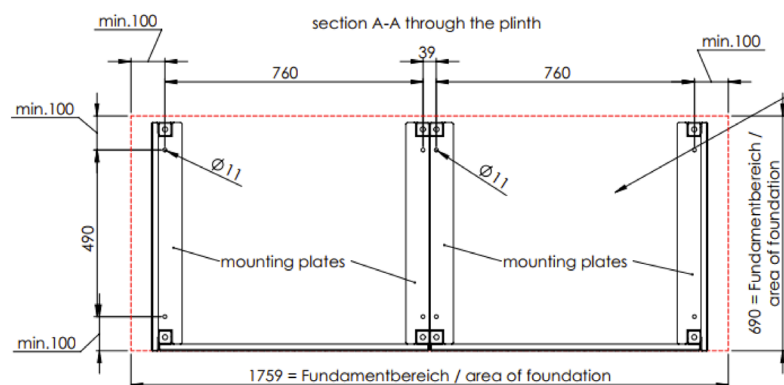
Front view



Side view



Top view



Fundament und Befestigung:
Alle Fundamente müssen eben, lotrecht und frostsicher ausgeführt werden. Befestigung mittels Montageplatten und Hilti HRD-C Rahmendübel Ø10-100/30. Montageplatten können als Bohrschablone verwendet werden.

basement and mounting:
Foundations have to be flat, plane and frostproof. System will be fastened with mounting plates and Hilti HRD-C Ø10-100/30 plugs. Mounting plates can be used as drill templates.

Outer dimensions:

Width	Height	Depth
1638 mm	*2049 mm	745 mm

*System with accessible plinth.

9. Servicebox - Installation location



There are three different types of outdoor installation.

1. Indoor installation:

Rooms in which the locker system is protected from weather influences, salt, direct sunlight and other external influences as well as extreme temperature fluctuations. Room temperature approximately 21°C.

2. Protected outdoor installation:

Protected outdoor locations ensure that the locker system is protected from splash water, rain, snow, hail, salt, direct sunlight on the display, etc. A roofing is recommended.

3. Unprotected outdoor installation:

When installed outdoors, the system is exposed to various weather and environmental conditions, such as rain, snow, hail, road salt, splashing water, and direct sunlight. To ensure reliable and long-lasting operation, special protective measures and the use of high-quality, weather-resistant materials and components are required. This results in higher manufacturing costs.

ADDITIONAL MEASURES FOR OUTDOOR INSTALLATION:

Different criteria are to be considered for the outdoor installation of the locker system:

- Avoid direct sunlight
- Roofing, wind and rain protection are recommended (we offer complete solutions)
- It should be avoided that goods and customers get wet
- It must be avoided that water gets into the lockers
- Regular cleaning of the locker system is recommended
- Avoid extreme weather and temperature conditions
- Dark colors and color-combinations should be avoided

Please discuss your climatic conditions with us in order to find the best solution for you.

Attention: Interference due to EMC level violations or currents (bursts) in the power supply at the installation location may have negative effects on the electronic of locker systems. Such interference can be caused by e.g. non-EMC-compliant elevators, tanning salons, electric distributors, air conditioning and telecommunication technology located in close proximity of the installation location. These interferences can be located, e.g. one floor above or below of the installation location or can be separated by a wall. Additional technical measures are necessary to solve these issues, which would result in additional costs. Please ensure that the installation location is free of such interferences.

Our locker systems require an internet connection. We don't recommend a WLAN solution, for they are usually less reliable and steady and therefore cannot ensure the proper functionality of the locker systems.

10. Servicebox - Material comparsion



1. Columns:

Outdoor:

- Rear wall made of 1,0mm aluminum sheet, powder coated
- Side panel made of 1,0mm stainless steel (class b, c or d, see material selection), raw
- Base/locker bottom/roof made of 1,0mm stainless steel (class b, c or d, see material selection) raw
- Doors made of 1,5mm stainless steel (class b, c or D, see material selection), powder coated
- Each door has a drip edge

Indoor:

- Rear wall made of 1,0mm aluminum sheet, powder coated
- Side panel made of 1,0mm stainless steel (class b, see material selection), raw
- Base/locker bottom/roof made of 1,0mm stainless steel (class b, see material selection), raw
- Doors made of 1,5mm sheet steel (DC01), powder coated
- Without drip edge

