





Machine-roomless lifts

Here it is: a major revolution in machine-roomless lifts.

In 1997 we designed and built our first machine-roomless lift with a gearless permanent-magnet drive unit, forging ahead of the overwhelming majority of our competitors. After two decades of constant development and innovation, and the installation of thousands of lift systems across five continents, we have taken another major step forward with the **Silens Pro Revolution**[®] - a range of state-of-the-art machine-roomless lifts with a rated load of anything from 100Kg to 1000Kg that is destined to radically transform the lift industry.

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Technological terms

Silens Pro Revolution[®] is the first MRL lift that operates with the new **ALEC system (Automatic Learning Elevator Control).**

ALEC is a new technological concept based around the *machine learning* concept which gives the lift a new level of intelligence never seen before.

VARISPEED

Brand-new technology that converts the **Silens Pro Revolution**® in to the first lift on the market that travels faster that it's nominal speed.

SIRES (Shaft Intelligent Revolutionary Elevator System)

A concept based on a PESSRAL device with an electronically activated overspeed governor, electromechanical safety gear and absolute positioning that:

- Guarantees maximum **safety** of passengers.
- Allows automatic shaft learning, drastically reducing commissioning costs.

DIRECT APPROACH SYSTEM Guarantees the smoothest and most precise ride on every single trip.

SMARTECH CAR AND LANDING INDICATORS

New 7" car and landing indicators that keep passengers up to date in real time regarding their trip.



Simplifying lift engineer tasks

The **ALEC system** includes new features specifically designed for lift professionals:

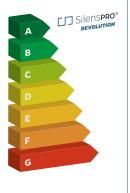
- New App designed by lift engineers for lift engineers to facilitate maintenance and technical support tasks.
- Maximum simplicity thanks to the latest *Plug* and *Play* technology (pre-wired and pre-tested) as well as **Quick Spin** technology that instantly synchronises the gearless machine and drive removing expensive commissioning costs.



Its energy-efficiency

Our **Silens Pro Revolution**[®] lifts have been awarded the maximum possible energy-efficiency ratings according to the VDI 4707 and ISO 25745-2 standard.

- The incorporation of Varispeed and the Direct Approach System.
- The gearless drive unit significantly lowers energy consumption and does not require lubricants.
- Stand-by mode is activated whenever the lift is not in use.
- Senergy-efficient lighting with **LED spotlights.**
- Designed and built in compliance with ISO 14001, the international standard which sets the basis for an effective environmental management system.





Freeing up space in existing buildings

With the **Silens Pro Revolution Nano**[®] **(100Kg-320Kg)** and the **Silens Pro Revolution Micro**[®] **(375Kg-630Kg)**, the breakthrough technology of the **Silens Pro Revolution** range is now available for the transformation of existing buildings: strikingly versatile, these two cutting-edge lift systems are perfect for installation in shafts of limited dimensions or as a replacement for outdated lifts, offering a range of sizes and configurations that is unique in the market.







The **Silens Pro Revolution Nano**[®] and the **Silens Pro Revolution Micro**[®] have been specially designed so that the mechanical components of the system take up less space inside the shaft, which enables passengers to enjoy roomier, more spacious lift cars. As a result, in standard-sized shafts, **the Silens Pro Revolution Nano**[®] **and the Silens Pro Revolution Micro[®] allow one more person to travel than other lifts available on the market.**

SHAFT DIMENSIONS *	OTHER LIFTS			SPR NANO & MICRO		
	Load	People	Clear opening (C/O)	People	Load	Clear opening (C/O)
1300x1350	320kg	4	2P 700	+ 5	375kg	2P 750
1350x1500	375kg	5	2P 700	+ 6	450kg	2P 800
1500x1600	450kg	6	2P 800	+ • • 8	630kg	2P 850
1500x1750	525kg	7	2P 800	+ 8	630kg	2P 850

The information shown is for single entry lifts with automatic 2 panel side opening doors.

- In full accordance with the EN 81-21 standard, The Silens Pro Revolution Nano[®] and the Silens Pro Revolution Micro[®] can be installed in shafts with a reduced-size pit.
- On top of that, their revolutionary design allows wider door clearances than other lifts in the same-sized shafts, making passenger access to the car easier and less restricted.
- The Silens Pro Revolution Nano® and the Silens Pro Revolution Micro® can be installed inside traditional masonry-built shafts as well as in the interior of prefabricated modular structures.
- Where there is a **through car-entrance configuration**, different door types can be installed at the two entrances, making these lift solutions **supremely flexible** when it comes to matching a building's particular needs and design aesthetic.



High standards on a global scale

Gearless machine: compact & energy efficient as well as easier to install due to its reduced weight.

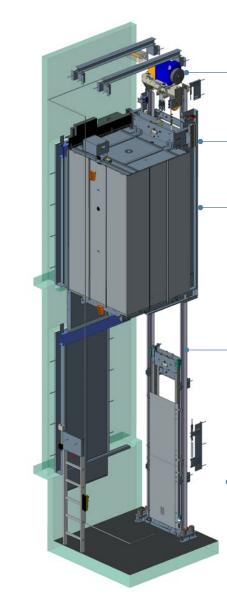
State-of-the-art electronic overspeed governor.

Ultra-rigid and lightweight cantilever

sling made of high-strength steel that allows for an extensive range of opening configurations. A modern electrically activated safety gear replaces the traditional linkage bar arrangement between traditional safety gear blocks.

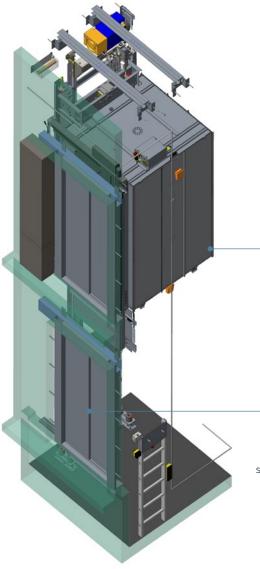
The **machined guide rails** are of the highest quality and are delivered cut to size to suit the particular project.

In-shaft safety devices (limit switches, absolute positioning, door zone magnets, final limits) are integrated into a PESSRAL device.



The platform, flooring and roofing of the **lift car**, together with its sling, are built of high-strength galvanised steel to form a very robust unit.

Automatic fire-rated doors, side or central opening are safe and realiable. Available in brushed stainless steel or epoxy finish. Other door types and models are also available.



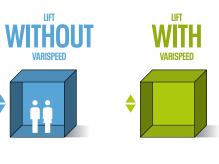


Varispeed: Faster travel for optimum traffic .

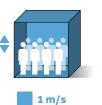
For the first time as standard, the **Silens Pro Revolution**[®] incorporates groundbreaking **Varispeed** technology that allows the lift to travel faster, to cut passengers' travel and waiting times and to increase lift traffic capacity in the building.



Varispeed allows lifts to travel faster than their rated speed.









1,2 m/s



Reduced energy consumption.**



Reduced travel time to destination.***



* & ***: based on traffic analysis during the late evening in a residential building with 24m travel, 9 floors and an occupation of 10 people per floor.

**: based on data collected of random traffic in a residential building over 6 floors with 15.5m travel.

-5%

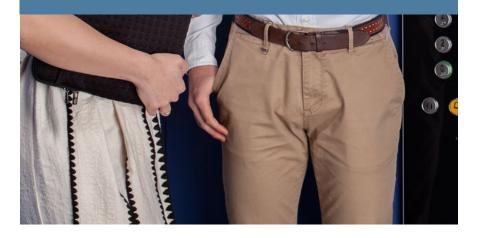


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Intelligent technology

Every **Silens Pro Revolution**[®] is an integrated system, made up of interconnected components which communicate in real time improving levels of safety, client s experience, installation process and maintenance tasks.



Direct Approach System

Our **Direct Approach System** allows the lift's control system to calculate the optimum speed curve for each trip, avoiding the delays typically experienced with lifts that do not benefit from this function.

As a result, lift travel and waiting times are drastically reduced and passenger experience in terms of comfort, smoothness of travel and car-to-landing stopping accuracy are significantly improved.

On top of that, the Direct Approach System gets rid of the need for a series of sensors and devices inside the lift shaft, thereby simplifying, shortening and economising on the lift installation process and subsequent maintenance work.

WHAT DOES SIRES PROVIDE?

- Automatic shaft learning drastically reducing installation costs.
- Installation & maintenance: faster, easier and more adaptable.
- Lift car location: always available in real time.
- Fault detection: made simpler by its advanced diagnostic capacities and the removal of outdated components.

