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LIFTS...by design 

 SilensPRO®



**Silens Pro®** Machine-roomless lifts

**Silens Pro®** is a full range of **machine-roomless lifts with gearless, permanent magnet traction motors** designed to **meet any vertical traffic needs**.

The **Silens Pro®** range of lifts covers a **wide range of loads, sizes, speeds, applications and decorative possibilities** providing the best solution for any project or type of building.



### Existing buildings

Existing buildings have spaces that are often limited and complicated.

**Silens Pro Compact®** is a state-of-the-art gearless lift capable of getting through the smallest shafts.



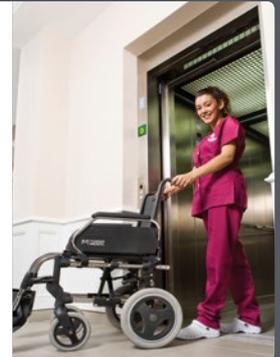
### Residential Buildings

**Silens Pro Top®** is the ideal solution for residential buildings due to its reliability, durability, passenger safety, silence and comfort.



### Hospitals

Hospitals need patients and medical equipment to be moved safely, reliably and silently: **the Silens Pro® range** offers various durable, reliable and tailored solutions for use in medical centres.



### Shopping centres

**Silens Pro Vanguard®** and **Silens Pro Mega®** lifts are very suitable for carrying passengers and goods in malls and shops: they have the capacity for large loads, are robust and very reliable.



### Industry

Robust, durable, reliable and durable, **Silens Pro Mega®** is a lift designed to offer the best performance carrying large loads in industrial facilities.



### Office buildings

Office buildings often have high volumes of passenger traffic. **Silens Pro®** offers **various solutions** capable of solving any need for vertical traffic in office and commercial buildings with optimum traffic management.



# One range: all solutions

Introducing the **Silens Pro**<sup>®</sup> range: the most advanced MRL high-performance gearless lifts.



## Guaranteed Results

**Thousands** of **Silens Pro**<sup>®</sup> lifts of all types of loads, sizes and configurations, **installed in over sixty countries on five continents, are the best guarantee** of their high performance, capable of satisfying the most demanding requirements and specifications.

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## Machine-roomless

**Silens Pro**<sup>®</sup> lifts are machine-roomless, saving space and providing greater freedom in building design.

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## Quiet, efficient and ecological traction

The **Silens Pro**<sup>®</sup> range of lifts is equipped with state-of-the-art, eco-friendly, energy-efficient, compact and durable permanent magnet gearless motors.

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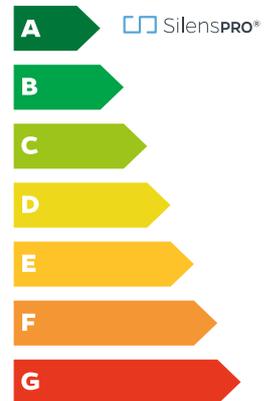


## Energy efficiency

A **Silens Pro**<sup>®</sup> lift is synonymous with energy efficiency and sustainability.

**Silens Pro**<sup>®</sup> lifts have been given the highest score for energy efficiency in compliance with the VDI4707 standard according to the five categories for intensity of use: AAAAA.

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## Unbeatable travel comfort

A **Silens Pro**<sup>®</sup> lift always provides the passenger with a unique travel experience characterised by smooth and quiet movement without oscillations, vibrations or sudden movements.

- The powerful **Altamira II** controls the lift with complete precision in perfect integration with the gearless motor and other elements that regulate movement.
  - Only **Silens Pro**<sup>®</sup> lifts include as standard the **Direct Approach System**, which optimises the speed of the lift for each trip and reduces travel and waiting times
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## Easy and rapid installation

The installation protocol for **Silens Pro**® is the result of many years of research and experience and is designed to enable shipping, handling and assembly of the material on site as quickly and easily as possible, minimising labour costs and ensuring the best results.

### Packaging optimisation

**Silens Pro**® is delivered in packaging which is designed to facilitate the installers' work as much as possible. All parts and components of the lift are supplied in a set of sealed packages duly identified and ordered according to a sequential process for assembling the equipment. The material is supplied, numbered and labelled and is accompanied by lists, documentation and assembly manuals with a high degree of detail.

### Checked cars

Each of our cars is assembled, tested and dismantled in our factory before shipment, so as to guarantee perfect assembly.

### Plug-in and Go

The electrical assemblies are supplied pre-tested and pre-wired and are tested with the same gearless motor that will be supplied with the lift. All this greatly reduces margins of error on site by shortening the installation process and optimising results.

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## Technical support professional to professional

During installation and/or maintenance work, we provide our customers with mechanical and electrical technical support tailored to their particular needs. In real time, in your language and using highly qualified engineers.

### Customer training

- We offer our clients multilingual learning and training tools in both face-to-face and remote formats.
  - Among our training tools there are detailed videos of the assembly processes for each lift as well as step-by-step manuals.
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# We consider **economic, social and environmental sustainability** as an essential reference for our business

## Sustainable Manufacturing

**Silens Pro**® lifts are designed and manufactured in accordance with the most modern and sustainable production processes.

- Mainly galvanised components are used in the manufacture of **Silens Pro**® lifts, to minimise the use of paints and enable a lower consumption of steel per lift, which means a more efficient and responsible use of resources.
- We use special high strength steel that reduces the weight of the mechanical parts and enhances energy saving.
- The entire production cycle of **Silens Pro**® lifts, from the entry of raw materials to the treatment of waste, is sustainable and complies with **ISO 14001**, an internationally accepted standard that establishes the implementation of an effective environmental management system.

