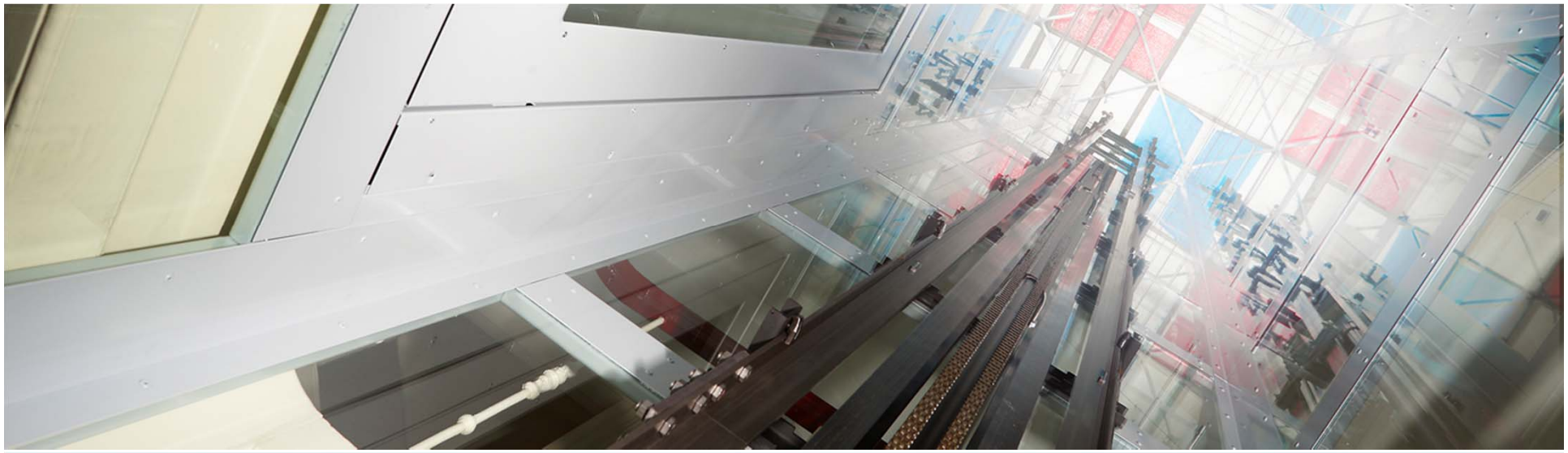


Vertical platform lifts – Orion/Gulliver
Product presentation

Product Management Platform Lifts

ThyssenKrupp Encasa

ThyssenKrupp

Table of contents

Key technical data

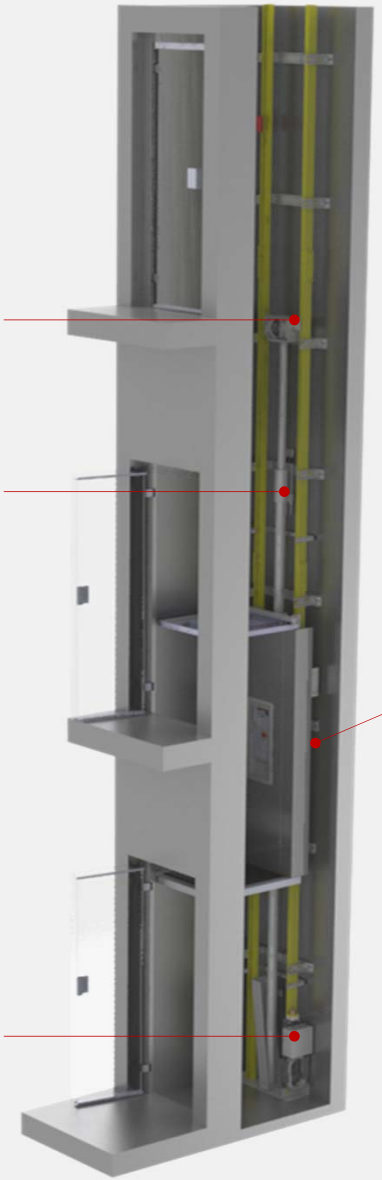
Key technical data
Table of contents

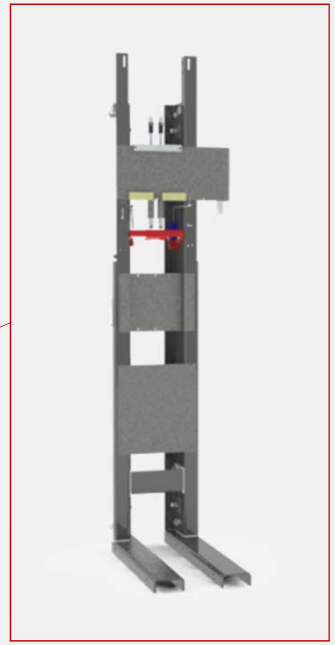
Key technical data
Mechanics data

Guides: T70 profile.
Nylon sliding blocks and wheels for arcade movement.

Lifting technology: Hydraulic cylinder with chrome stem and flyer transmission chain
Oleodynamic control unit with compact immersed motor structure and 40-litre tank, HS32 hydraulic oil, viscosity 32 cSt (to be placed in a specific case with the electrical panel).

