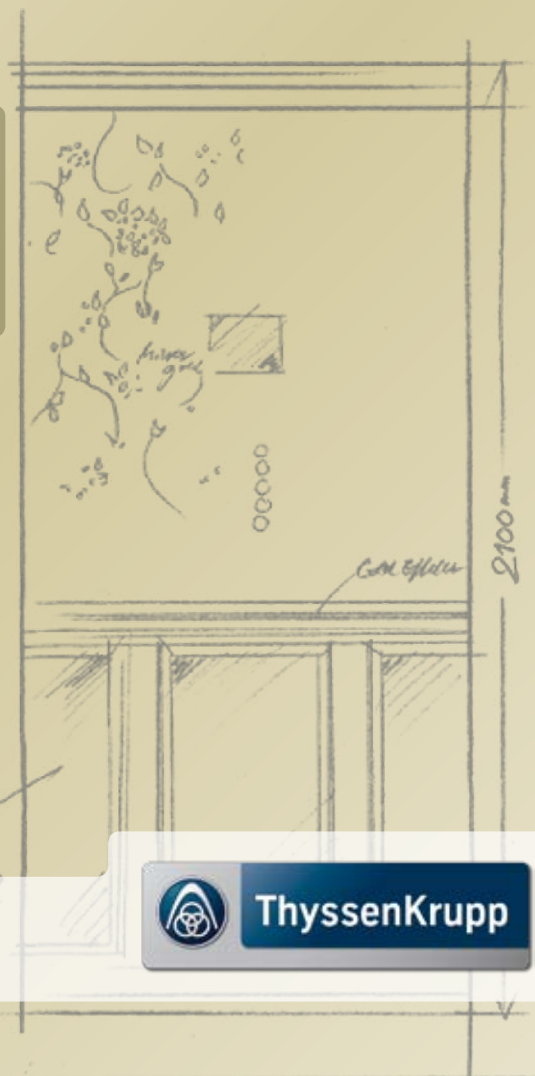




Home Elevators 6-series, 7-series

# Technical Specifications



**ThyssenKrupp Encasa**  
Life in motion.



**ThyssenKrupp**

# Home elevator

## 6-series, 7-series

### Technical Specifications rev.01

#### Main Characteristics

The machine comprises a loading surface which moves vertically along two guides fitted to one of the shaft walls. Hinged and/or sliding doors provide floor access.

#### Installation

The machine shall be installed in a completely smooth shaft with no protrusions or recesses. Maximum protrusion, if anywise:  $\leq 1,5$  mm. Maximum protrusion, if with bevelling less than  $15^\circ$  with respect to the vertical: 5 mm.

#### Guides

T70/B ISO 7465 profiles. Polyurethane wheels for the car frame movement.

#### Guide Anchorage

Possible in four solutions:

- > with Halfen wall brackets and M12 bolts;
- > with mechanical expansion bolts in steel  $\varnothing 14$  (only for reinforced concrete walls);
- > with feed-through threaded bars;
- > via welding to the prepared structure.

#### Movement

The machine is equipped with a ropes and counter-weight system that allows the lift by using metal ropes (D.8 8x19 S-IWRC 1570 USZ) and a gearless motor with permanent magnets and a suspension ratio of 2:1.

#### Travel

Maximum travel: 18 m, maximum number of stops: 6, maximum number of services: 12, maximum 2 accesses for each stop.

#### Speed

0,15 m/s with ascending/descending acceleration/deceleration ramps in the start and stop phases controlled by inverter.

#### Rated Load

400 kg

#### Standard Dimensions

The machine shall be installed in a masonry shaft with a pit with a minimum depth of 70 mm (127 mm for the aluminum shaft applications), the maximum value is 250 mm. The minimum headroom height required shall be 2500 mm. The machine mechanism encumbrances are: depth: 315 mm, width: 1200 mm.

#### Masonry Shaft Dimensions

The machine shall be installed in a masonry shaft with the following minimum dimensions (width x depth):

Sliding cabin door/s - Sliding landing doors:

- > *Frontal access*: 1200 mm x 1405 mm
- > *Lateral access*: 1395 mm x 1245 mm
- > *Opposite accesses*: 1560 mm x 1245 mm
- > *Adjacent accesses*: 1395 mm x 1405 mm

Sliding cabin door/s - Hinged landing doors:

- > *Frontal access*: 1200 mm x 1310 mm
- > *Lateral access*: 1300 mm x 1245 mm
- > *Opposite accesses*: 1370 mm x 1245 mm
- > *Adjacent accesses*: 1300 mm x 1310 mm

Further details regarding the plan configurations are available on the commercial documentation.



#### Metal Shaft

The structure of the aluminum lift enclosure consists of extruded profiles in 6063 T6 aluminum alloy.