## Energy Efficiency Options

The efficient and sustainable consumption of energy is a common goal.

- Choosing the **Silens Pro**® solution suitable for each project and type of building, the appropriate number of lifts to install and their size, are the first steps to optimising energy savings.
- When the cars are not occupied by passengers, the lifts can enter **stand-by mode**. This saves a significant amount of energy over a year, with better sustainability of the installation.
- Our permanent magnet gearless motors have much lower energy consumption levels than a conventional traction motor.
- The power consumption of the car lighting is drastically reduced by using efficient LED lights.
- The **EcoSaver Regenerative System**®, optionally available, allows the gearless motor to act as an energy generator when the lift rises empty or with only a few passengers, or when it descends with a lot of weight.
- We offer solutions with **energy accumulators** that allow power generated during a trip to be stored for subsequent consumption and the consequent economic savings that this entails.



# Infinite possibilities

Whatever the need and type of building, there is always a **Silens Pro®** lift capable of providing an ideal solution.

## A **Silens Pro®** for every need

The **Silens Pro®** range covers a range of loads from 300 kg to 4000 kg with speeds of 1 and 1.6 m per sec. This ensures that whatever the need and type of building (residential, hotel, hospital, shopping centre, office, etc.) there is always a **Silens Pro®** lift capable of providing the ideal solution.

## Structures

For those projects that require it, we offer a complete range of modular assembly structures that can be manufactured for any size of shaft and configuration and finished in painted sheet or glass. We have both indoor and outdoor structures.

## A wide range of doors and floors

The lifts allow automatic doors with telescopic or central opening, manufactured in a range of widths from 700 mm to 2100 mm. Available with different door panels and opening modes and finished in stainless steel, glazed or painted in a wide palette of colours.





## Silens Pro<sup>®</sup> meets the most demanding European and international standards

### Europe

**EN81-20:** Safety rules for the construction and installation of lifts. Lifts to carry people and goods. Part 20: Lifts for people and goods.

**EN81-50:** Safety rules for the construction and installation of lifts. Lifts to carry people and goods. Part 50: Rules of design, calculation, inspection and testing of lift components.

**EN81-28:** Remote alarms in passenger lifts and passenger and goods lifts.

**EN81-58:** Test of fire resistance of floor doors.

**EN81-70:** Personal accessibility of lifts, including people with disabilities.

**EN81-71:** Lifts resistant to vandalism.

**EN81-72:** Lifts for fire fighting.

**EN81-73:** Response of lifts in the event of fire.

**EN81-77:** Lifts subject to seismic conditions.

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### Adapts to any space

Each **Silens Pro<sup>®</sup>** is manufactured in a wide variety of sizes and configurations which can be ordered in addition to those in this catalogue, offering great flexibility in adapting to the unique needs of each project.



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### Australia

**AS1735**

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### Russia

**PUBEL PB 10-558-03**

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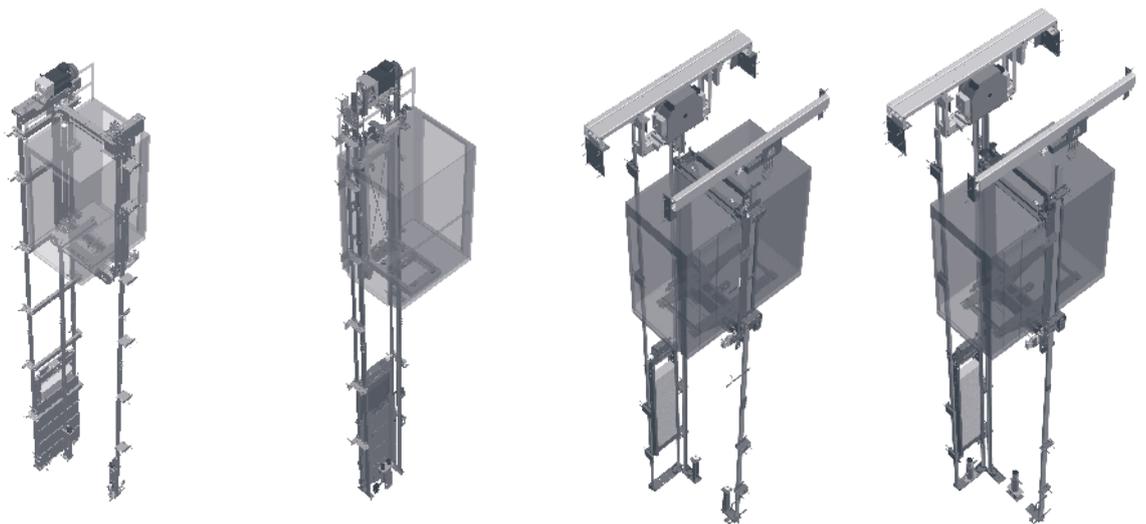
# Silens Pro® Range