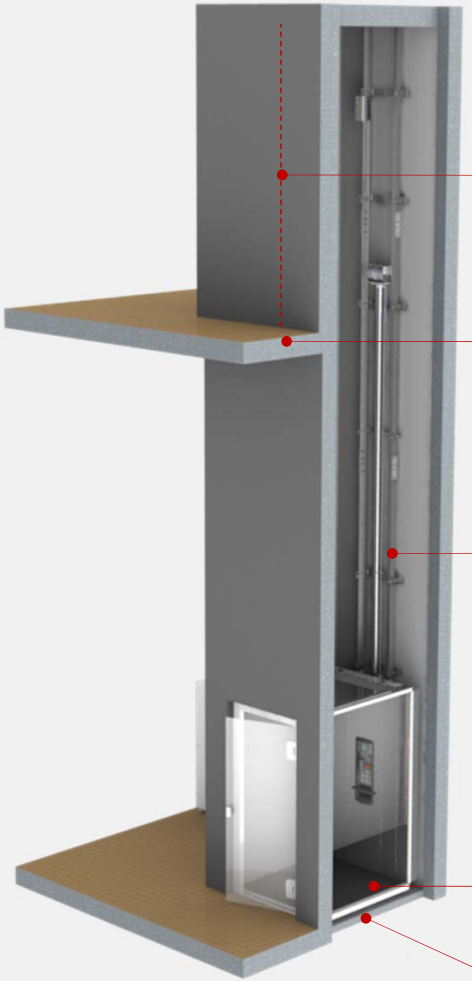
Safety devices in pit: Safety pillar, emergency stop button.





Car frame: composed by two car profiles and connection crossbeams. The car profiles are assembled in the factory and the top wired crossbeam allows a quick and easy cables connections. Instantaneous grip safety stop shown in red in the picture.

Key technical data
Mechanics data



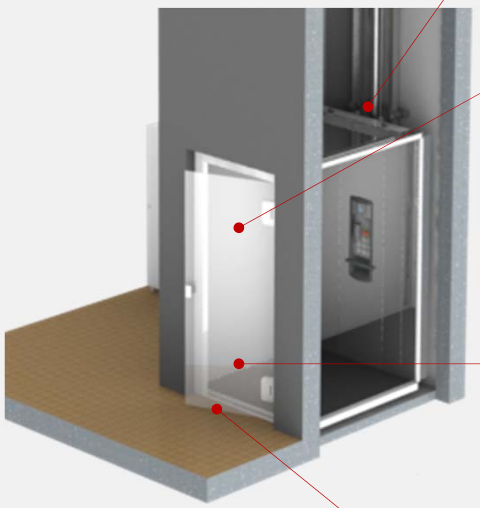
Headroom: min. 2050 mm
(only basic cabin) or 2200 mm

Stops: max. 5

Travel: up to 15,1 m

Rated load: 300 kg /400 kg

Pit: min. 100 mm



Machine
encumbrance: 260 mm

Door type:
- Steel
- Galvanized steel
- Wooden covered
- Aluminum
- Fire proof (60/120)
- All glass

Door height: 2000 mm
or 2100 mm (as optional)
Door frame: 100 mm (60
mm for narrow vers.)

Accesses: 3 accessible side for protection, protection with ceiling, basic cabin and Elegance cabin. Frontal, lateral,
opposite and adiacent access/es configurations for cabin with auto. doors

Key technical data
Electric / Electronic data

The electric / electronic devices are:

- **MAINBOARD:** it is an electronic board equipped by three microcontrollers that manages all the machine operation features (machine movement, floors identification, safeties management).
- **POWERBOARD:** it is an electronic board equipped by two contactors that provides the power supply to the motor.
- **CABIN DOOR BOARD (only on the cabin with auto. doors):** it is an electronic board that manages the cabin door/s opening depending on the floor and basing on the information coming from the sensors on the machine.
- **SENSORS:** sensors with reed contacts (NO type) installed on the car frame. There are three sensors to identify the floor and two sensors to manage the floor leveling and the acceleration / deceleration ramps.
- **MAGNETS:** magnetic plates positioned on the machine guides to identify the floors.

Key technical data
Technical specifications

Lifting system:	Hydraulic cylinder lifting with oleodynamic control unit
Motor:	230 V single-phase, 50 Hz
Power supply:	230 ± 10% V single-phase, 50 Hz
Power consumption:	1,8 kW – 2,2 kW (5 ± 10% W in stand-by)
Rated load:	300 kg and/or 400 kg
Speed:	0,15 m/s
Travel:	Max. 15.1 m
Stops:	Max. 5
Headroom:	Min. 2050 mm (basic cabin), min. 2200 mm (any type of car)
Pit:	Min. 100 mm – Max. 120 mm
Guide wall width:	“Narrow” vers.: 660 mm (OR), 730 mm (GU) – Std vers.: 720 mm (OR), 800 mm (GU)
Footprint area:	Max. 1,72 m^2

Key technical data
Car availabilities

Available cars:

Protection
Just platform with a panel covering the guide side.

Panel height 2100 mm. Galvanized steel or central stave in stainless steel and lateral staves in plastic sheeting “skin plate” available in 6 colours or completely in stainless steel. Control panel with display, Braille control buttons, plastic handrail integrated and telephone device. Internal lighting, emergency lighting.

Protection with ceiling:
Platform with guide side panel and reinforced ceiling with 2 corner posts fitted in front of the guide side.

Panel height 2100 mm. Galvanized steel or central stave in stainless steel and lateral staves in plastic sheeting “skin plate” available in 6 colours or completely in stainless steel. Control panel with display, Braille control buttons, plastic handrail integrated and telephone device. Internal lighting, emergency lighting, non-walkable roof.

Basic cabin:
3 accesses possible.
Internal standard height 2100mm.

Central stave in stainless steel and lateral staves in plastic sheeting “skin plate” available in 6 colours or completely in stainless steel. Control panel with display, Braille control buttons, plastic handrail integrated and telephone device (intercom available on request instead of telephone). Internal lighting, emergency lighting.

Cabin with auto. doors:
2 accesses possible.
Internal standard height 2100mm.

