**Electric chain goods lift**

**Type: SHERPA®**

**Technical design in compliance with the Machinery Directive2006/42/EC**

This is a tender text for an example installation of a freight elevator of type SHERPA®. All technical specifications mentioned herein are coordinated. Any change to the listed technical specifications may have a significant influence and completely change the information.

This tender text serves only as an example and can be amended by you and used for a request to us regarding a freight elevator. You are welcome to use our online configurator for freight lifts and to configure a freight elevator that is individually tailored to you.

1. **Technical data**

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| Payload: | 2.000 kg,  Goods only, no passengers allowed!!! |
| Axel load: | max. 1.200 kg,  No fork-lift truck, only pallet trucks allowed |
| Lifting height: | 3.750 mm |
| Lifting speed: | 0,2 m/s |
| Number of stops: | 2 |
| Entrances: | 2 |
| Arrange of entrance: | Above each other (one side loading) |
| Cabin size (W x D x H): | 1.400 mm x 2.000 mm x 2.000 mm |
| Outer shaft dimensions (W x D): | 1.770 mm x 2.180 mm |
| Headroom: | 2.650 mm (min. 2.700 mm space for installation) |
| Pit/ceiling breakthroughs (W x D): | 1.850 mm x 2.260 mm |
| Pit: | 90 mm |
| Ramp (H x L): | 90 mm x 1000 mm 🡪 optional if pit is not desired |
| Shaft doors: | 2 Pcs. 2-leaf hinge door in double-walled version, painted in RAL-Classic color, galvanized hinges and aluminum door handles |
| Dimensions of shaft doors (W x H): | 1.400 mm x 2.000 mm |
| Fire protection: | All doors without special fire protection measures |
| Voltage: | 400 V / 50 Hz |
| Power: | Rated power 7.5 kW, rated current 15 A, start-up current 90 A, without frequency inverter (optionally possible) |
| Inspection/maintenance flap: | Above the top shaft closing door of the top stop |
| Supporting elements: | 2 circulating roller chains according toDIN 8187 |
| Safety components: | Pawl device |
| Operation method: | Call and send control via the level tableaus, or by using the cabin tableau |

**Proper use:**

Loading and unloading of the car is only permitted by means of hand-drawn trucks. The maximum nominal load as well as the axle load must be observed. The use of a forklift system leads to extreme overload, resulting in disturbances and damage. Only for the transportation of goods, no passengers allowed.

**Operational environment:**

The goods lift is designed for setting up and using in the interior of the building in dry environments and room temperature.

1. **Shaft**

The goods lift of the SHERPA® freight elevator is a self-supporting steel scaffolding shaft with sheet metal lining. This is always included in the scope of delivery, so no separate wall or concrete shaft is required for lifts without fire protection. The lift shaft is fixed during installation in the area of the pit brine with heavy-duty anchors. Depending on the head, connections on the floor may still be necessary. The lift shaft is galvanized, but not waterproof and weather-resistant. The inspection or maintenance flap is located above the shaft closing door of the top stop. A step-mount ladder for reaching the inspection flap in the shaft head area is supplied as standard.

The shaft head end is closed by a manhole cover. The lift cabin is picked up and sent via the floor tables, which are mounted on the side next to the shaft closing door.

1. **Power unit & supporting elements**

A flat gear motor from Bauer Gear Motor is installed in the goods lift SHERPA®. This is mounted in the shaft head and accessible via the maintenance flap.

The support equipment consists of two roller chains that run along the side of the cabin. The elevator cabin is hung on the chain. The chains correspond to DIN 8187. The load-bearing equipment is based on the Machinery Directive 2006/42/EC.

1. **Connection values & control box**

Operating voltage: AC 400 V, 50 Hz

Rated power: 7.5 kW

Rated current: 15 A

Start-up current: 90 A, without frequency inverter (optionally possible)

**Control box:**

Dimensions (W x H x D): 600 mm x 600 mm x 210 mm

Painting: RAL 7035

Facilities: With main switch, lockable

Position: The control cabinet is located on the side of the shaft in the top stop

1. **Shaft doors**

In each stop, a two-leaf hinged door of the Lödige company, is installed in a double-walled version. The locking corresponds to EN 81-20. The doors are painted in RAL Classic color. Galvanized hinges and aluminum door handles are used on the outside of the shaft.

Above each shaft end door, a door flap is installed, which actuates the door lock when the door is opened. This must be kept free on the construction side.

1. **Cabin**

Cabin floor: The cabin floor is made of smooth sheet with a 2K anti-slip coating in the shade RAL7040 (window grey). The 2K anti-slip coating is an epoxy resin-based, solvent-free and non-slip coating.

Cabin walls: Lamellae construction made of 1.5 mm sheet steel, sendzimir galvanized.

Cabin ceiling: Slat construction made of sheet steel, sendzimir galvanized, not accessible

Deflector strips: 1-row straight deflector strips made of hardwood (100 mm x 20mm), distance bottom edge of cabin bottom: 250 mm

Maintenance flap: Mounted on the side of the cabin walls.

1. **Electric equipment**

* Suspended cables, all other electrical cables, floor tables, fastening material
* Overcharging indicator, cable hand lamp, manhole lighting

**Call and send control**

Calling and sending of the lift cabin can be done of the level tableaus. Passengers can use the lift by using the cabin tableau (push and hold to run).