SilensPRO®  
TOP

SilensPRO®  
COMPACT

SilensPRO®  
VANGUARD I

SilensPRO®  
VANGUARD II

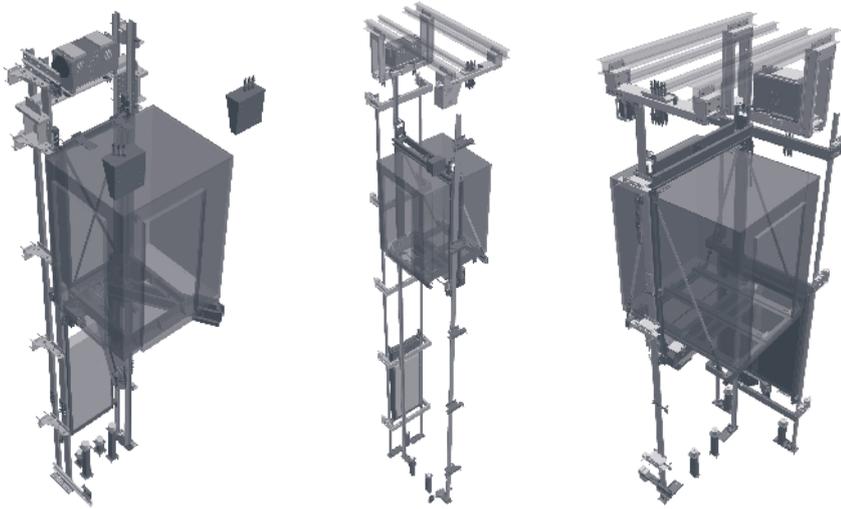


<b>Load (Kg)</b>	300-630	300-630	750-1000	630-1000
<b>Max. speed</b>	1 m/s	1 m/s	1 m/s	1.6 m/s
<b>Minimum pit</b>	1050mm	350mm	1050mm	1300mm
<b>Headroom</b>	3400mm	2750mm	3400mm	3800mm
<b>Roping</b>	2:1	2:1	2:1	2:1
<b>Entrances</b>	0° and 180°	0°, 90° and 180°	0° and 180°	0° and 180°
<b>Sling type</b>	Conventional pulleys above	Rucksack frame	Conventional pulleys above	Conventional pulleys above

 SilensPRO®  
VANGUARD III

 SilensPRO®  
VANGUARD IV

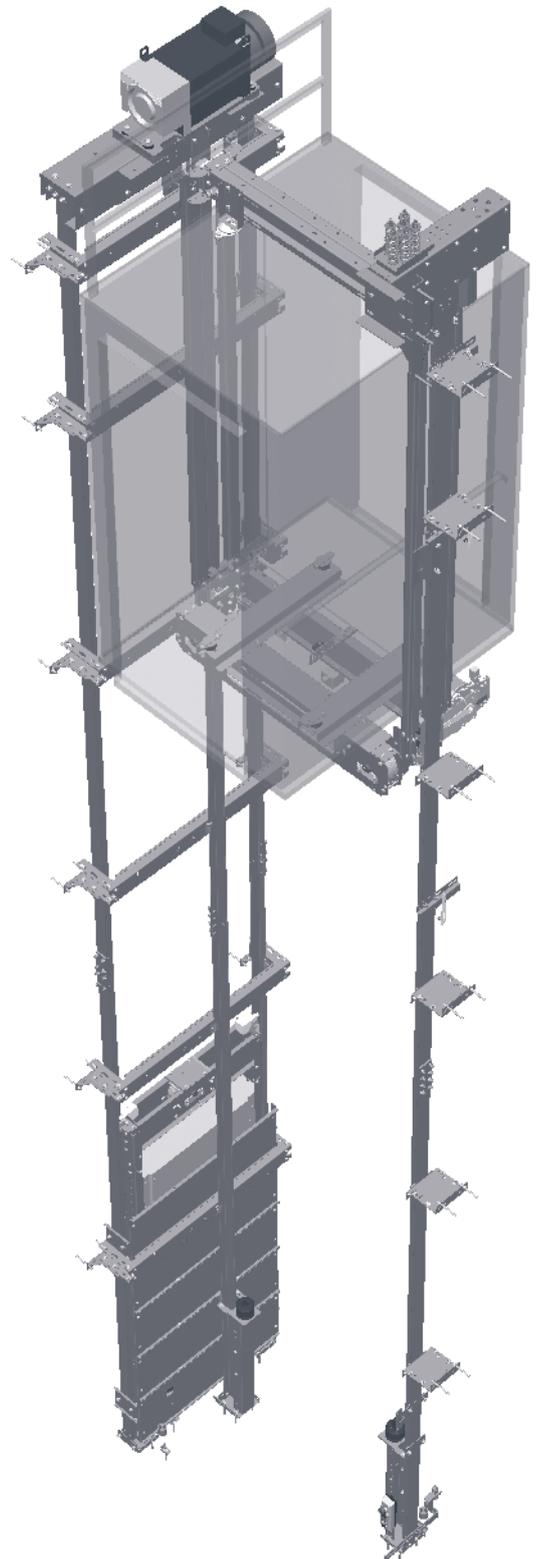
 SilensPRO®  
MEGA



<b>Load (Kg)</b>	750-1275	1275	1350-4000
<b>Max. speed</b>	1 m/s	1 and 1.6 m/s	1 and 1.6 m/s
<b>Minimum pit</b>	1200mm	1300/1400mm	1300/1400mm
<b>Headroom</b>	3450 mm (Below load beam)	3600/3850mm	3600/4200mm
<b>Roping</b>	2:1	2:1	2:1 - 4:1
<b>Entrances</b>	0°, 90° and 180°	0° and 180°	0° and 180°
<b>Sling type</b>	Rucksack frame (V)	Conventional pulleys above	Conventional pulleys above