Central stave in stainless steel and lateral staves in plastic sheeting “skin plate” available in 6 colours or completely in stainless steel. **Automatic folding door/s available in RAL painted steel or stainless steel.** Control panel with display, Braille control buttons, plastic handrail integrated and telephone device. Internal lighting, emergency lighting.

Elegance cabin:
Wide range of finishes
3 accesses possible.
Internal standard height 2100mm.

Cabin push buttons with emergency light. Autodialer (safety device - call 7 emergency phone numbers). Delayed light switch-off, Photocells.

Key technical data
Car availabilities

Protections and Cabins walls have the following finishes:

Central stave – Skin plate vers.

FPPS12
S.Steel like

Central stave – S.Steel vers.

S.Steel
Satin finish

Lateral staves – Skin plate vers.

V14
water green

N1
Sand grey

A4
milk

G1
cream

B13
blue

F12PPS
S.Steel like

Lateral staves – Skin plate vers.

S.Steel
Satin finish

S.Steel
Linen like finish

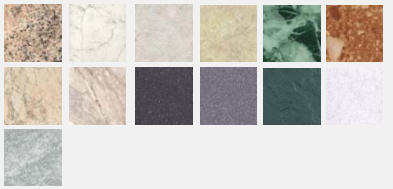
Key technical data
Car availabilities

Elegance cabin walls have the following finishes:

Plaincolors

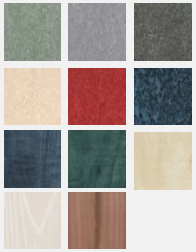
Mother of pearl

Stones



Woods

Iridescent woods



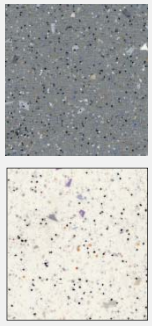
Metals & shiny metals

Digital collection

Key technical data
Car availabilities

The floors have the following finishes:

PVC



Rocksolid

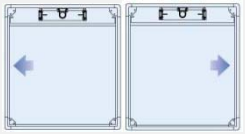
Parquet

PVC & Aluminum

Key technical data
Cabin and shaft dimensions

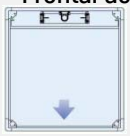
Protection and Protection with ceiling – Required shaft dimensions:

Lateral access



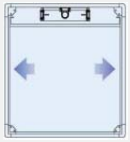
Lcab = Lshaft – 40 mm / Pcab = Pshaft – 280 mm

Frontal access



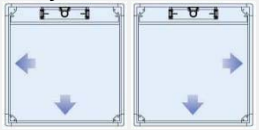
Lcab = Lshaft – 40 mm / Pcab = Pshaft – 280 mm

Opposite accesses



Lcab = Lshaft – 40 mm / Pcab = Pshaft – 280 mm

Adjacent accesses

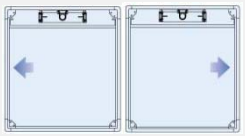


Lcab = Lshaft – 40 mm / Pcab = Pshaft – 280 mm

Key technical data
Cabin and shaft dimensions

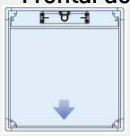
Cabin – Required shaft dimensions:

Lateral access



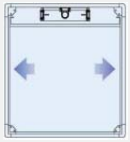
Lcab = Lshaft – 90 mm / Pcab = Pshaft – 320 mm

Frontal access



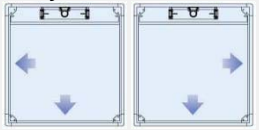
Lcab = Lshaft – 120 mm / Pcab = Pshaft – 290 mm

Opposite accesses



Lcab = Lshaft – 60 mm / Pcab = Pshaft – 320 mm

Adjacent accesses

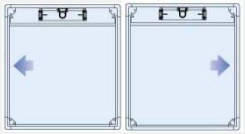


Lcab = Lshaft – 90 mm / Pcab = Pshaft – 290 mm

Key technical data
Cabin and shaft dimensions

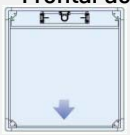
Cabin with auto. doors – Required shaft dimensions:

Lateral access



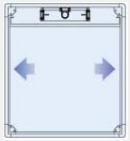
Lcab = Lshaft – 110 mm / Pcab = Pshaft – 320 mm

Frontal access



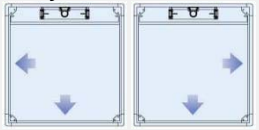
Lcab = Lshaft – 120 mm / Pcab = Pshaft – 310 mm

Opposite accesses



Lcab = Lshaft – 100 mm / Pcab = Pshaft – 320 mm

Adjacent accesses

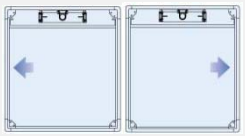


Lcab = Lshaft – 110 mm / Pcab = Pshaft – 310 mm

Key technical data
Cabin and shaft dimensions

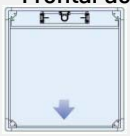
Elegance cabin – Required shaft dimensions:

Lateral access



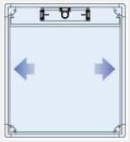
Lcab = Lshaft – 85 mm / Pcab = Pshaft – 300 mm

Frontal access



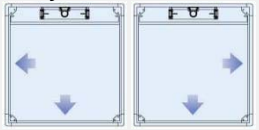
Lcab = Lshaft – 115 mm / Pcab = Pshaft – 275 mm

Opposite accesses



Lcab = Lshaft – 60 mm / Pcab = Pshaft – 300 mm

Adjacent accesses



Lcab = Lshaft – 85 mm / Pcab = Pshaft – 275 mm

Benefits

Benefits
Table of contents

- Simple technology
- Space efficiency
- Power efficiency
- Wide range of sizes and finishes
- Customized solutions

Benefits
Simple technology

The drive system of Orion / Gulliver is based on the most widely known hydraulic technology.
Roundly 3 of 4 vertical platform lifts in Europe are hydraulic. It means:

- Simple technology, reliable, affordable and low cost for maintenance and operation.
- No need for lubrication.
- Comfortable and Soft operation. Rapid response to commands.
- You'd hear only a whistle when the lift is effortlessly moving up and down.
- Long operation life, providing safe functioning and high reliability.
- Reduced dimension for fixed and movable parts will assure an effective use of the available space in each configuration.