SIRES, Intelligence reinvented

For the first time, **Silens Pro Revolution**[®] includes as standard **SIRES** (*Shaft Intelligent Revolutionary Elevator System*). The concept is based around a PESSRAL* device providing absolute positioning in the lift shaft using the latest magnetic tape technology.

SIRES provides continuous real-time information on the lift car's location in the shaft, precise to within less than 1mm. **SIRES** allows us to optimise electromagnetic devices and delivers many other benefits (see adjacent box).

Covers various safety functions of the EN81-20 / 50 standard such as bottom limits, uncontrolled movemement, overspeed

It also covers other safety functions such as door area positioning for the emergency rescue control system.

control and triggering.

The PESSRAL device is silent and resistant to dust, smoke and humidity.

* The PESSRAL system is designed for control, protection or monitoring based on one or more programmable electronic devices, including all elements of the system such as power supplies, sensors and other input devices, data highways and other communication paths, and actuators and other output devices, used in safety related applications.

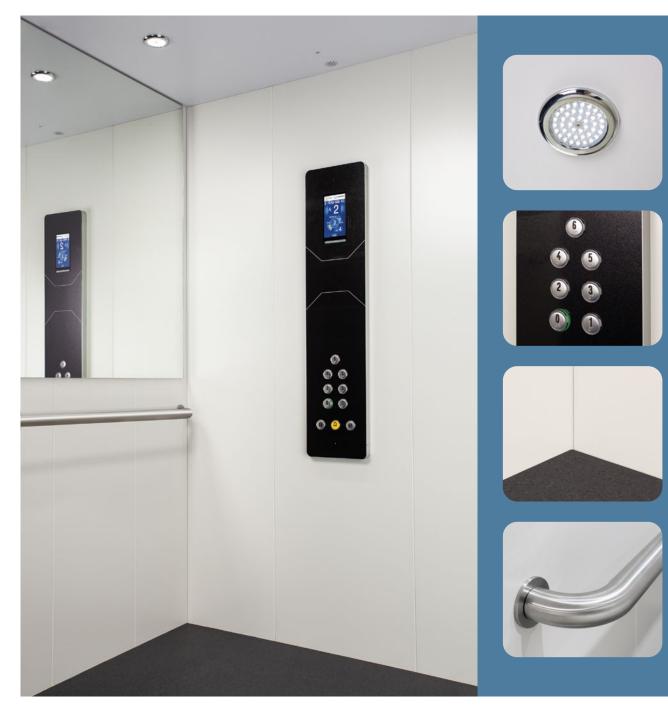


Modern design - all to the customer's taste

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The new range of design options specifically developed for the **Silens PRO Revolution**[®] range caters for our customers' most demanding tastes, right down to the last detail, both in terms of appearance and of function. The result is a relaxed user experience and the capacity to shine in whatever architectural setting.

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200 Revolution Series

200 Revolution Series lift cars are built with galvanised steel sheeting and clad with plastic laminates available in a wide range of colours or with stainless steel in a choice of different patterns.

- In-car lighting: direct, using LED spotlights from either range.
- Lift-car doors and front returns: finished in stainless steel.
- Car operating panel: BCR 1 model which includes the 7" TFT colour indicator.
- Hard-wearing car floors available in a range of rubber finishes. Other finishes available on request.
- Handrails (optional): finished in AISI 304 stainless steel. Lift car is also available with handrails on all walls or without.
- Mirror (optional): covering half of the back wall of the car.
- Design in full accordance with 2014/33/EU Directive, EN 81-20:2014, EN 81-50:2014 and EN 81-70:2018.



300 Revolution Series

300 *Revolution* **Series** lift cars are built with galvanised steel sheeting and clad with high-pressure laminates in a wide range of colours.

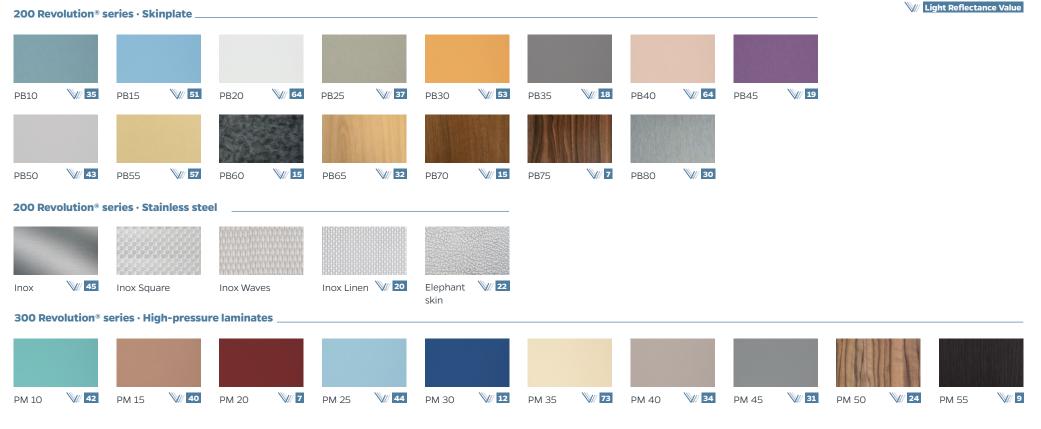
- In-car lighting: direct, using LED spotlights from eiher range.
- Solution: Lift-car doors and front returns: finished in stainless steel.
- Car operating panel: BCR 2 model which includes the 7" TFT colour indicator.

- Skirtings: finished in aluminium.
- Hard-wearing car floors available in a range of rubber finishes. Other finishes available on request.
- Handrails (optional): finished in AISI 304 stainless steel. Lift car is also available with handrails on all walls or without.
- Mirror (optional): covering two-thirds of the car's back wall.
- Design in full accordance with 2014/33/EU Directive, EN 81-20:2014, EN 81-50:2014 and EN 81-70:2018.

Lift car's real internal dimensions with decoration 300 will be less than what shown in our drawings/charts.

EN81:20, EN 81:70 and AS1735-12 norms state that internal lift car measurements are to be calculated between structural walls, allowing surface reductions caused by the different wall finishes. 300R's decoration complies with the above mentioned norms.





Flooring



Local flooring preparation 25mm available on request.

Car operating panels, landing push stations & indicators

Handrails



Car push-buttons



Stainless steel push-buttons with tactile legend and braille (EN 81-70 compliant).



* Push buttons installed directly in the door frame. ** Flush mounted on door frame. *** Surface mounted on door frame.

Landing indicators

FERV



Smartech HR 7" indicator. EN 81-70 option: Includes for direction of travel arrow and gong.

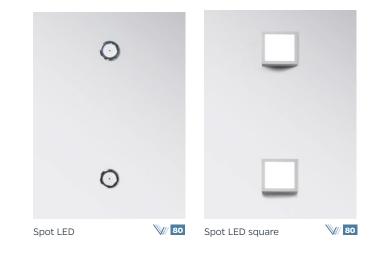
HLER - Car doorjamb (EN 81-70)

Landing push buttons

PEEB







Silens Pro Revolution Nano[®] | Silens Pro Revolution Micro[®]

Lift car Smartech display



Lift availability before travel

The screen tells you if the lift is available for use.

Smartech AutoTest Function

Checks and displays the correct functioning of the safety components and system before the start of each journey.

Position & direction

Shows the location of the lift within the building at all times, as well as direction of travel.

Destination floor & time remaining before arrival

Indicates the floor to which the lift is travelling and the time remaining before arrival, expressed in seconds.

Speed

Passengers are kept informed in real time of the car's speed on each journey, from departure until arrival at the destination floor.

Energy consumption

Indicates if the lift is consuming energy or generating it during travel, thereby reducing the building's operating costs.

Arrival at destination floor alert

Informs passengers when the lift reaches the destination floor.

Date & time

Displays the time and date in real time.

Load & passenger capacity

Indicates the maximum permissible load, in kilograms, and the maximum number of passengers that can travel in the lift car.

Landing Smartech HR Display*



Includes voice synthesiser!

Welcome messages

The screen greets passengers with messages corresponding to the particular time of day.

Position & direction

Indicates to passengers waiting on a landing the location of the car and its direction of travel in real time.

Flashing LED display by the lift entrance

Alerts passengers to the imminent arrival of the lift.

Situation reports

The display transmits relevant information to passengers: such as when there are too many people in the lift car, when the lift door is blocked and when people are entering or leaving the car, among others.

Lift arrival countdown

The display shows a progress bar and countdown in seconds, accurately updated in real time, so that passengers know exactly when their lift will arrive.

Energy consumption

Indicates if the lift is consuming energy or generating it during travel, thereby reducing the building's operating costs. 13

Voice messages

The screen device shares travel information with passengers via a voice synthesiser built into the door frame. Its volume is automatically adjusted according to the particular time of day.