## The solution for buildings with normal traffic

- The **Silens Pro Top®** is a **machine-roomless lift**, with **gearless permanent magnet traction**, ideal for residential or commercial buildings with up to 60 metres of travel.
- **Silens Pro Top®** is a robust, reliable and durable lift.
- It incorporates a gearless motor **which is silent, environmentally friendly, compact** and light, designed to occupy the smallest possible space inside a shaft.
- **Very low energy consumption.**
- Designed specifically to **save space** in the building and at the same time provide **cars** that are spacious and comfortable for the user.
- **Easy to install and maintain.** Specific installation tools available on request.
- Equipped as standard with **Direct Approach to Floor**, giving the lift **unbeatable travel** comfort.
- Meets the new standards **EN81-20 and EN81-50.**



<b>Load</b>	300-630 kg
<b>Rated speed</b>	1 m/s
<b>Openings</b>	Single Double access 0°-180°
<b>Control system</b>	Altamira II
<b>Cars</b>	210, 310, 350, 550, 710 Series
<b>Car and landing doors</b>	600, 700, 800, 900 mm
<b>Maximum travel</b>	60 m

**RATED LOAD • 300 kg / 4 people**      **ROPING • 2:1**      **MAXIMUM SPEED • 1 m/s**

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	850	1000	1350	1225	3400	1050	Side opening 2H 700
2/180°	850	1000	1350	1325			
1/0°	800	1050	1300	1275			
2/180°	800	1100	1300	1425			
1/0°	900	950	1400	1175			
2/180°	900	1000	1400	1325			

**RATED LOAD • 375kg / 5 people**      **ROPING • 2:1**      **MAXIMUM SPEED • 1 m/s**

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	800	1200	1300	1425	3400	1050	Side opening 2H 700
2/180°	800	1150	1300	1475			
1/0°	850	1150	1350	1375			
2/180°	850	1100	1350	1425			
1/0°	900	1050	1400	1275			
2/180°	900	1050	1400	1375			

**RATED LOAD • 450kg / 6 people**      **ROPING • 2:1**      **MAXIMUM SPEED • 1 m/s**

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	950	1200	1450	1425	3400	1050	Side opening 2H 800
2/180°	950	1200	1450	1525			
1/0°	1000	1150	1500	1375			
2/180°	1000	1100	1500	1425			
1/0°	1000	1200	1500	1425			
2/180°	1000	1200	1500	1525			
1/0°	1000	1250	1500	1475			
2/180°	1000	1250	1500	1575			

**RATED LOAD • 630kg / 8 people**      **ROPING • 2:1**      **MAXIMUM SPEED • 1 m/s**

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1100	1400	1600	1675	3400	1050	Side opening 2H 800
2/180°	1100	1400	1600	1775			
1/0°	1100	1400	1600	1675			Side opening 2H 900
2/180°	1100	1400	1600	1775			

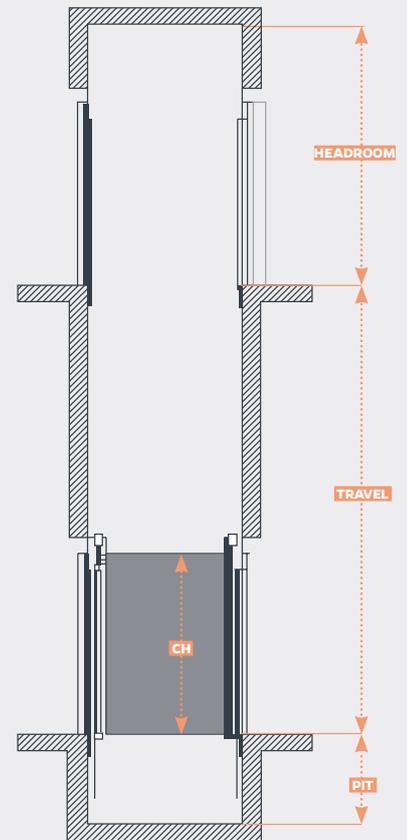
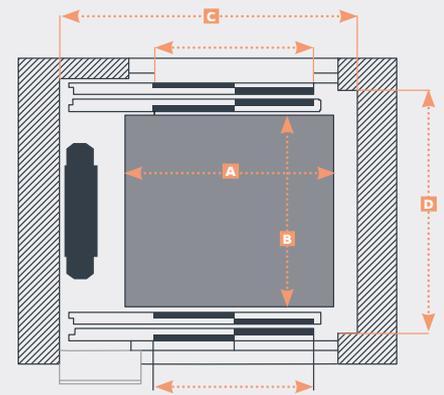
Minimum shaft and car dimensions

Standard car dimensions

Car EN81-70

\* According to the door and opening type.

\*\* Headroom option reduced by 3250 mm with 2050 mm car.