Benefits
Space efficiency

Space usage efficiency. The higher useful area is the narrowest floor space.
The minimum required width is 660 mm (platform: 620 mm) for Orion model and 730 mm (platform: 629) for Gulliver model.

Benefits
Power efficiency

Orion and Gulliver have a low energy consumption comparable to a household appliance by using the normal 230V single phase supply.
Motor size is choosen into the factory within three power classes of 1,5 kW, 1,8 kW or 2,2 kW according to the machine features and specifications. The stand-by power consumption is only 4-5 W.

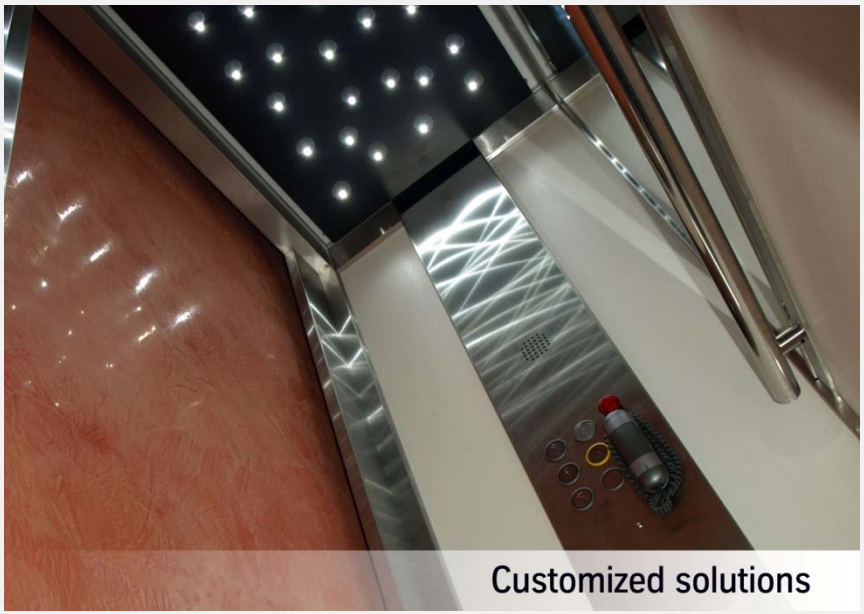
Benefits

Wide range of sizes and finishes

More than 60 different standard plans to fit any architectural environment.
Platforms are customizable millimeter by millimeter with solutions focused on specific needs.
Each car type can be chosen within different dimensions. Possible cars are:

- Protection: one wall including the control panel.
- Protection with ceiling: one wall including the control panel and a ceiling with spot lights.
- Cabin: Cabin with one, two or three wall/s including the control panel and a ceiling with spot lights.
- Cabin with automatic doors: Cabin with two or three walls including the control panel and a ceiling with spot lights.
  One or two automatic folding door/s to allow “Push&Run” operations from the inner controls.
- Elegance: top quality choice for the most demanding Customers. Wide range of personalizations and high-quality materials.

Benefits
Customized solutions



In addition to the variety of options and related combinations, our technical staff offers the best support to find out customized solutions to any particular request of the Customer.
ThyssenKrupp Encasa is an effective and professional partner in designing and developing tailor-made solutions.

Applications

Applications
Table of contents

Applications
Masonry shaft

Shaft characteristics

- The machine shall be installed in a completely smooth masonry shaft with no protrusions or recesses.
- Maximum protrusion, if arriswise: ≤ 1,5 mm.
- Maximum protrusion, if with bevelling less than 15° with respect to the vertical: 5 mm.

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).

Applications
Metal shaft

Metal shaft characteristics

Made with galvanized profiles in EN 10142-Fand P02 GZ275 MC CO cold bent. Available on request: epoxy polyester powder paint finishing (internally) or RAL painted polyester finishing. Panels made of VISARM 10/11 break-proof glass (transparent, smoky grey, smoky satin, opaline, half-reflecting) or with blind panels (MDF wooden panels, ABET laminated panels, galvanized panels). Shaft roof also available on request.

Customer resposibilities

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. Guarantee for interface between the platform lift and the building (platform support base and connection areas between the building and the metal compartment), in relation to the loads indicated in the manuals provided with the machine.

Applications
Metal shaft

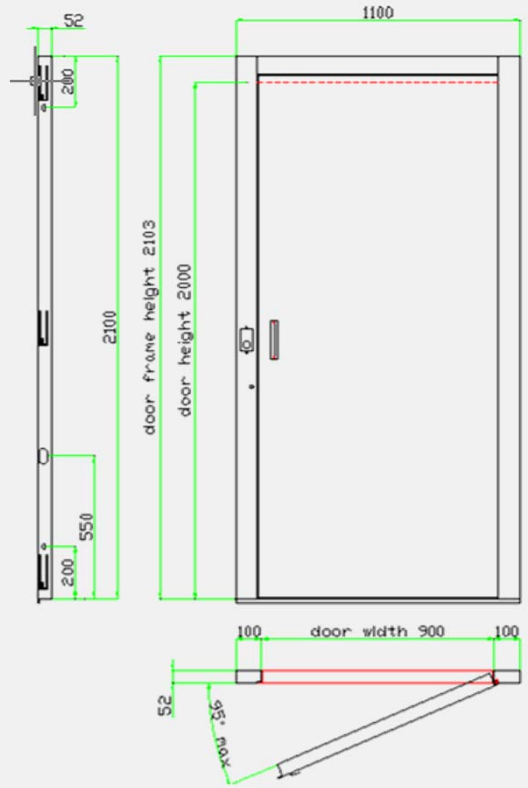
- **Material:** galvanized iron
- **Colour:** RAL to be chosen
- **Dimensions:** minimum width 730 mm
- **Sizes:** more than 50 standard plans
- **Panels:** galvanized steel, safety glasses 10/11, MDF wood, ABET laminated
- **Application:** indoors and outdoors
- **Top cover:** diagonals, flat, rain proof
- **Doors:** fitted on the shaft