All the visual and acoustic messaging has been designed in full accordance with EN 81-70:2018 (Safety rules for the construction and installation of lifts. Particular applications for passenger and goods passenger lifts. Part 70: Accessibility to lifts for persons including persons with disability).



The **Silens Pro Revolution**[®] has been specifically designed to assist the work of lift professionals throughout the working life of the lift system.

A fully-integrated solution

The innovative **ALEC system** represents another step in the integration of all electrical and mechanical components of the lift, raising benefits to another level.

Intelligent packaging

Each lift is delivered on-site in packaging designed to facilitate the work of installation personnel. All the lift components and parts are delivered in a logically-organised series of packs that are clearly identified and strictly ordered according to their place in the installation sequence. The lift system comes with all the parts labelled and numbered and with all the detailed checklists, documents and installation manuals required. Fast & straightforward installation The Silens Pro Revolution[®] can be installed in under 100 hours.

Plug and Play

Thanks to our Plug and Play manufacturing concept our electrical packages are supplied pre-tested and pre-wired to the specific gearless machine that is shipped with the lift.

Quick Spin

Instant synchronisation of the gearless machine and VF drive removing expensive commissioning costs.

Easy to maintain

Maintenance work on a **Silens Pro Revolution Nano**[®] or **Micro**[®] lift system by the qualified servce technician is safe, quick and supremely straightforward.

Permanent technical support service

We offer clients all the technical support they require, whether mechanical or electrical: our highly qualified staff advise and assist them in real time and in their own language.

Spare parts guaranteed

The availability of original spare parts is guaranteed, as is the full traceability of all replacement parts installed.

Speed of delivery

Once an order has been received and confirmed, the corresponding **Silens Pro Rev***olution* **Nano**[®] or **Micro**[®] I lift system will be delivered within just six weeks.

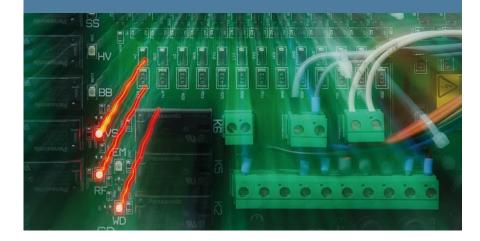




Altamira II control system: Silens Pro Revolution's® brain

The Altamira II control system has been completely designed and manufactured by IMEM Lifts alone. It was conceived to control, with maximum precision, all the actions of any lift or group of lifts in the **Silens Pro Revolution**[®] range.

Altamira II is ready to solve, in a simple way, both the most common functions and the most complex and sophisticated, avoiding traditional electro-mechanical solutions.



Seamless integration for perfect performance

- Altamira II is fully integrated with the mechanisms of the entire Silens Pro Revolution[®] lift range. Therefore, in a Silens Pro Revolution[®] lift, the mechanical and the electrical act as one to provide exceptional functionality and performance.
- Altamira II minimises the sensors and components required, making it possible to utilise space to the maximum. It provides optimum travel comfort for the lift and reduces electrical consumption.
- As electrical and mechanical manufacturers we not only offer our customers lifts that provide integrated electrical and mechanical solutions with perfect compatibility: we also offer integral technical support to our customers, saving time and providing efficient support throughout the lifecycle of our lifts.

Easy and quick installation

- Altamira II is supplied pre-assembled, pre-connected and pre-tested which simplifies installation and minimises any margin of error.
- Perfectly configured inverter and machine operating patterns match the operation of Altamira II with the mechanics of every Silens Pro Revolution®
- Installation times are reduced thanks to the almost complete elimination of traditional sensors and magnets.
- Altamira II integrates software that allows a single person to perform a levelling operation in minutes and from inside the lift car.

Easy maintenance

- A simple smartphone allows, without the need for cables or additional tools, rapid, easy and user-friendly access to the control system to perform lift maintenance tasks. The **App** provides access to documentation, manuals and communication with our customer support department.
- In the event of an unexpected anomaly, Altamira
 II will automatically proceed to correct it in a self-learning process by recording the event for later analysis by the maintenance department without interrupting the lift service.
- Our technical support department can provide remote support and real-time monitoring of lifts via telephone or internet.

Remote monitoring

The remote monitoring system allows lifts installed in one or more buildings to be run from a control room. This system is based on CAN Bus technology that allows monitoring of lifts, detection and reading of faults in real time, control of groups of lifts, analysis of equipment performance and many other functions.





Cperational and service functions

Oirect approach

The lift approaches the floor with no intermediate speeds to stop gently at the floor level. The position of the car is calculated at all times without the need for magnets.

Homing Mode

The lift car returns to the specified homing floor. You can set any floor as the return floor.

Maximum no. of calls

Limited number of car calls registered. Anti-vandal mode.

Secontrol

In the event of a fire, a control is activated that sends the lift to the fire emergency floor. If the lift is going away from the fire emergency floor, it will stop at the first possible stop and without opening the doors, it will return to the fire emergency floor. If the lift is going in the direction of the fire emergency floor, it will not stop until it arrives at that floor. This complies with EN81-73. When this movement is completed, it can return to normal operation by means of reset or not.

Stand-by mode

Disconnects the lighting inside the car as well as the car and landing displays, thus reducing the electrical consumption of the lift.

Car fan

There is a timer to activate/deactivate the fan.

Service control keyswitch

Only calls made from the car operating panel are registered.



Multiple

A group of up to 4 lifts can be controlled.

Limited out of service

Allows a group of lifts to self-manage a singular lift with continous faults and leave it out of service whilst other lifts handle calls..

Door operation functions

Search Fast closing of doors

This allows the time between stops to be shortened by means of a push button in the car that can be activated if there are car calls registered.

Nudge

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The doors close slowly in the event of a prolonged interruption of the safety edge, notifying the persons in the car visibly and/or acoustically.

Safety edge

Safety edge according to EN81-20.

Self-diagnosing safety edge

Autodiagnosis of the safety edge in which the door sensors are automatically checked.

Departure Gong, ascending and descending tones

- EN81-70 -

Activates a sound with an ascending scale for ascent and a descending scale for descent.

Overload function

The display gives a visual and audible indication to the users of overloading inside the car..

Voice synthesizer

This is a voice synthesizer that emits informative messages concerning the operation of the lift.

Emergency operation functions

Manual rescue

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Manual rescue can be of two types, one by opening the brake and car movement subject to the balance of the car or by means of a high power UPS and directional push buttons that raise or lower the lift.

Emergency ceiling light in car

In the event of a power cut, an emergency light in the car operating panel illuminates in accordance with EN81-20.

Automatic rescue device

The automatic rescue operation is carried out via a UPS whereby the lift will park at the most favorable floor with the doors open.

Signalisation and indicator functions

Technical information

How to use the technical information enclosed within this catalogue.

The **Silens Pro Revolution Nano**[®] elevators (100Kg-320Kg) and **Silens Pro Revolution Micro**[®] (375Kg-630Kg) offer a very extensive range of configurations and sizes. In the information enclosed you will find all available configurations for any **Silens Pro Revolution Nano**[®] or **Silens Pro Revolution Micro**[®] equipped with automatic 2 panel side opening (Wittur Augusta Evo model) or manual swing doors. There are other door options available: please contact us for further information.

- **01** Choose the door type required and number of openings.
- **02** Check, based on the option chosen in section 01 the technical information tables for the selected product.
- **03** Select the required shaft width and depth from the configuration table. Then check the field "Load" in the lower corner of the page to confirm the final load of the lift based on the dimensions selected as well as the final car dimensions. If your lift is located in an area of the table with pit or headroom restraints these requirements are to be noted.
- **04** Check the door clear opening table to confirm the final door panel and frame size. If your lift has more than one entry, please consult the same dimensions on the table for the alternative 90° or 180° opening.
- **05** In order to confirm that the chosen configuration is feasible, our engineering solution must carry out a final check to confirm the counterweight filler weight balance is correct. If it were not to be viable, we will carry out a technical review to provide an option best suited to your requirements.



