



## **Tender specification:**

**All doors comply with the following standards and regulations:**

**Lift Directive 2014/33/EU  
EN 81-20/50**

**Car door, two-panel, telescopic, centre opening, K4Z, as high-speed door for fast running lifts with a speed up to  $v=5,0$  m/sec**

Transom: designed as closed box construction with side walls for a high degree of stability and protection against falling dirt, made of zinc-magnesium coated plate for maximum corrosion resistance

Tracking rails: rolled from 4 mm sheet steel, subsequently galvanised; adapted to the roller and kicking roller geometry

Rollers: of cast high-performance polyamide, at least 90 mm diameter, with sealed ball bearings, designed for maximum performance with simultaneous low rolling noise

Kicking rollers: of plastic with excentric bolt, are positioned positively on the tracking rails to ensure a smooth running of the door panels

Door panel/hanger connection: with the aid of eyebolts, thus door panels steplessly adjustable in terms of height and depth

Skate system: Double skate (one skate on each half of the door) as moving expansion skate with third bracket for actuation of restrictor mechanism / zone locking required in accordance with EN 81-20; in special design for increased clearance between the hook rollers for high speed

Door panels: double-skin, with labyrinth above, with labyrinth of at least 8 mm width on the closing edge, made of zinc-magnesium coated plates, immediately ready for painting without any preparations

Modern door drive with bluetooth connection, low energy, one controller and one transformer for all motor configurations, also for DC- and EC-motors.

Powerful drives that employ the latest motor technology (200 kg, 400 kg, 800 kg) with their own intelligence. CanOpen interface as standard. Temperature sensor, controller and motor communicate via CanOpen. EC-drives: frequency control is located inside the motor for not pulling the frequencies over the complete wire. With absolute and incremental encoder. EC- and DC-motors in the same design (retrofit).

Motor protection class IP 54 as standard.

Guide shoes: with two independent guide elements (each 100 mm long, 3 mm thick) with plastic sliders, which can be replaced without removing the door panels; every guide element each with two fastening screws and two set screws for being able to appropriately adjust the panels in the running direction; the guide elements are directly fastened in the lower area of the door panel via screws with the door panel and the welded U-sheet channel

Sill: Aluminium profile sill with max. 7 mm wide grooves in order to prevent the ingress of grit, pebbles or others, which could result in door failures

Toe guard: 750 mm long, made of zinc-magnesium coated sheet steel, with the strength according to EN 81-20

### **OPTIONS:**

Door panels: with labyrinth above, with labyrinth of at least 8 mm width on the closing edge, visible side clad with stainless steel 1.4301 (AISI 304), 240 grit / leather pattern / linen pattern / rhombus pattern / special material / with mineral wool filling

Door panels: with labyrinth above, with labyrinth of at least 8 mm width on the closing edge, powder-coated according to RAL .... / with mineral wool filling

FingerGuard System: To prevent fingers and hands of children from getting caught at glass doors, landing doors are equipped with the "FingerGuard" system which consists of two components: Detectors at the door panels, braking circuit at the AT 40 door drive; this results in a recognition of fingers or other objects on the glass pane before drawing them in and causes an immediate stoppage of door movement

Sill: as aluminium solid sill for loads of up to 10 tons

Sill: as hidden track, the guides are installed 70 mm deep in the shaft, the cover plate 3.0 mm thick is totally flat and does not have any guide grooves, anti-slip class: R ??

Sill: as hidden track, the guides are installed 70 mm deep in the shaft, the cover plate 3.0 mm thick is totally flat and does not have any guide grooves, the cover plate is offset downwards in order to be able to bring an on-site floor directly up to the landing edge.

Sill: made of stainless steel, material 1.4301 (AISI 304), consisting of rolled profile on a base plate (2.0 mm thick), covered with a folded cover plate (3.0 mm thick), guide grooves cannot be seen when door panels are closed; wheel load 1.8 tons