Applications
Landing doors

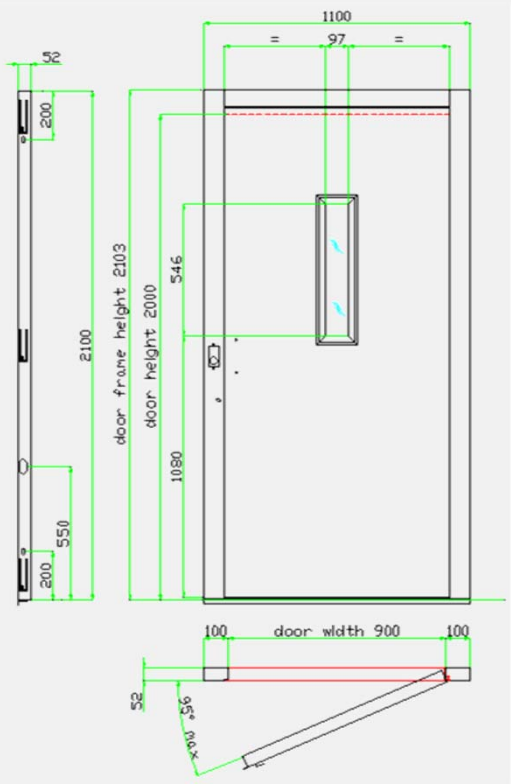
Blind	Small window	Panoramic
		

Applications
Landing doors

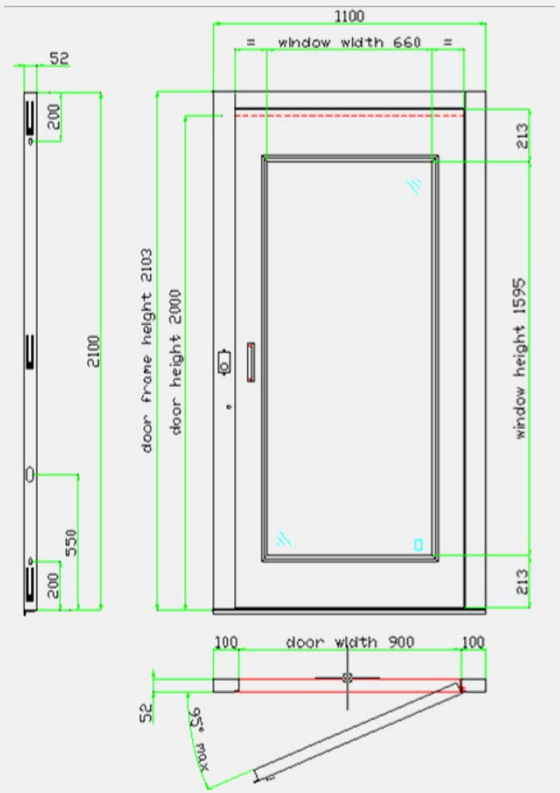
Blind



Small window



Panoramic



Applications
Landing doors

Stainless steel	Aluminum	Wood covered	All glass

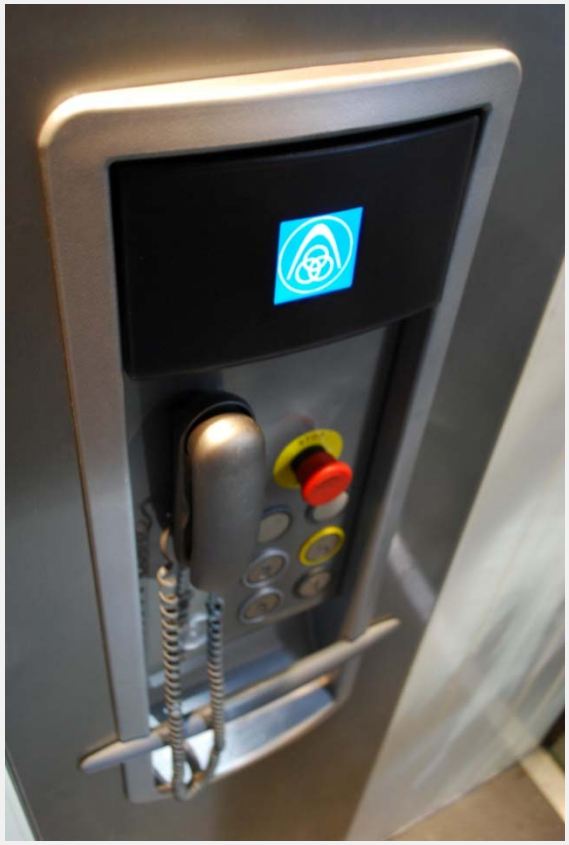
Stainless steel doors: Coated for indoor, completely made of s.steel for outdoor (RAL painting mandatory)
Aluminum doors: available in AD01 “Anodized s.steel like”, AD02 “Michelangelo grey”, AD03 “Natural anodized”, AD04 “Pearl white”, AD05 “Silver grey”
Wooden covered: available in the essences WD01 “Oak”, WD02 “Mahogany”, WD03 “Chestnut”, WD04 “Walnut”. Inside surface RAL painted accordingly to the wood essence. The wood covering is customizable by the Customer.