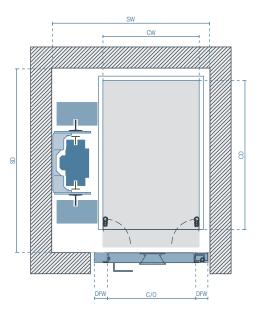


Operational ranges (standard solutions)

Maximum travel	Up to 40 m			
	 Pit Minimum: 1050 mm Minimum EN 81-21: 350 mm, optional marble floor Minimum EN 81-21: 320 mm (requires project study and does not include marble floor as an option) Maximum: 1900 mm 			
Shaft	 Headroom Minimum (2175mm car): 3600 mm Reduced minimum (2000 mm car): 3400 mm 			
	Space required for mechanical elements: 290mm *Shaft width: Car width + 350 mm			
Lift car construction in 5mm steps	 Minimum depth: 550 mm Maximum depth: 1450 mm Minimum width: 550 mm Maximum width: 1200 mm Standard height 2175 mm (2000 mm and 2275 mm option in 50mm steps) 			

Doors Manual swing+busmatic

Entrance **Single O**°



Car dimensions

CALCULATION OF CAR DIMENSIONS

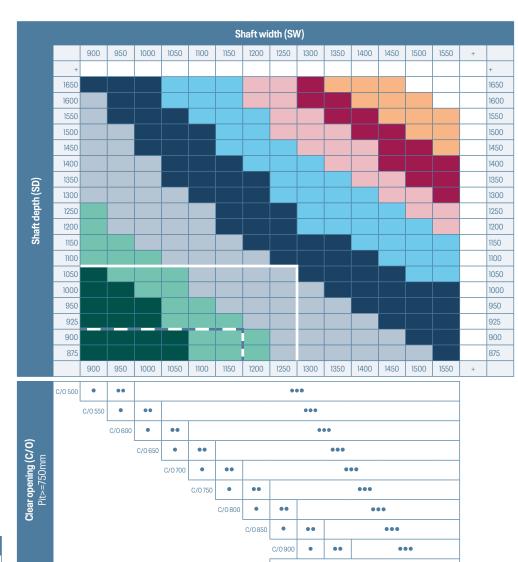
Car width = Shaft width - 350 mm
Car depth = Shaft depth - 200 mm

Maximum	car	width:	1200	mm

- Minimum car width: 550 mm
- Maximum car depth: 1450 mm
- Minimum car depth: 680 mm

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps



...

• ••

C/0 750 ••

C/0800

• ••

C/0 650

C/0700

2 Panel side opening doors will fit (please see relevant table)

...

...

...

...

...

••

C/0 850 ••

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C/0900

...

Minimum pit areas

—	1350 mm
All others	1050 mm

Minimum reduced pit EN 81-21: 350 mm

320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

	4600 mm
All others	3600 mm

Load

100Kg 180Kg 225Kg 320Kg 375Kg 450Kg 525Kg 630Kg

Door frame width

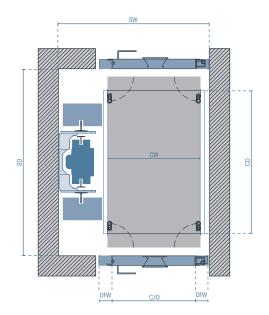
- Door frame width (DFW): 75 mm
- •• Door frame width (DFW): 100 mm
- ••• Door frame width (DFW): 125 mm

* Minimum clear opening (C/O) = 650 mm

Clear opening (C/O) Pit<=749mm*

Doors **Manual swing+busmatic**

Entrance Through car 180°



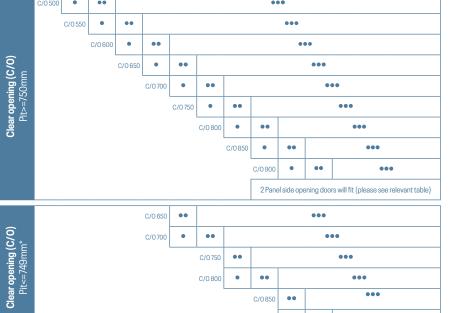
Car dimensions

С	CALCULATION OF CAR DIMENSIONS				
С	Car width = Shaft width - 350 mm				
С	Car depth = Shaft depth - 260mm				
	Maximum car width: Minimum car width: Maximum car depth: Minimum car depth:	1200 mm 550 mm 1450 mm 720 mm			

Maximum car area 1.65 m²

Width and depth of car dimensions in 5mm steps





...

C/0 900

... C/0850

•

••

•

C/0 800

...

...

...

Minimum pit areas

	1350 mm
All others	1050 mm

Minimum reduced pit EN 81-21: 350 mm

320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

	4600 mm
All others	3600 mm

Load

100Kg 180Kg 225Kg 320Kg 375Kg 450Kg 525Kg

Door frame width

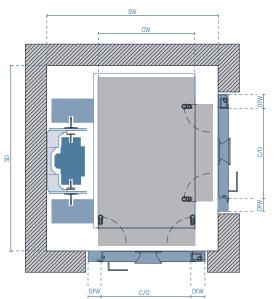
- Door frame width (DFW): 75 mm .
- Door frame width (DFW): 100 mm ...
- ••• Door frame width (DFW): 125 mm

* Minimum clear opening (C/O)= 650 mm

Doors

Manual swing+busmatic

Entrance Through car 90° or 270°



Car dimensions

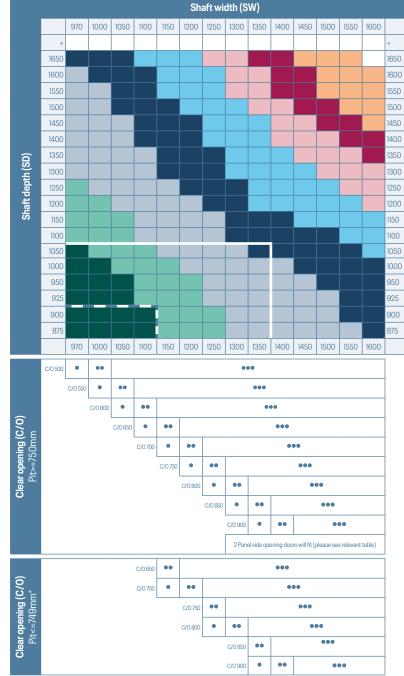
CALCULATION OF CAR DIMENSIONS

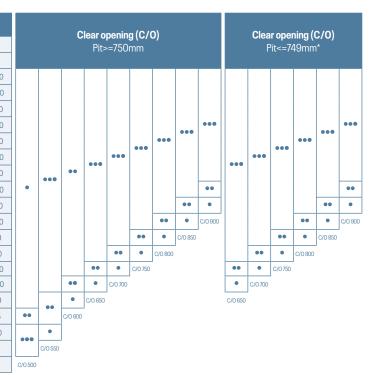
	Car width = Shaft width	:ar width = Shaft width - 420 mm				
Car depth = Shaft depth - 200 mm						
	Maximum car width:	1200 mm				
	Minimum car width:	550 mm				
	Maximum car depth:	1450 mm				

Minimum car depth: 680 mm

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps





Minimum pit areas

All others 1050 mm

Minimum reduced pit EN 81-21: 350 mm

4600 mm

3600 mm

> 320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

Load

All others

100Kg 180Kg 225Kg 320Kg 375Kg 450Kg 525Kg 630Kg

Door frame width

- Door frame width (DFW): 75 mm
- •• Door frame width (DFW): 100 mm
- ••• Door frame width (DFW): 125 mm

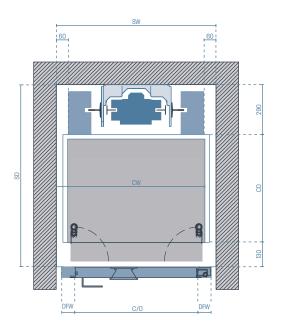
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* Minimum clear opening (C/O) = 650 mm

Mechanical position **Rear mounted**

Doors **Manual swing+busmatic**

Entrance Single 0°



Car dimensions

CALCULATION OF CAR DIMENSIONS

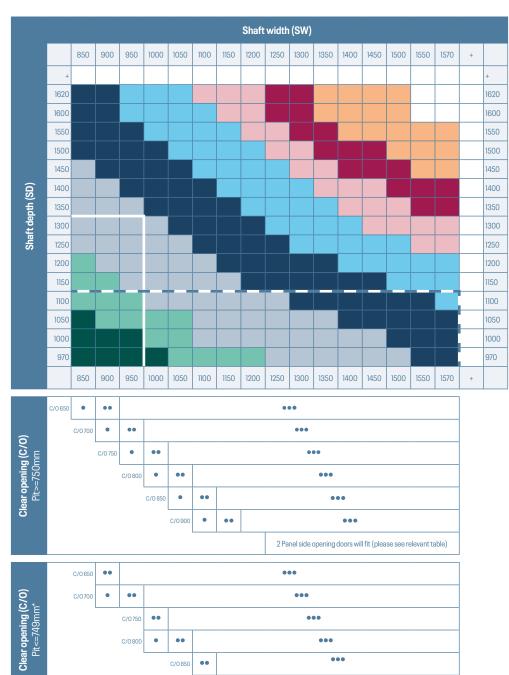
Car width = Shaft width - 120 mm

Car depth = Shaft depth - 420 mm

- Maximum car width: 1450 mm
- Minimum car width: 730 mm
- Maximum car depth: 1200 mm
- Minimum car depth: 550 mm

Maximum car area 1.65 m²

Width and depth of car dimensions in 5mm steps



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...