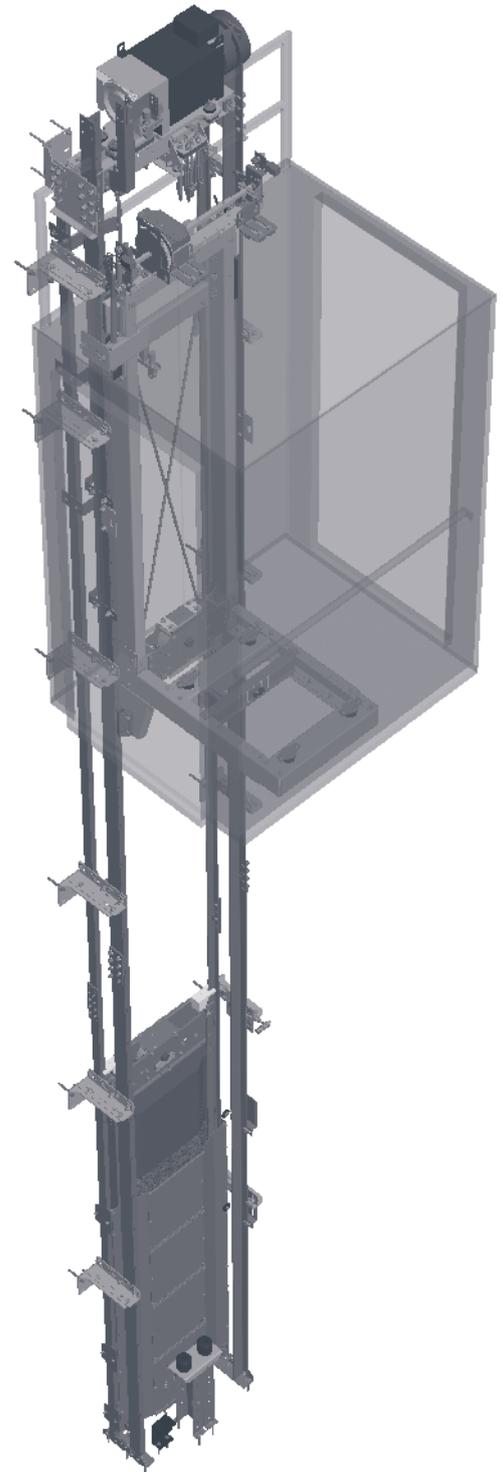


## Operational ranges (standard mechanics)

<b>Maximum travel</b>	Up to 60 m	
<b>Shaft</b>	<b>Pit</b>	Standard minimum: 1050 mm
	<b>Headroom</b>	Standard minimum (2200 mm) car: 3400 mm Reduced minimum (2050 mm car): 3250 mm
	<b>Minimum width</b>	Car width + 500 mm
	<b>Minimum depth</b>	Single entrance: 950mm Double entrance: 1050mm
<b>Car</b>	<b>Maximum depth</b>	1500 mm
	<b>Minimum width</b>	800 mm
	<b>Maximum width</b>	1300 mm
	<b>Standard height</b>	2200 mm (options from 2050 mm to 2300 mm in increments of 50 mm)

## The solution for restricted spaces

- The Silens Pro Compact® is a machine-roomless lift with permanent magnet gearless traction designed for installation in confined spaces. It's ideal for existing buildings .
- It can be installed with **ultra-low headroom and pit clearance**.
- Allows **single, double 90° or 180° and triple access**.
- It incorporates a gearless motor **which is silent, environmentally friendly, compact** and light, designed to occupy the smallest possible space inside a shaft.
- **Very low energy consumption**.
- **Easy to install and maintain**. Specific installation tools available on request.
- Equipped as standard with the **Direct Approach to Floor**, giving the lift **unbeatable travel** comfort.
- Meets the new standards **EN81-20 and EN81-50**.



<b>Load</b>	300-630 kg
<b>Rated speed</b>	1 m/s
<b>Openings</b>	Single Double access 90°-180° Triple access
<b>Control system</b>	Altamira II
<b>Cars</b>	210, 310, 350, 550, 710 Series
<b>Car and Landing Doors</b>	600, 700, 800, 900 mm
<b>Maximum travel</b>	60 m

## Side-mounted system

RATED LOAD • 300kg / 4 people			ROPING • 2:1		MAXIMUM SPEED • 1 m/s		
Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	850	1000	1300	1240	3400	1050	Side opening 2H PL700
2/180°	850	1000	1300	1330			
2/90°	850	1000	1400	1340			

RATED LOAD • 375kg / 5 people			ROPING • 2:1		MAXIMUM SPEED • 1 m/s		
Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	900	1100	1350	1340	3400	1050	Side opening 2H PL700
2/180°	900	1100	1350	1430			
2/90°	900	1100	1450	1340			

RATED LOAD • 450kg / 6 people			ROPING • 2:1		MAXIMUM SPEED • 1 m/s		
Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1000	1200	1450	1440	3400	1050	Side opening 2H PL800
2/180°	1000	1200	1450	1530			
2/90°	1000	1200	1550	1500			
1/0°	1000	1250	1450	1490	3400	1050	Side opening 2H PL800
2/180°	1000	1250	1450	1580			
2/90°	1000	1250	1550	1500			

RATED LOAD • 630kg / 8 people			ROPING • 2:1		MAXIMUM SPEED • 1 m/s		
Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1100	1400	1550	1640	3400	1050	Side opening 2H PL900
2/180°	1100	1400	1550	1730			
2/90°	1100	1400	1650	1650			

## Rear-mounted system

RATED LOAD • 300kg / 4 people			ROPING • 2:1		MAXIMUM SPEED • 1 m/s		
Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1000	850	1230	1425	3400	1050	Central 4H PL700

RATED LOAD • 375kg / 5 people			ROPING • 2:1		MAXIMUM SPEED • 1 m/s		
Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1100	900	1230	1475	3400	1050	Central 4H PL700

RATED LOAD • 450kg / 6 people			ROPING • 2:1		MAXIMUM SPEED • 1 m/s		
Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1200	1000	1360	1575	3400	1050	Central 4H PL800

RATED LOAD • 630kg / 8 people			ROPING • 2:1		MAXIMUM SPEED • 1 m/s		
Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1400	1100	1530	1675	3400	1050	Central 4H PL900