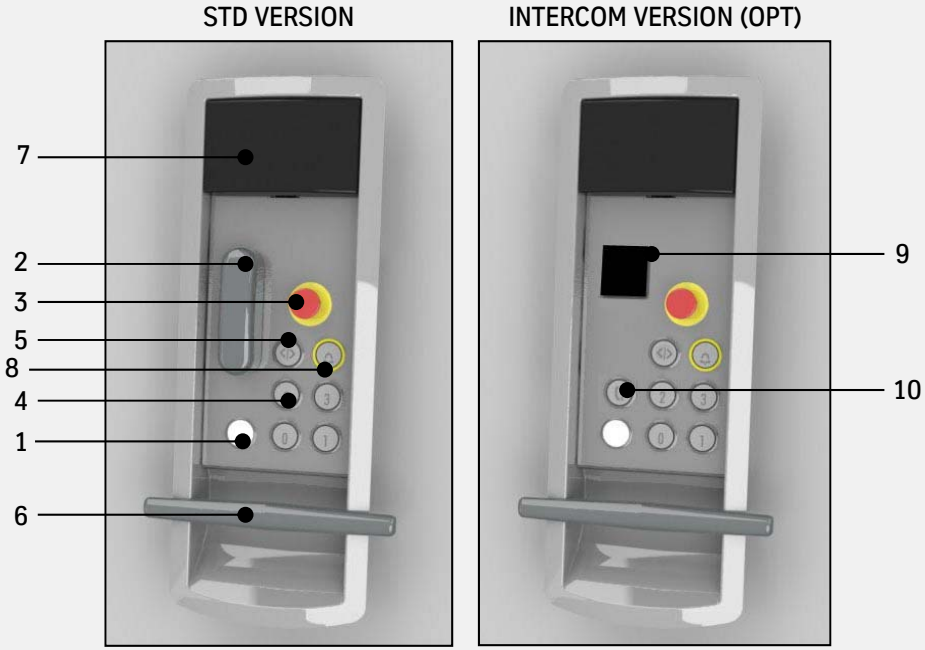
Main components and options

Main components and options
Table of contents

Main components and options
Main components

Control panel

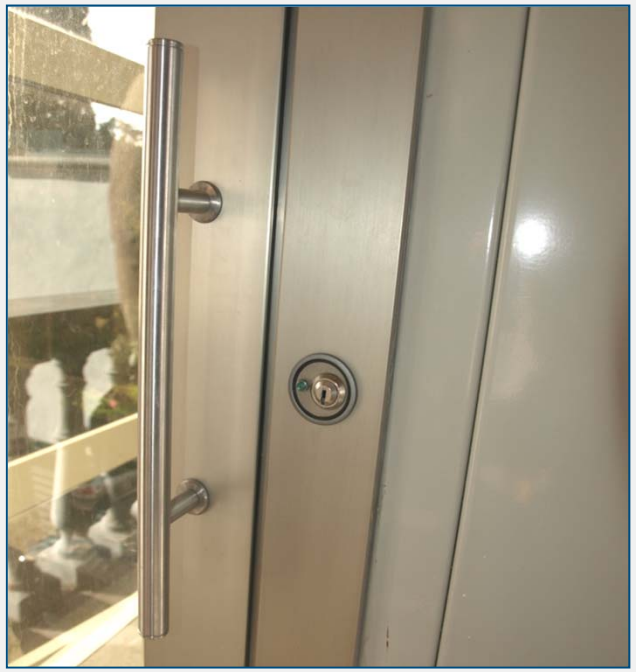




1 - Emergency light
2 - Telephone
3 - Emergency Button
4 - Command Button
5 - Cabin Door Re-Open Button
6 - Handle
7 - Display
8 - Alarm button
9 - Intercom/Emergency Telephone
10 - Actuation button for the Intercom/Telephone Combiner: pushing this button the safety device is actuated.

Main components and options
Doors options

School locking system
The push button is replaced by an instable key switch



The door locks off after an adjustable time
(2 minutes default) when it is closed

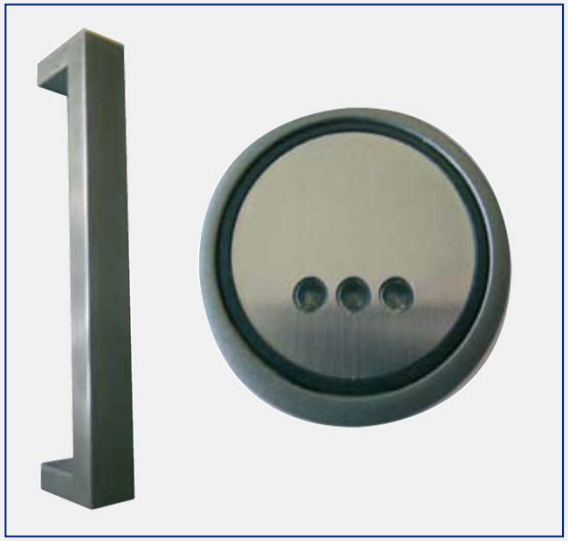
Main components and options
Doors options

EVO automatic door-opener

GULLIVER model: standard door total height is 2100 mm
ORION model: door total height is 2140 mm

Main components and options
Doors options

Handles and pushbuttons



Techno

Stainless steel handle and coordinated button [standard]

Classic

Coordinated handles and buttons: bright brass, glazed brass, bright chromium plated, glazed chromium

Modern

Coordinated handles and buttons: glazed satin stainless steel, bright stainless steel

Main components and options
Other options

Folding seat



Manual opening

Transparent plastic

Max load 120 kg

Main components and options
Other options

Remote control

Allow the User to control the lift and the automatic doors

Main components and options
Other options

Key selector on the control panel

Allows to switch ON/OFF the controls or to give the possibility to control the landing accesses choosing a floor by the key.