...

Minimum pit areas

	1350 mm
All others	1050 mm

Minimum reduced pit EN 81-21: 350 mm

320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

	4600 mm
All others	3600 mm

Load

100Kg 180Kg 225Kg 320Kg 375Kg 450Kg 525Kg

Door frame width

- Door frame width (DFW): 75 mm •
- Door frame width (DFW): 100 mm ...
- ••• Door frame width (DFW): 125 mm

* Minimum clear opening (C/O) = 650 mm

C/0800 ٠ ••

> ... C/0 850

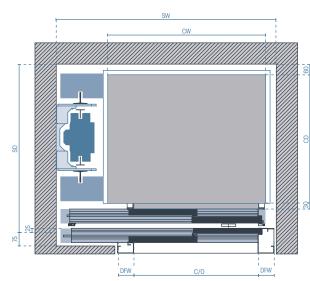
> C/0900 •

...

Doors
2 panel side opening Augusta EVO

Door mounting position
Mounted on landings

Entrance Single O^o

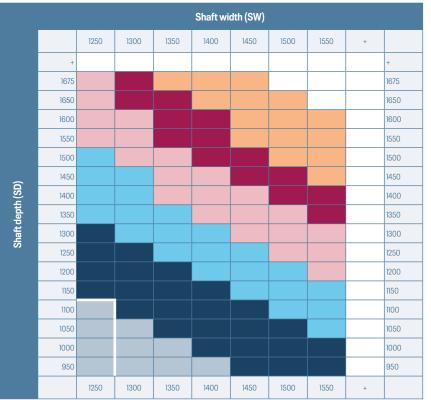


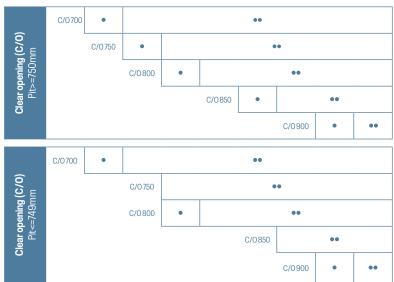
Car dimensions

CALCULATION OF CAR DIMENSIONS	
Car width = Shaft width - 350 mm	า
Car depth = Shaft depth - 225 mm	
 Maximum car width: Minimum car width C/O 700: Minimum car width C/O 750: Minimum car width C/O 800: Minimum car width C/O 850: Minimum car width C/O 900: Maximum car depth: Minimum car depth: 	1200 mm 850 mm 925 mm 975 mm 1050 mm 1150 mm 1450 mm 725 mm

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps





Minimum pit areas

	1350 mm
All others	1050 mm

Minimum reduced pit EN 81-21: 350 mm
 320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

▶ 3600 mm

Load

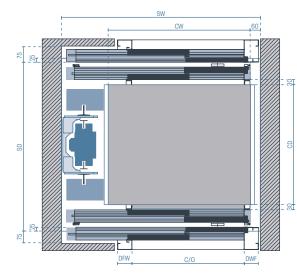


- Door frame width (DFW): 90 mm
- •• Door frame width (DFW): 120 mm

Doors
2 panel side opening Augusta EVO

Door mounting position
Mounted on landings

Entrance Through car 180°



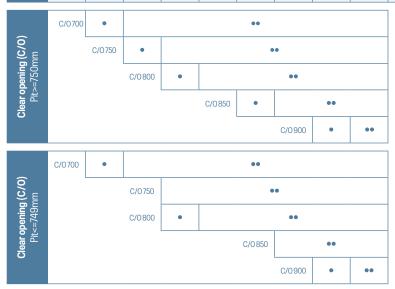
Car dimensions

CALCULATION OF CAR DIMENSIONS	
Car width = Shaft width - 350 mm	
Car depth = Shaft depth - 330 mm	
 Maximum car width: Minimum car width C/O 700: Minimum car width C/O 750: Minimum car width C/O 800: Minimum car width C/O 850: Minimum car width C/O 900: Maximum car depth: Minimum car depth: 	1200 mm 850 mm 925 mm 975 mm 1050 mm 1150 mm 1450 mm 750 mm

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps





Minimum pit areas

	1350 mm
All others	1050 mm

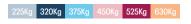
Minimum reduced pit EN 81-21: 350 mm

▶ 320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

▶ 3600 mm

Load



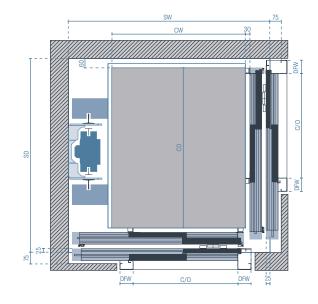
- Door frame width (DFW): 90 mm
- •• Door frame width (DFW): 120 mm

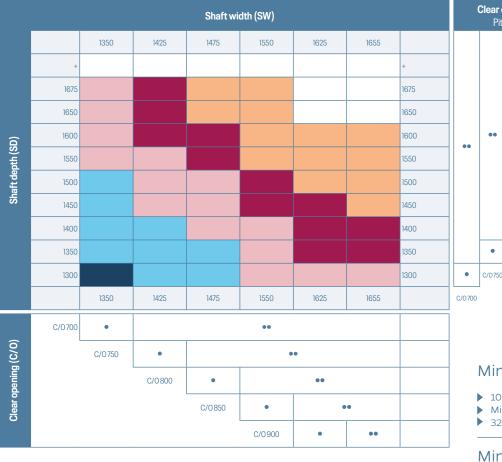
Mechanical position **Side**

Doors 2 panel side opening Augusta EVO

Door mounting position
Mounted on landings

Entrance Through car 90° or 270°





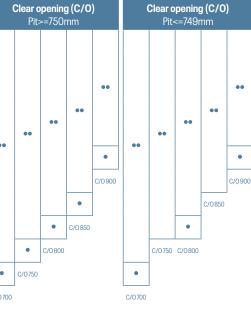
Car dimensions

CALCULATION OF CAR DIMENSIONS	
Car width = Shaft width - 455 mm	
Car depth = Shaft depth - 225 mm	

- Maximum car width: 1200 mm
- Minimum car width C/O 700 (0°): 895 mm
- Minimum car width C/O 750 (0°): 970 mm
- Minimum car width C/O 800 (0°): 1020 mm
- Minimum car width C/O 850 (0°): 1095 mm
- Minimum car width C/O 900 (0°): 1170 mm
- Maximum car depth: 1450 mm
- Minimum car depth C/O 700 (90°): 1075 mm
- Minimum car depth C/O 750 (90°): 1125 mm
- Minimum car depth C/O 800 (90°): 1175 mm
- Minimum car depth C/O 850 (90°): 1225 mm
- Minimum car depth C/O 900 (90°): 1325 mm

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps



Minimum pit areas

▶ 1050 mm

- Minimum reduced pit EN 81-21: 350 mm
- 320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

▶ 3600 mm

Load

320Kg 375Kg 450Kg 525Kg 630Kg

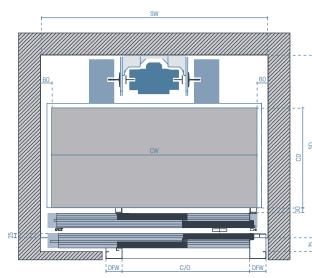
- Door frame width (DFW): 90 mm
- Door frame width (DFW): 120 mm

Mechanical position Rear mounted

Doors
2 panel side opening Augusta EVO

Door mounting position
Mounted on landings

Entrance Single O^o

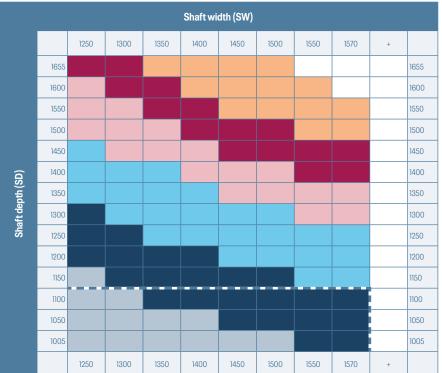


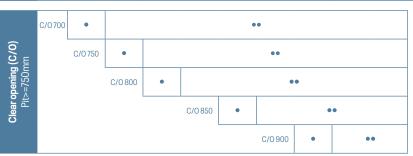
Car dimensions

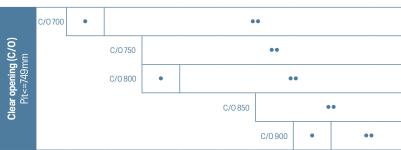
CALCULATION OF CAR DIMENSIONS	
Car width = Shaft width - 120 mm	า
Car depth = Shaft depth - 455 mm	
 Maximum car width: Minimum car width C/O 700: Minimum car width C/O 750: Minimum car width C/O 800: Minimum car width C/O 850: Minimum car width C/O 900: Maximum car depth: Minimum car depth: 	1450 mm 1130 mm 1180 mm 1230 mm 1330 mm 1430 mm 1200 mm 550 mm