**Level tableau**

In the goods lift SHERPA®, the floor tables are made of stainless steel and can be arranged either to the left or to the right of the door, but only for double-flying doors. In the case of single-wing doors, the floor tableau is always on the locking side or on the side of the door handle. The floor tables are always equipped with a busy display and a call-send button. If the doors are open or the elevator cabin is in operation, the busy display lights up. In addition, the current position of the car is displayed on the floor displays. Our freight elevator is always equipped with a pick-up and transmitting control and can be called or sent to the respective floor desired by the user with the help of the floor displays.

**Overload display**

An acoustic overload indicator is installed in the SHERPA®. In the event of an overload, a warning tone is emitted via a signal horn integrated in the shaft.

1. **Technical documentation**

Upon delivery of the lift, you will receive a complete documentation of the system in the form of a test book. The documentation is created by our company's internal solution format. No customer-side equipment regulations are taken into account unless explicitly agreed otherwise.

This test book contains the following documents:

* Technical documentation
  + Description of the lift system
  + Electrical schematic
  + Operating and maintenance instructions (1-fold in english)
  + Component descriptions
* CE - Declaration of Conformity
* Signs
* Acceptance certificate / acceptance protocol

1. **Additional options (please mark with a cross)**

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| --- | --- |
| **Part** | **Equipment options** |
| **Shaft** | **( ) Pit or ramp**  You can choose between using a pit and a ramp at the lowest stop. Start-up slant made of steel tear plate, is primed or painted in the same color as the elevator door.  **( ) Accessible rooms below the lift shaft**  If you have accessible rooms below the elevator shaft in your building at the site of the goods lift, you must select this option. In such cases, the use of a catching device/safety gear is mandatory in such cases.  **( ) Painting of the elevator shaft**  On customer request, a complete primer or painting of the elevator shaft is possible. All common Classic RAL shades are available to you. The following colors and metallic colors are not possible: 1026, 2005, 2007, 3024, 3026, 1035, 1036, 2013, 3032, 3033, 4011, 4012, 5025, 5026, 6035, 6036, 7048, 8029, 9022, 9023, 9006, 9007. This option also includes the painting of the elevator cabin. |
| **Door** | **( ) Painting of the shaft doors**  The Lödige elevator doors can be painted in all common Classic RAL colors upon customer request. The following colors and metallic colors are not possible: 1026, 2005, 2007, 3024, 3026, 1035, 1036, 2013, 3032, 3033, 4011, 4012, 5025, 5026, 6035, 6036, 7048, 8029, 9022, 9023, 9006, 9007.  **( ) Doors with door damper**  The door dampers dampen the individual door blades during closing process, so that noises are avoided when the doors are slammed. Furthermore, a door damper spares the door and the door hinges. At the same time, it automatically closes the door to the last millimeter. However, when using a door damper, it is no longer possible to fire protection according to DIN EN 81-58.  **( ) Windows in the door leaf (SHERPA)**  With this option the elevator doors of the SHERPA® are equipped with windows (100 mm x 300 mm) like the ESCORTA®.  **( ) Fire protection**  The Lödige elevator doors with fire protection according to DIN EN 81-58. With this option, the use of door dampers is not possible. The following fire protection classes are possible:  E120, EI5, EW30 or E120, EI15, EW60 |
| **Cabin** | **( ) LED – lighting for the cabin**  Can be optionally ordered with the SHERPA® freight elevator. As with ESCORTA®, an LED panel is integrated into the car ceiling. For this option the use of a car ceiling is mandatory. Without car lighting, the area in front of the entrances must be sufficiently illuminated, therefore we always recommend car lighting.  **( ) Cabin ceiling**  Can be optionally ordered with the SHERPA® freight elevator. Mandatory for car lighting  **Deflector strips**  ( ) Hardwood, 100x20mm,  ( ) 1-row or  ( ) 2-row.  ( ) Plastic in white, black or green, 150x15mm  ( ) 1-row or  ( ) 2-row  Distance bottom edge of cabin floor: 250 mm. Position of the control strips in the elevator cabin can be individually defined on request.  **( ) Load securing**  On request, a retractable unroll protection in the area of doors can be installed over the entire width of the cabin.  **( ) Cabin floor**  Further versions of the cabin floor are possible at the customer's request:  ( ) Steel tear plate (painted in door color)  ( ) Aluminum tear plate |
| **Engine** | **( ) Frequency converter**  The use of a frequency inverter is generally optional in our goods lifts SHERPA® and ESCORTA®. In certain applications, such as high nominal loads, nominal speeds, conveying heights, in the case of fragile or liquid cargo, however, the use of a frequency inverter is necessary or useful. We would be happy to advise you in a personal consultation and find the right solution for you. |
| **Stainless steel** | A stainless-steel version of the goods lift SHERPA® must be requested and clarified individually. However, it is not possible to design clean rooms or according to hygiene regulations. |
| **Maintenance** | **( ) Standard maintenance**  Maintenance cycle: 4x per year  According to DIN13015. Testing of safety and plant functions, adjustment work, lubrication maintenance and cleaning of operational impurities.  Warranty: 2 years  **( ) Full maintenance**  Maintenance cycle: 4x per year  According to DIN13015. Testing of safety and plant functions, adjustment work, lubrication maintenance and cleaning of operational impurities.  Spare parts and repair service (only for reasons for Lödige).  Warranty extension: 5 years |