Main components and options
Other options

Access ramp (in case of no pit)

Available when there is not the required height for the pit.

Required construction works and predispositions

Required construction works and predispositions
Shaft predisposition

- Shaft predispositions
- Anchors
- Landing doors installation
- Cabinet for electrical panel and hydraulic unit

Required construction works and predispositions
Shaft predisposition

Shaft geometrical features

The shaft has to be measure considering the shaft width (L) and the shaft depth (P) and communicated by using the available order forms. The real shaft dimensions could have a tollerance of ± 5 mm (excluding the minimum and maximum shaft dimensions).

→ The out of plumb of the shaft walls has to be less than 15 mm considering the entire shaft height.

Required construction works and predispositions
Shaft predisposition

Shaft measurements

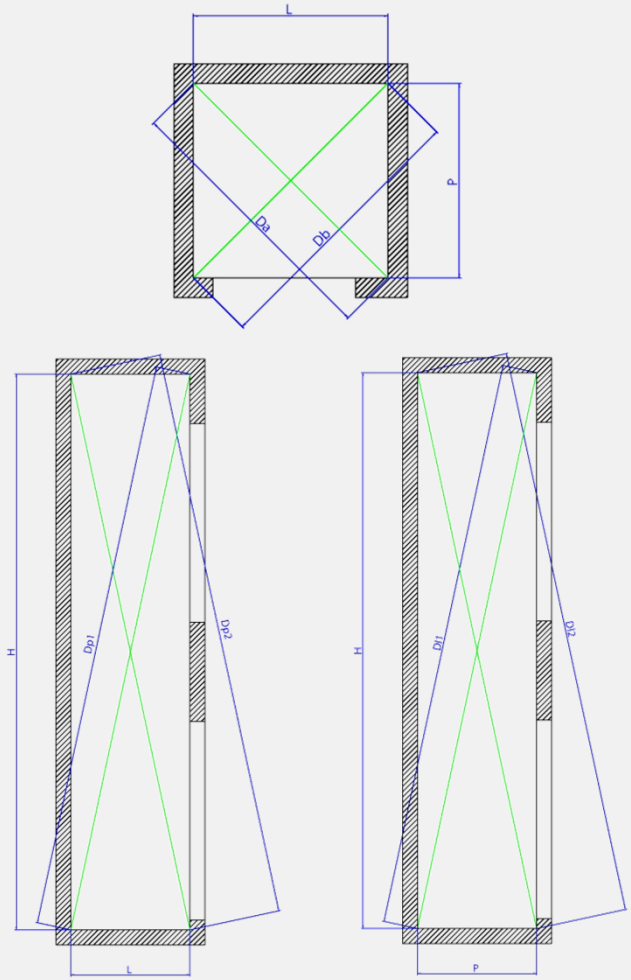
In order to guarantee a proper shaft measurement, it is necessary to measure the shaft plan size at the upper stop and at the bottom floor.

The suggested procedure is:

- measure the shaft width (L) on two shaft sides;
- measure the shaft depth (P) on two shaft sides;
- measure one of the diagonal of the shaft plan;
- measure the possible out of plumb of the shaft walls or the diagonals of the entire shaft walls.

→ The L and P measurements to be considered are the minimum ones.

→ The measurements should be performed by skilled persons.

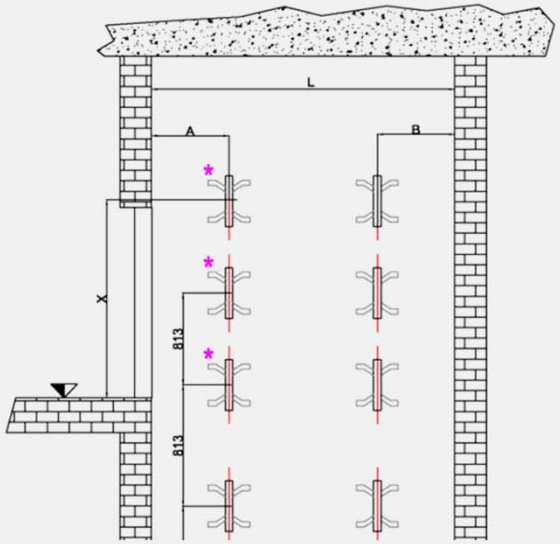


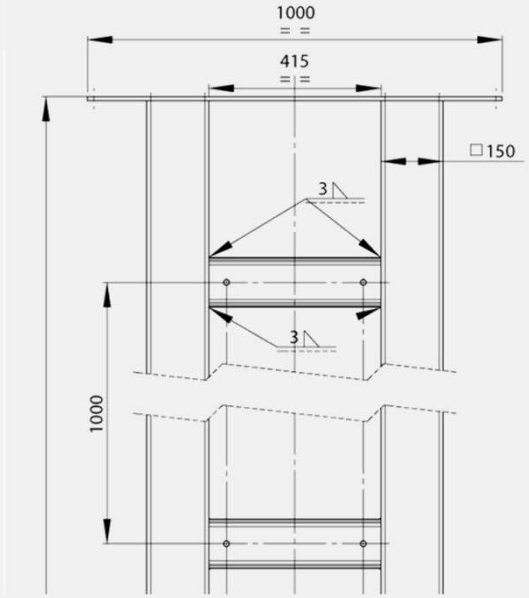
Required construction works and predispositions
Anchors

The guide anchorage are possible in three possible way:

- with mechanical expansion bolts in steel Ø 14 (only for reinforced concrete walls);
- with Halfen brackets and M12 bolts;
- via welding on a prepared vertical structure.