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps



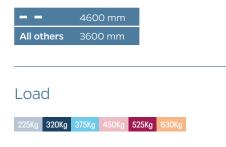




Minimum pit areas

- 🕨 1050 mm
- Minimum reduced pit EN 81-21: 350 mm
- ▶ 320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

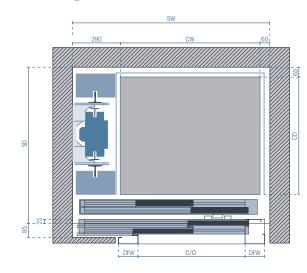


- Door frame width (DFW): 90 mm
- •• Door frame width (DFW): 120 mm

Doors 2 panel side opening Hydra

Door mounting position **Mounted on landings**

Entrance Single 0°

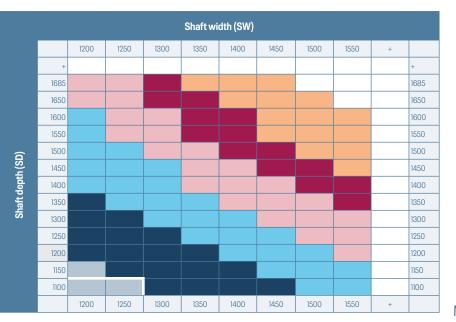


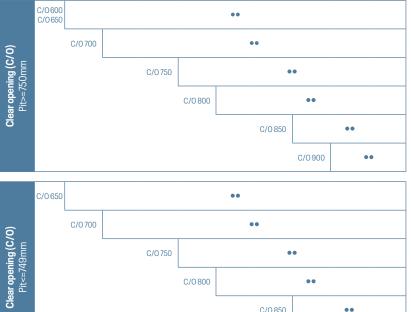
Car dimensions

Car width = Shaft width - 350 mm Car depth = Shaft depth - 235 mm	
Minimum car width C/O 600:	715 mm
Minimum car width C/O 650:	765 mm
Minimum car width C/O 700:	815 mm
Minimum car width C/O 750:	935 mm
Minimum car width C/O 800:	985 mm
Minimum car width C/O 850:	1085 mm
Minimum car width C/O 900:	1145 mm
Maximum car depth:	1450 mm
Minimum car depth:	715 mm

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps





••

C/0 850

••

C/0900

••

...

C/0750

C/0 800

Minimum pit areas

—	1350 mm
All others	1050 mm

26

Minimum reduced pit EN 81-21: 350 mm

320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

> 3600 mm

Load

320Kg 375Kg 525Kg

Door frame width

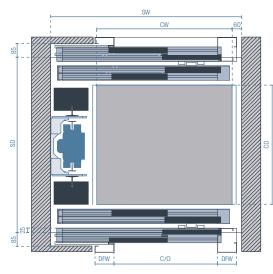
•• Door frame width (DFW): 120 mm

* Minimum clear opening (C/O) = 650mm

Doors 2 panel side opening Hydra

Door mounting position
Mounted on landings

Entrance Through car 180°

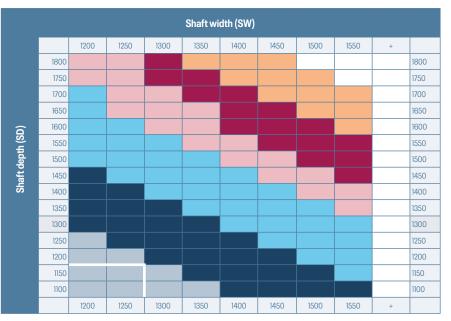


Car dimensions

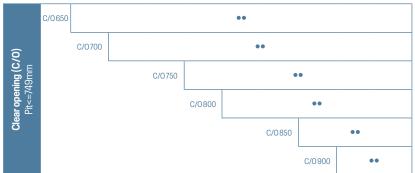
CALCULATION OF CAR DIMENSIONS	
Car width = Shaft width - 350 mm	
Car depth = Shaft depth - 350 mm	ו
 Maximum car width: Minimum car width C/O 600: Minimum car width C/O 650: Minimum car width C/O 700: Minimum car width C/O 750: Minimum car width C/O 800: 	1200 mm 715 mm 765 mm 815 mm 935 mm 985 mm
 Minimum car width C/0 800: Minimum car width C/0 850: Minimum car width C/0 900: Maximum car depth: Minimum car depth: 	1085 mm 1085 mm 1145 mm 1450 mm 750 mm

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps







* Minimum clear opening (C/O) = 650mm

Minimum pit areas

—	1350 mm
All others	1050 mm

Minimum reduced pit EN 81-21: 350 mm

320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

▶ 3600 mm

Load

225Kg 320Kg 375Kg 450Kg 525Kg 630K

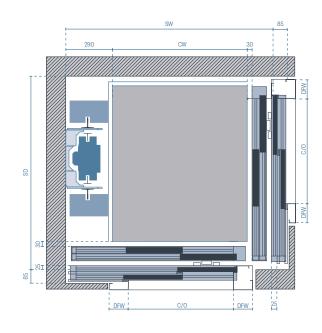
Door frame width

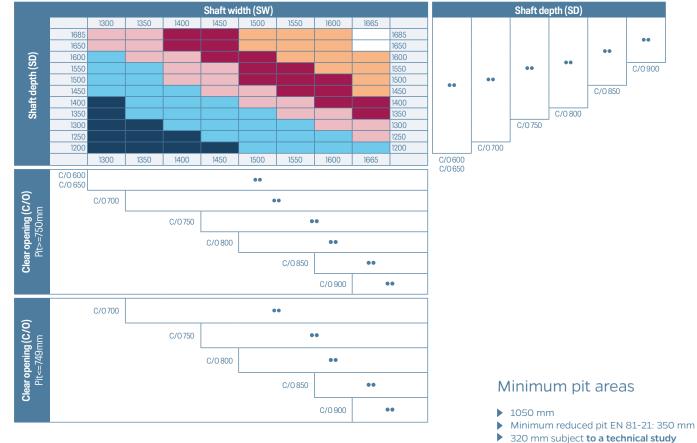
Mechanical position **Side**

Doors
2 panel side opening Hydra

Door mounting position Mounted on landings

Entrance **Through car 90°**





Car dimensions

CALCULATION OF CAR DIMENSIONS	
Car width = Shaft width - 465 mm	
Car depth = Shaft depth - 235 mm	
Maximum car width: 1200 mm	Minimum car depth C/O 600 (90°): 850

Minimum car width C/O 600 (0°): 700 mm Minimum car depth C/O 650 (90°): 900 mm

- Minimum car depth C/0 700 (90°): 960 mm
- Minimum car depth C/O 750 (90°): 1060 mm
- Minimum car depth C/O 800 (90°): 1000 mm
 Minimum car depth C/O 800 (90°): 1110 mm
- Minimum car depth C/O 850 (90°): 1110 mm
 Minimum car depth C/O 850 (90°): 1195 mm
- Minimum car depth C/O 900 (90°): 1295 mm
- Maximum car depth: 1450 mm