## Operational ranges (standard mechanics)

<b>Maximum travel</b>	Up to 60 m	
<b>Shaft</b>	<b>Pit</b>	Standard minimum: 1050 mm (EN81-20) Reduced minimum EN81-21: 350 mm Reduced minimum: 375 mm (with floor thickness of 25 mm)
	<b>Headroom</b>	Standard minimum (2200 mm) car: 3400 mm Reduced minimum (2050 mm car): 3250 mm Reduced minimum EN81-21 with car 2000 mm: 2700 mm
	<b>Minimum width</b>	Car width + 450 mm (Side mechanics)
	<b>Mechanics Lateral</b>	<b>Minimum depth</b> 650 mm <b>Maximum depth</b> 1600 mm <b>Minimum width</b> 700 mm <b>Maximum width</b> 1200 mm
<b>Car</b>	<b>Mechanics Depth</b>	<b>Minimum depth</b> 700 mm <b>Maximum depth</b> 1200 mm <b>Minimum width</b> 800 mm <b>Maximum width</b> 1600 mm
	<b>Standard height</b>	2200 mm (options from 2000 mm to 2300 mm in increments of 50 mm)

Minimum shaft and car dimensions

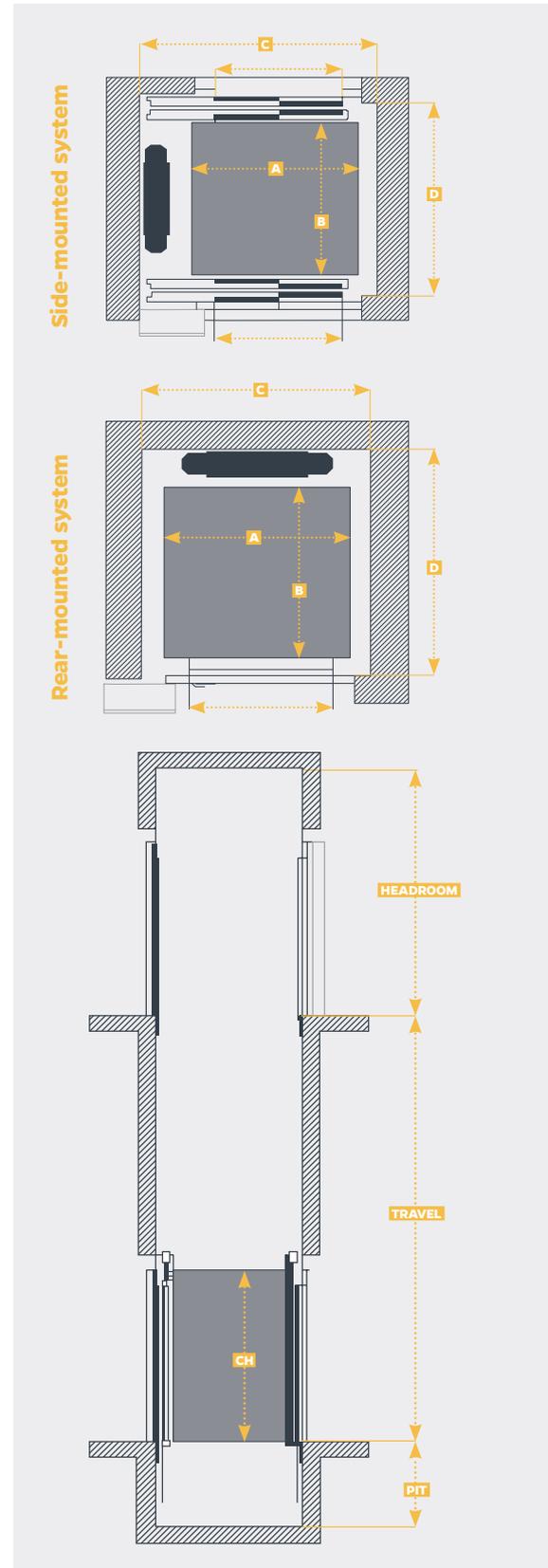
Standard car dimensions

Car EN81-70

\* According to the door and opening type.

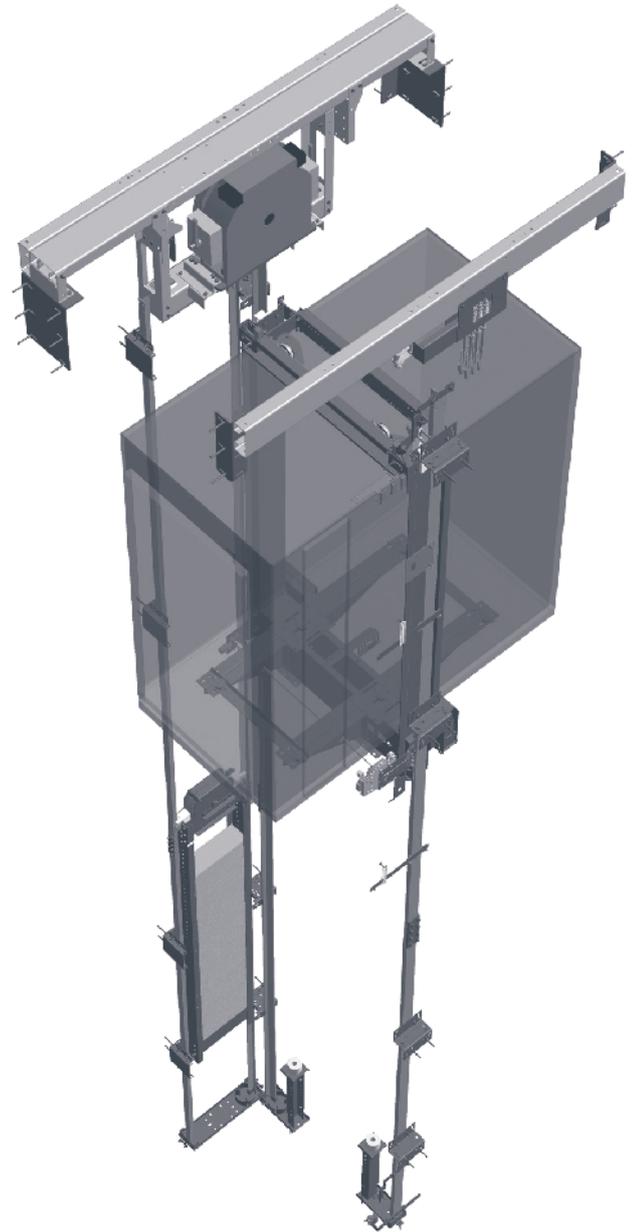
\*\* Headroom option reduced by 3250 mm with 2050 mm car.