→ Refer to the “Pre-installation Manual” to consult the technical instructions



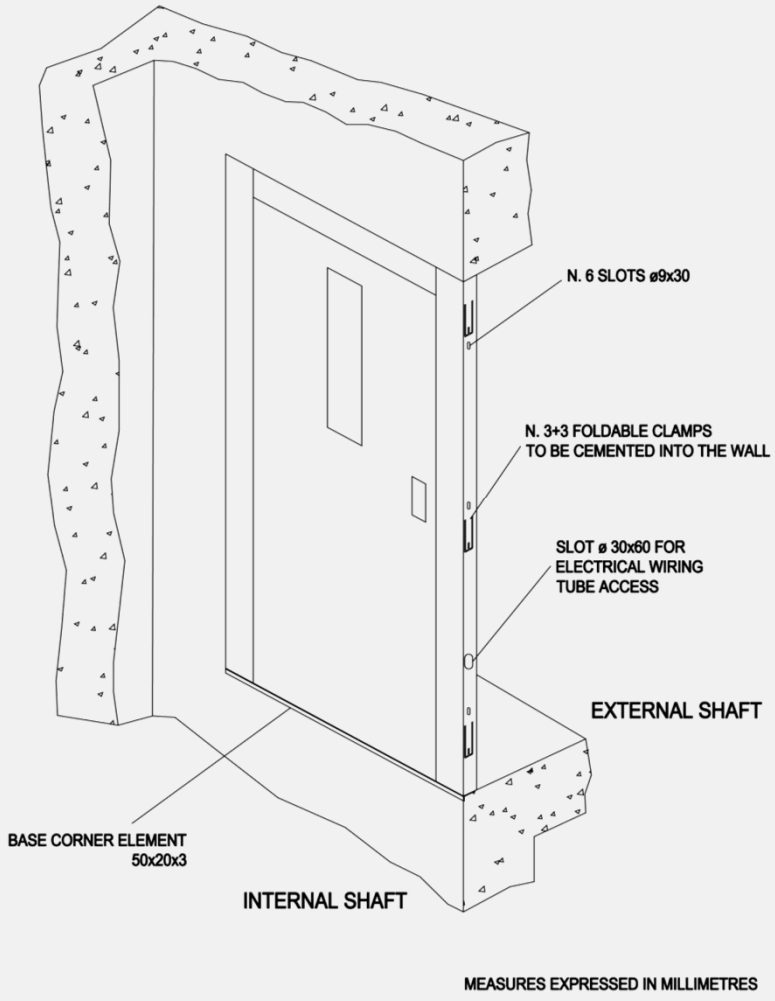


Required construction works and predispositions
Landing doors installation

Doors must be positioned in such a way so that their internal surface is perfectly aligned with the shaft's internal wall.
After installation, the doors must be perfectly aligned (vertically) and their bases must be perfectly horizontal (squared).

In order to properly install the door, the appropriate "clamps", located on the doors' posts must be cemented in. As an alternative, the door may be bolted to the adjacent structure by making use of the 2 attachment slots located on the door's borders.

→ Refer to the "Pre-installation Manual" to consult the technical instructions

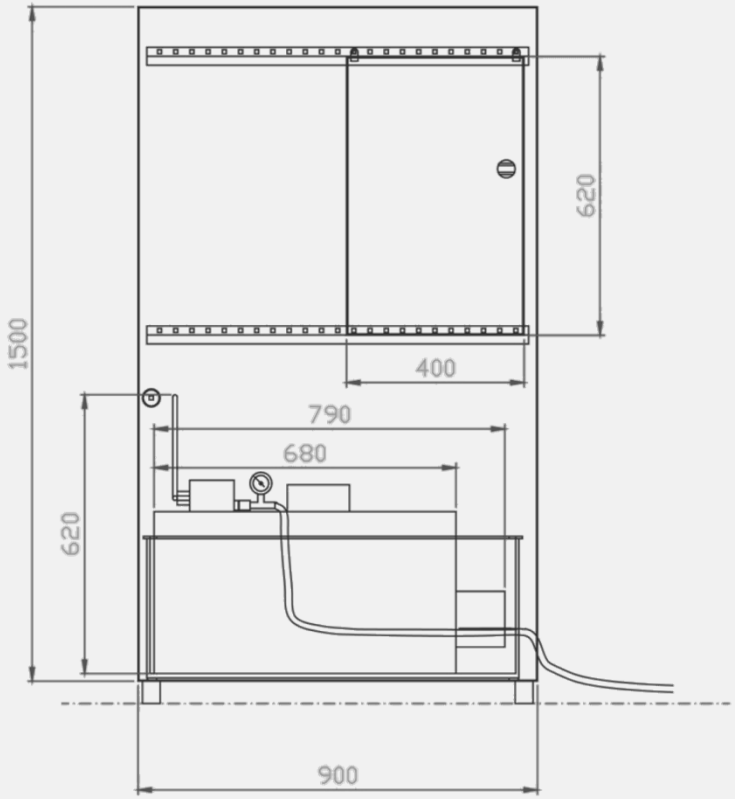


Required construction works and predispositions
Cabinet for electrical panel and hydraulic unit

Each platform lift must be equipped with a “Cabinet” that will contain the “Electrical Control Panel and Hydraulic Control Unit”. In the event that the client, for reasons of space, aesthetics and/or environmental concerns, wishes to not purchase the “Cabinet” made available by ThyssenKrupp Encasa, may construct said container autonomously.

It must have these minimum dimensions:
Width = 900 mm; height = 1500 mm, depth = 460 mm.

→ Refer to the “Pre-installation Manual” to consult the technical instructions



Thank you for your attention!