Each profile is anodized (degree of penetration between 8 and 20 microns) to protect it from corrosion. Painting (available upon request) is in polyester powders.

The aluminum lift enclosure is intended for use in environments with temperatures between  $-20^\circ\text{C}$  and  $+60^\circ\text{C}$ . Resists aliphatic solvents, alcohol, diluted acids. Does not resist alkali, ketonic solvents and chlorinates.

Each structure produced is tested with the methods indicated by construction science and meets current safety standards: EN 81-1/2 "Safety rules for the construction and installation of lifts", CNR-UNI 8634 "Aluminium alloy structures. Instructions for design and construction".

Available finishing: Natural anodized, Epoxy-polyester paint (RAL painted), Silver polished finish.

### Aluminium Shaft Dimensions

The machine shall be installed in an aluminum shaft with the following minimum dimensions (external width x external depth):

Sliding cabin door/s - Sliding landing doors:

- > *Frontal access:* 1280 mm x 1540 mm
- > *Lateral access:* 1495 mm x 1360 mm
- > *Opposite accesses:* 1680 mm x 1360 mm
- > *Adjacent accesses:* 1495 mm x 1540 mm

Sliding cabin door/s - Hinged landing doors:

- > *Frontal access:* 1280 mm x 1435 mm
- > *Lateral access:* 1390 mm x 1360 mm
- > *Opposite accesses:* 1470 mm x 1360 mm
- > *Adjacent accesses:* 1390 mm x 1435 mm

Further details regarding the plan configurations are available on the commercial documentation.

### Cabin Dimensions

The internal clear area (width x depth) varies in relation to the styles and the access/es configuration, minimum dimensions for a 6-series cabin are:

- > *Frontal access:* 1090 mm x 845 mm
- > *Lateral access:* 1120 mm x 850 mm
- > *Opposite accesses:* 1120 mm x 850 mm
- > *Adjacent accesses:* 1120 mm x 845 mm

Further details are available on the commercial documentation.

The inner height is 2100 mm.

### Controls

- > Inner controls: automatic controls, floor pushbuttons, acoustic floor indications and display with visual indications (floor number, emergency alerts, automatic operations alerts, date, hour);
- > Outer controls: automatic controls, floor pushbuttons with lighting indications "platform available/not available".



### Cabin Layout 6-series

Cabin walls can be realized in:

- > skin plate (load-bearing wall panels, total wall thickness 25 mm, solid construction with vertical panels, standard width about 280 mm)
- > stainless steel (load bearing wall panels, total wall thickness 25 mm, solid construction with vertical panels, standard width about 280 mm)

Cabin floor can be realized in:

- > PVC (thickness 2 or 3 mm)
- > Rocksolid marble grit (thickness 6 mm fixing by glue)

The Cabin ceiling can be realized using a suspended structure made of satin stainless steel.

Additional details:

On the guide side it will be always available the control operating panel with a LCD display (65K colors), s.steel pushbuttons, autodialer for emergency calls.

Additional options: panoramic cabin wall, mirror half or full height, handrails in stainless steel, baseboard in stainless steel.



## Cabin Layout 7-series

### “Noble” configuration

Cabin wall made of veneered wood with decorative surface and raised mouldings, dark oak or dark walnut essences.

Cabin floor made of solid wood with decorative surface and central inlayer.

Cabin operating panel made of same material of the wall panel.

Cabin ceiling made of same material of the wall panel. 4 spot lights with gold effect ring (diameter 110mm).

Handrail in stainless steel gold finishing, diameter 40 mm.

Additional details:

On the guide side it will be always available the control operating panel with a LCD display (65K colors), s.steel pushbuttons, autodialer for emergency calls.



### “Romantic” configuration

Cabin wall made of white veneered wood with raised mouldings in the lower part and textile wallpaper in the upper part.

Cabin floor made of vinyl (printed pattern wood light oak, thickness 2,5 mm).

Cabin operating panel made of same material of the wall panel.

Cabin ceiling made of white varnished wood with raised mouldings on the perimeter. Embedded light opal glass.

Handrail in stainless steel gold finishing, diameter 40 mm.

Additional details:

On the guide side it will be always available the control operating panel with a LCD display (65K colors), s.steel pushbuttons, autodialer for emergency calls.



### “Cool” configuration

Cabin wall made of veneered wood with s.steel inlayers, dark ebony or dark oak essences.

Cabin floor made of marble grit (rocksolid 630).

Cabin operating panel made of same material of the wall panel.

Cabin ceiling made of a glass panel.

Handrail in stainless steel polished finishing, diameter 40 mm.

Additional details:

On the guide side it will be always available the control operating panel with a LCD display (65K colors), s.steel pushbuttons, autodialer for emergency calls.



## Cabin Layout 7-series

### “Natural” configuration

Cabin wall made of black painted structure and wooden battens (20 mm x 28 mm) applied on the structure with a polished treatment on the 3 visible sides.