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps

Minimum car width C/O 650 (0°): 765 mm

Minimum car width C/O 700 (0°): 825 mm

Minimum car width C/O 750 (0°): 925 mm

Minimum car width C/O 800 (0°): 975 mm

Minimum car width C/O 850 (0°): 1075 mm

Minimum car width C/O 900 (0°): 1140 mm

Minimum headroom requirements (car height 2175 mm) ^{50 mm} ^{60 mm} Load

320Kg 375Kg 450Kg 525Kg 630Kg

Door frame width

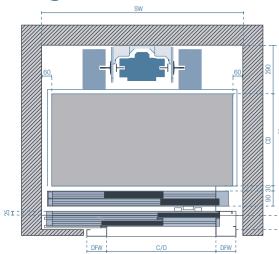
Mechanical position Rear mounted

Doors

2 panel side opening Hydra

Door mounting position Mounted on landings

Entrance Single O^o



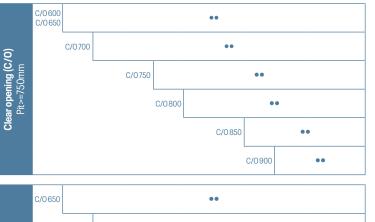
Car dimensions

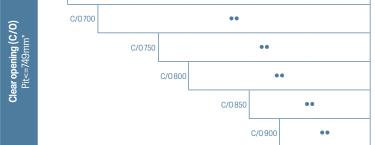
CALCULATION OF CAR DIMENSIONS		
Car width = Shaft width - 120 mm		
Car depth = Shaft depth - 465 mm		
Maximum car width:	1450 mm	
Minimum car width C/O 600:	630 mm	
Minimum car width C/O 650:	680 mm	
Minimum car width C/O 700:	730 mm	
Minimum car width C/O 750:	780 mm	
Minimum car width C/O 800:	830 mm	
Minimum car width C/O 850:	880 mm	
Minimum car width C/O 900:	930 mm	
Maximum car depth:	1200 mm	
Minimum car depth :	550 mm	

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps







* Minimum clear opening (C/O) = 650mm

Minimum pit areas

—	1350 mm
All others	1050 mm

Minimum reduced pit EN 81-21: 350 mm

320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

▶ 3600 mm

Load

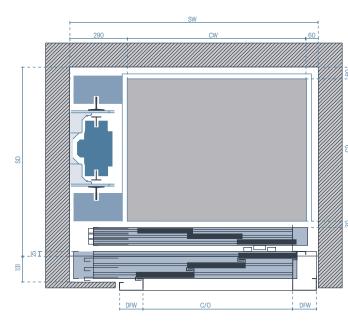
225Kg 320Kg 375Kg 450Kg 525Kg 630Kg

Door frame width

Doors **3 panel side opening Hydra**

Door mounting position
Mounted on landings

Entrance Single O^o

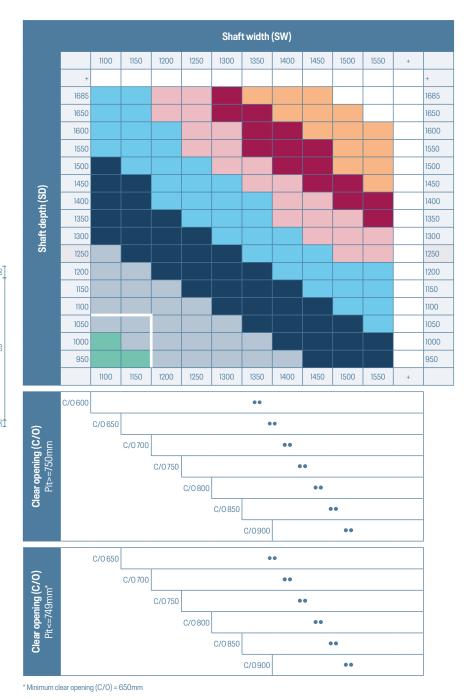


Car dimensions

CALCULATION OF CAR DIMENSIONS			
Car width = Shaft width - 350 mm			
Car depth = Shaft depth - 235 mm			
 Maximum car width: Minimum car width: Maximum car depth: Minimum car depth: 	1200 mm Clear opening + 50 mn 1450 mm 715 mm		

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps



Minimum pit areas

—	1350 mm
All others	1050 mm

Minimum	reduced	pit E	EN 8	81-21:	350	mm

320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

▶ 3600 mm

Load

180Kg 225Kg 320Kg 375Kg 450Kg 525Kg 630K

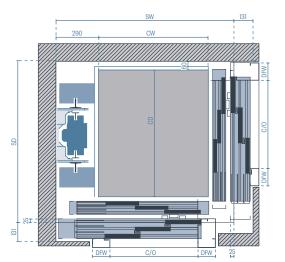
Door frame width

Mechanical position **Side**

Doors 3 panel side opening Hydra

Door mounting position
Mounted on landing

Entrance Through car 90°



Car dimensions

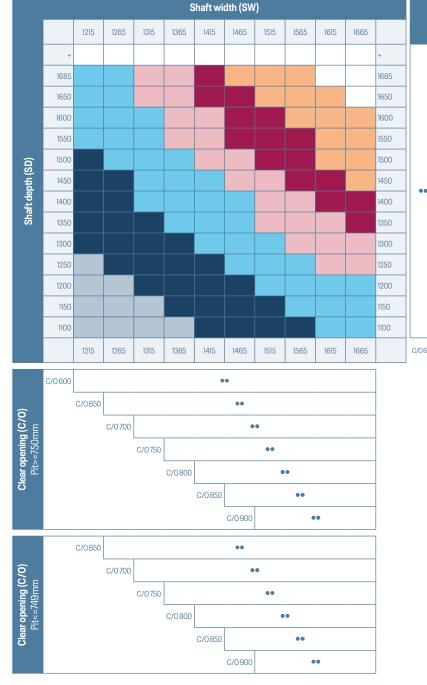
CALCULATION OF CAR DIMENSIONS

Car width = Shaft width - 465 mm Car depth = Shaft depth - 235 mm

- Maximum car width: 1200 mm
- Minimum car width: Clear opening 0° + 150 mm
- Maximum car depth: 1450 mm
- Minimum car depth: Clear opening 90° + 230 mm

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps





Load

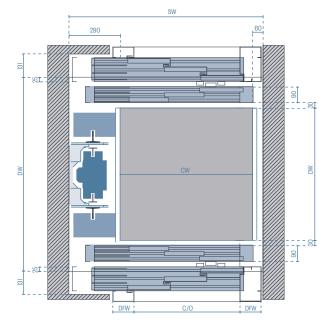
225Kg 320Kg 375Kg 450Kg 525Kg 630Kg

Door frame width

Doors **3 panel side opening Hydra**

Door mounting position
Mounted on landing

Entrance Through car 180°

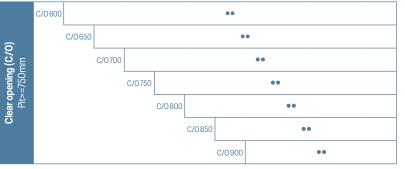


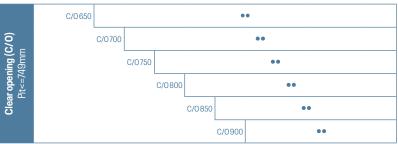
Car dimensions

Car width = Shaft width - 350 mm			
Car depth = Shaft depth - 350 mm			
Maximum car width: 1200 mm			
Minimum car width: Clear opening + 50 mr			
Maximum car depth : 1450 mm			
Minimum car depth:	750 mm		

Maximum car area 1,65 m² Width and depth of car dimensions in 5mm steps







Minimum pit areas

—	1350 mm
All others	1050 mm

Minimum reduced pit EN 81-21: 350 mm

320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

▶ 3600 mm

Load

180Kg 225Kg 320Kg 375Kg 450Kg 525Kg 630K

Door frame width

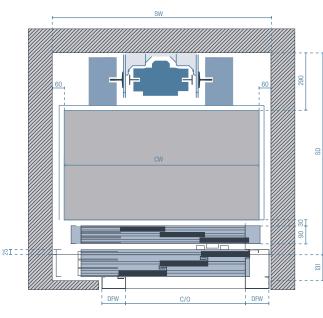
Mechanical position Rear mounted

Doors

3 panel side opening Hydra

Door mounting position
Mounted on landing

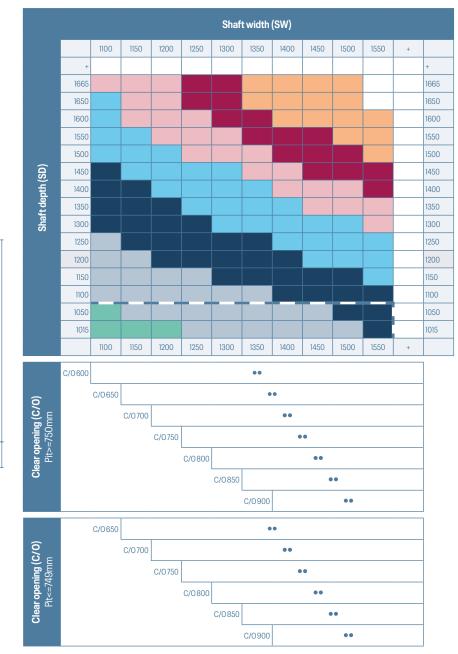
Entrance Single O^o



Car dimensions

CALCULATION OF CAR DIMENSIONS		
Car width = Shaft width - 120 mm		
Car depth = Shaft depth - 465 mm		
Maximum car width:	1450 mm	
Minimum car width:	Clear opening + 30 mn	
Maximum car depth:	1200 mm	
Minimum car depth:	550 mm	