\*\*\* Minimum pit option up to 350 mm (EN81-21). For headroom and pit reduced shafts (simultaneously) P+Q must be revised. Door clearances will be studied according to project for double embarkations at 90° or triple embarkations. Other door clearances will be studied according to project



## The solution for medium to high traffic buildings

- The Silens Pro Vanguard I® is a machine-roomless lift with permanent magnets gearless traction, ideal for office buildings, shopping centres, hotels or other facilities up to 40 metres high.
- The Silens Pro Vanguard I® is a **robust, reliable** and highly durable lift.
- It incorporates a gearless motor **which is silent, environmentally friendly, compact and light**, designed to occupy the smallest possible space inside a shaft.
- **Very low energy consumption.**
- **Easy to install and maintain.** Specific installation tools available on request.
- Equipped as standard with the **Direct Approach to Floor**, giving the lift **unbeatable travel** comfort.
- Meets the new standards **EN81-20 and EN81-50**.



<b>Load</b>	750-1000 kg
<b>Rated speed</b>	1 m/s
<b>Openings</b>	Single Double access 0°-180°
<b>Control system</b>	Altamira II
<b>Cars</b>	210, 310, 350, 550, 710 Series
<b>Car and Landing Doors</b>	800, 900, 1000 or 1100 mm
<b>Maximum travel</b>	40 m

RATED LOAD • 750kg / 10 people

ROPING • 2:1

MAXIMUM SPEED • 1 m/s

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1100	1600	1600	1875	3400	1050	Side opening 2H PL900
	1300	1400	1800	1675			
	1100	1600	1950	1850			Central opening 2H PL900
	1300	1400	1950	1675			
2 /180°	1100	1600	1600	2000			Side opening 2H PL900
	1300	1400	1800	1800			
	1100	1600	1950	1975			Central opening 2H PL900
	1300	1400	1950	1775			

RATED LOAD • 1000kg / 13 people

ROPING • 2:1

MAXIMUM SPEED • 1 m/s

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1100	2100	1600	2375	3400	1050	Side opening 2H PL900
	1600	1400	2100	1675			Side opening 2H PL1100
	1100	2100	1950	2375			Central opening 2H PL900
	1600	1400	2100	1700			
2 /180°	1100	2100	1600	2500			Side opening 2H PL900
	1600	1400	2100	1800			
	1100	2100	1950	2475			Central opening 2H PL900
	1600	1400	2125	1775			