Cabin floor made of marble grit (rocksolid touch 2404).

Cabin operating panel made of same material of the wall panel with a central part in stainless steel for Display and pushbuttons (600 mm x 230 mm).

Cabin ceiling made of polished wood.

Additional details:

On the guide side it will be always available the control operating panel with a LCD display (65K colors), s.steel pushbuttons, autodialer for emergency calls.



### “Opulent” configuration

Cabin wall made of MDF panel with undulating shape and a gold leaf finish in the lower part and 30 mm Leather Pad on a support in the upper part.

Cabin floor made of marble grit (rocksolid touch 2404).

Cabin operating panel made of same material of the wall panel in the lower part and s.steel mirror effect in the upper part.

Cabin ceiling made of same material of the wall panel in the lower part. 4 spot lights with gold effect ring (diameter 110mm).

Additional details:

On the guide side it will be always available the control operating panel with a LCD display (65K colors), s.steel pushbuttons, autodialer for emergency calls.



### Cabin Door/s

It is possible to provide 2 sliding cabin doors maximum (opposite accesses or adjacent accesses configurations). The sliding doors are composed by a frame and 2 moving panels in case of lateral opening or 4 moving panels in case of central opening. Frame and panels can be made of: RAL painted steel, steel covered with stainless steel (s.steel 304 grit 240, s.steel 304 mirror effect, s.steel 304 gold mirror effect) or steel "glass version" with frames covered with stainless steel (s.steel 304 grit 240, s.steel 304 mirror effect, s.steel 304 gold mirror effect, frame measurements: 50 mm on the top and side parts, 105 mm on the lower part). Clear access depend on the cabin dimensions and can be 600 mm, 700 mm, 750 mm, 800 mm or 900 mm.

### Landing Door/s

Two versions are available: hinged doors or sliding doors.

#### *Hinged doors*

Made of aluminium, panoramic version. Frame 100 mm. Available finishing: Natural anodized, Epoxy-polyester paint (RAL painted), Silver polished finish. Clear access depend on the cabin dimensions and can be 600 mm, 700 mm, 750 mm, 800 mm or 900 mm.

#### *Sliding doors*

The sliding doors are composed by a door frame and 2 moving panels in case of lateral opening or 4 moving panels in case of central opening. Frame and panels can be made of: RAL painted steel, steel covered with stainless steel (s.steel 304 grit 240, s.steel 304 mirror effect, s.steel 304 gold mirror effect) or steel "glass version" with frame covered with stainless steel (s.steel 304 grit 240, s.steel 304 mirror effect, s.steel 304 gold mirror effect, frame measurements: 50 mm on the top and side parts, 105 mm on the lower part). Clear access depend on the cabin dimensions and can be 600 mm, 700 mm, 750 mm, 800 mm or 900 mm.



### Door Floor Levelling

Floor levelling operates automatically at the smallest displacement, in order to keep the platform lift floor aligned with the landing floor.

### Motor

Three-phase 230 V, 50/60 Hz; 1,5 kW.

### Electricity Supply

230 V  $\pm$  10%, 50/60 Hz singlephase, with earthing conductor.

Rated current drawn: 4,5 A.

Maximum stand-by power consumption 38 W  $\pm$  10%.

Auxiliary power supplier: Supply for onboard auxiliary circuit via flexible and flat multi-conductor cable.

### Electrical Panel

The electrical panel (dim. 500x2100x250) shall be positioned at the upper floor, close to the landing door. The box is made of steel. Inside the box, in addition to the transformer, the safety devices and the electronic boards, there are also the inverter that manages the gearless motor and a UPS system that guarantee the chosen travel in case of power outage.



### Electrical, Electro-mechanical Safety Features

UPS system for the machine operation in case of power outage, electro-mechanical blocking system should even ropes loosen, over-speed governor against descent acceleration, double brake on the gearless motor, lock with safety switch for door closure and approach control, electro-mechanical limit switch, metal structure earth connection, header strut, safety pillar and emergency pushbutton in the pit for the maintenance activities, 24 Vcc auxiliary electrical system.

### Mechanical Safety Features

Instantaneous grip safety stop, double lifting ropes, door opening via safety keys.

### Other Features

Automatic descent to the ground floor, overload system.

### Type Approval

CE, TÜV

### Regulation Compliance

Machine Directive 2006/42/CE

### Contents

Modules to assemble on site with bolt connections, 24 months guarantee, compliance declaration (in accordance with stipulations in Machine Directive 2006/42/EC).

### Customer Responsibilities

Necessary building works and modifications, connection of electricity lines from the building switchboard to the machine control panel; telephone line connections in accordance with existing legislation, endurance guarantee for the interface between the building and the platform lift (shaft walls).



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