2. User station:

Outdoor:

- Rear wall made of 1,0mm aluminum sheet, powder coated
- Side panel made of 1,0mm stainless steel (class b, c or d, see material selection), raw
- Door made of 1,5mm stainless steel (class b, c od. d, see material selection), powder coated
- LS-PC, 10" Touch-Monitor, *USV, 2D-scanner heating, air filter system

Indoor:

- Rear wall made of 1,0mm aluminum sheet, powder coated
- Side panel made of 1,0mm stainless steel (class b, see material selection), raw
- Frame made of 1,5mm sheet steel (DC01), powder coated
- LS-PC, 10" Touch Monitor, *USV, 2D-scanner, air filter system

*To ensure full functionality of the UPS, its rechargeable batteries must be replaced every two years. This can be agreed on in a preventive maintenance contract.

3. Plinth:

Outdoor:

- *Plinth made of 3mm stainless steel (class b, see material selection), powder coated

Indoor:

- Sheet steel (DC01), powder coated

*The plinth is equipped with adjustable feet. Separate covers for the plinth are not included. LockTec regulations must be considered for the installation.

4. Roof:

Outdoor:

- *Locker roof made of 1,5mm aluminum sheet, powder coated

Indoor:

- Locker roof made of 1,5mm aluminum sheet, powder coated

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 of 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 are approved and partially max. triple layer thickness allowed.

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

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

12. Servicebox - Material description



Name of material:

- The addition "raw" in the name of materials indicates that the surface of the material has not been treated. The material is in raw, untreated state. The material comply with the quality delivered by the supplier.

Color spectrum:

- The standard colors range from classic RAL 5001 to RAL 9001. Of course other color variations and coatings are available at additional costs.

Material

a. Aluminum 3.3535

- EN 573-3

b. Stainless steel 1.4301

- DIN EN 10088-3
- Corrosion resistance class 2 (DIN EN 1993-1-4 and general building approval Z-30.3-6)

Typical use cases:

Standard materials for all known applications for accessible constructions and components such as balustrades, railing constructions, covers, fasteners in rural and urban areas with negligible SO₂ and chlorides contamination. Components which are not exposed to rain should be cleaned at least once a year to maintain an optically appealing appearance.

c. Stainless steel 1.4404

- DIN EN 10088-3
- Corrosion resistance class 3 (DIN EN 1993-1-4 and general building approval Z-30.3-6)

Typical use cases:

Standard materials for constructions with moderate exposure to chlorides e.g. de-icing Salts or maritime environment in moderate climate and/or moderate exposure to SO₂ also for constructions and components that are difficult to reach and clean and have a life expectancy of more than 50 years. In case high expectations are placed on optics a suitable surface finish needs to be put into consideration as well.

d. Stainless steel 1.4462

- DIN EN 10088-3
- Corrosion resistance class 4 (DIN EN 1993-1-4 and general building approval Z-30.3-6)

Typical use cases:

Used in case of extreme exposure to chlorides, which may create highly acidic surface film together with e.g. SO₂ or chlorine gas. Higher temperatures may add to that and cause an accumulation of the mentioned substances, especially if there is insufficient irrigation or cleaning. This applies to all use cases where stress corrosion on load-carrying components may occur (swimming pool atmosphere, road tunnels).

13. Servicebox - Special features



- Hinge concept:** Separate hinges make the replacement of locker doors easier. The stainless steel hinges are difficult to reach and manipulate for safety reasons and can only be reached when the locker door is completely open.
- Locking concept:** After closing the locker door manually, the electronic locking locks the door automatically even if the power supply is disconnected. The locking is equipped with alarm contacts and emergency opening. In addition, the locking cannot be closed without the locker door.
- Management Server:** The LS – Management Server is available as “Software as a Service” and gives you full control over several locker systems and makes it easy to observe, control and manage them from one central pc.



14. Servicebox - Interesting facts



Patent:

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.

Experience:

LockTec is a competent and very experienced partner and manufactures a wide range of different locker systems such as luggage lockers for railroad stations, airports, shopping centers..., cool lockers for the unattended handover of food, medicines... for butchers, supermarkets, pharmacies..., service boxes for the unattended handover of tools, documents, valuables... for industrial companies, residential complexes...

Other locker systems

from LockTec

Luggage locker system

Locksafe 5.1



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