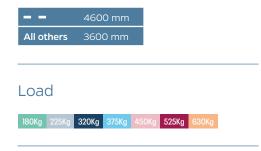
Maximum car area 1,65 m² Width and depth of car dimensions in 5mm steps



Minimum pit areas

- ▶ 1050 mm
- Minimum reduced pit EN 81-21: 350 mm
- 320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

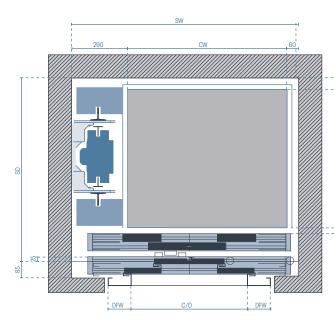


Door frame width

Doors
4 panel central opening Hydra

Door mounting position
Mounted on landings

Entrance Single O^o

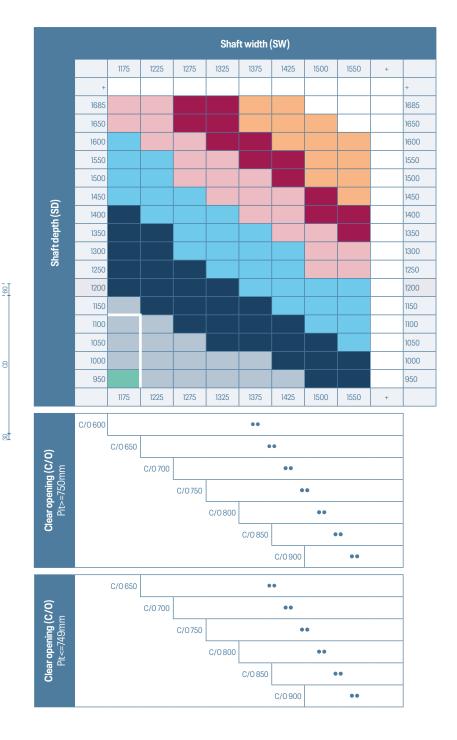


Car dimensions

CALCULATION OF CAR DIMENSIONS			
Car width = Shaft width - 350 mm			
Car depth = Shaft depth - 235 mm			
Maximum car width:	1200 mm		
Minimum car width:	Clear opening + 50 mm		
Maximum car depth:	1450 mm		
Minimum car depth:	715 mm		

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps



Minimum pit areas

—	1350 mm
All others	1050 mm

Minimum reduced pit EN 81-21: 350 mm

> 320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

▶ 3600 mm

Load

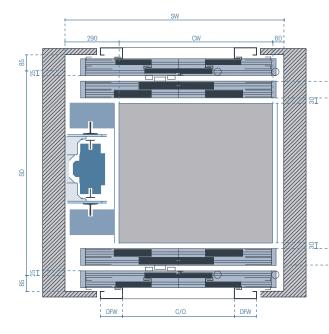
180Kg 225Kg 320Kg 375Kg 450Kg 525Kg 630K

Door frame width

Doors 4 panel central opening Hydra

Door mounting position **Mounted on landings**

Embarque Through car 180°



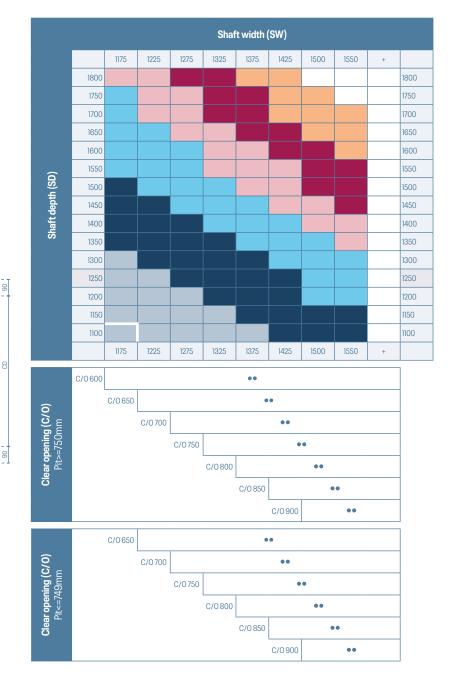
Car dimensions

CALCULATION OF CAR DIMENSIONS			
Car width = Shaft width - 350 mm			
Car depth = Shaft depth - 350 mm			
Maximum car width:	1200 mm		
Minimum car width:	Clear opening + 50 mm		
Maximum car depth:	1450 mm		
Minimum car depth:	750 mm		

Minimum car depth:

Maximum car area 1.65 m²

Width and depth of car dimensions in 5mm steps



Minimum pit areas

—	1350 mm
All others	1050 mm

Minimum reduced pit EN 81-21: 350 mm

320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

> 3600 mm

Load

320Kg 525Kg

Door frame width

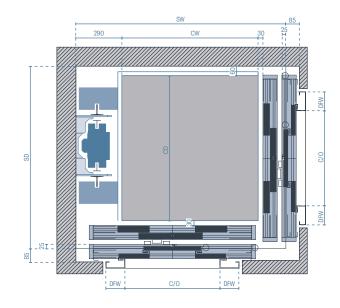
Mechanical position **Side**

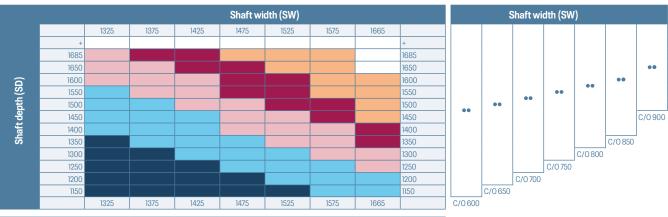
Doors

4 panel central opening Hydra

Door mounting position Mounted on landings

Embarque Through car 90°







Car dimensions

CALCULAT	ION OF CAR	DIMENSIONS
	ch of the late	465

Car width = Shaft width - 465 mm

FCar depth = Shaft depth - 235 mm

- Maximum car width: 1200 mm
- Minimum car width: Clear open

- Maximum car depth: 1450 mm
- Clear opening 0°+260 mm

 Minimum car depth: Clear opening 90°+250 mm

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps

Minimum pit areas

1050 mm

- Minimum reduced pit EN 81-21: 350 mm
- ▶ 320 mm subject to a technical study

Minimum headroom requirements (car height 2175 mm)

▶ 3600 mm

Load

320Kg 375Kg 450Kg 525Kg 630Kg

Door frame width

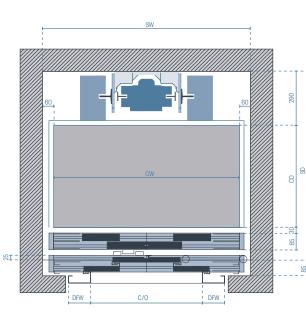
Mechanical position Rear mounted

Doors

4 panel central opening Hydra

Door mounting position **Mounted on landings**

Entrance Single O°

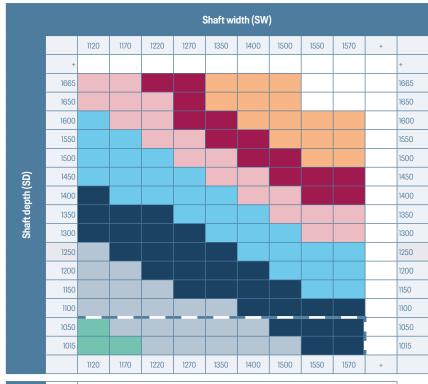


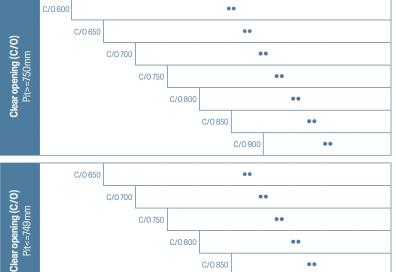
Car dimensions

CALCULATION OF CAR DIMENSIONS			
Car width = Shaft width - 120 mm			
Car depth = Shaft depth - 465 mm			
 Maximum car width: Minimum car width: Maximum car depth: Minimum car depth: 	1450 mm Clear opening + 30 mr 1200 mm 550 mm		

Maximum car area 1,65 m²

Width and depth of car dimensions in 5mm steps





C/0800

C/0 850

C/0 900

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...

...

_ All others 3600 mm

requirements

Minimum pit areas

Minimum reduced pit EN 81-21: 350 mm

320 mm subject to a technical study

Minimum headroom

(car height 2175 mm)

▶ 1050 mm

Load

320Kg 525Kg

Door frame width





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