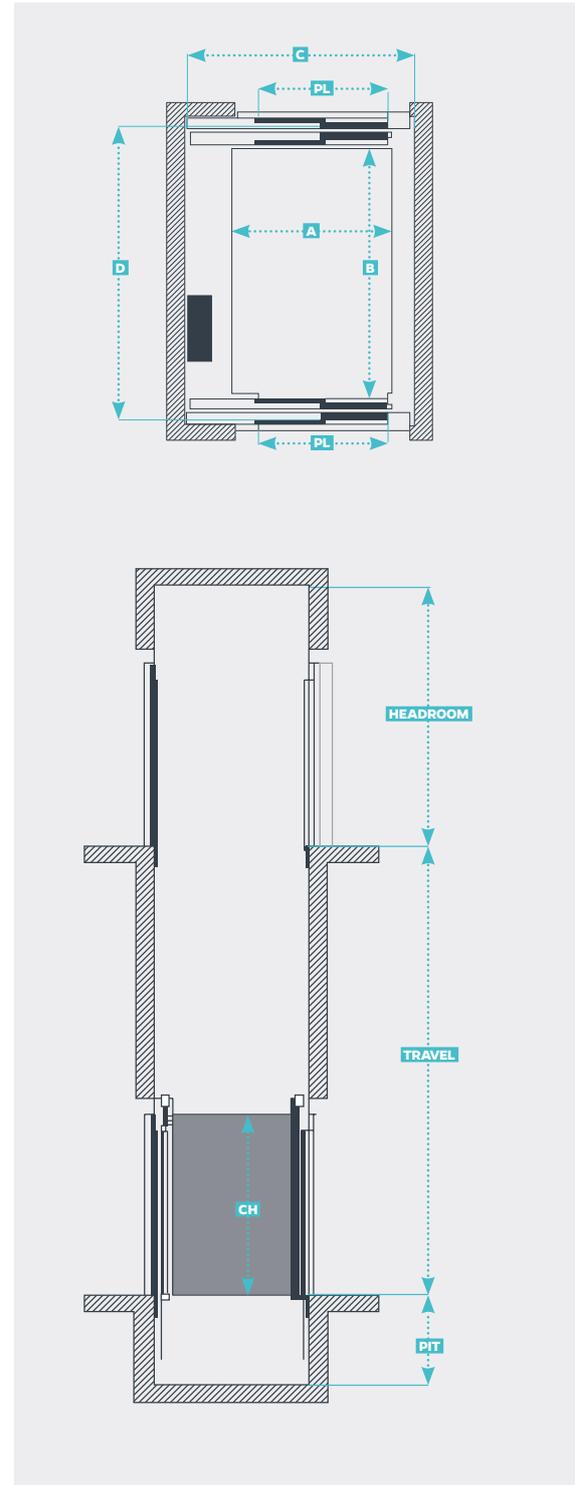
Standard shaft and car dimensions

\* According to the door and opening type.

\*\* Option for reduced headroom of 3250 mm with car of 2050 mm.

\*\*\* For lifts with marble floors or panoramic cars, check pit and headroom.

For lifts with reduced car, consult pit and headroom.

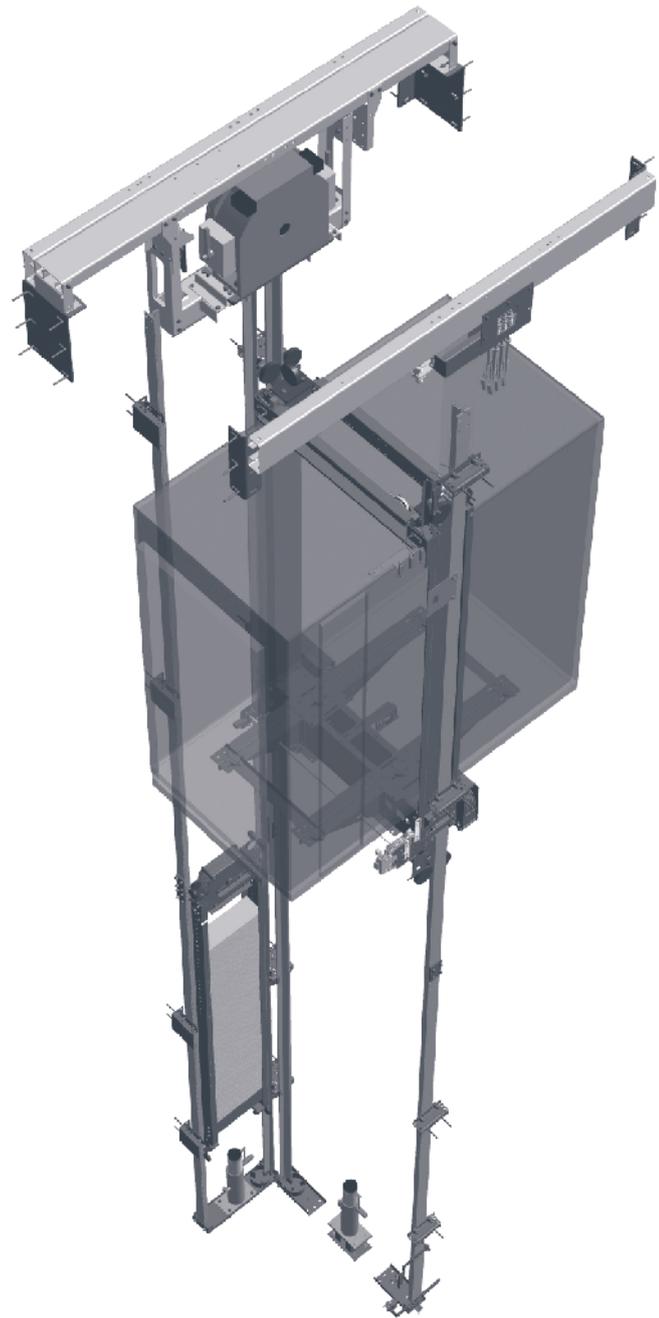


## Operational ranges (standard mechanics)

<b>Maximum travel</b>	Up to 40 m
	<b>Pit</b> Standard minimum: 1050 mm
<b>Shaft</b>	<b>Headroom</b> Standard minimum (2200 mm) car: 3400 mm Reduced minimum (2050 mm car): 3250 mm
	<b>Minimum width</b> Car width + 500 mm
	<b>Minimum depth</b> 1400 mm
<b>Car</b>	<b>Maximum depth</b> 2100 mm
	<b>Minimum width</b> 1000 mm
	<b>Maximum width</b> 1650 mm
	<b>Standard height</b> 2200 mm (2050 mm and 2100 mm option)

## The solution for high-traffic buildings

- The Silens Pro Vanguard II® is a machine-roomless lift with permanent magnets gearless traction, **ideal for office buildings, shopping centres, hotels or other facilities up to 60 metres high.**
- Its speed of **1.6 m per sec** and its load capacity make it ideal for buildings with a fluid traffic of passengers.
- The Silens Pro Vanguard II® is a **robust, reliable and highly durable lift.**
- It incorporates a gearless **motor which is silent, environmentally friendly, compact and light**, designed to occupy the smallest possible space inside a shaft.
- **Very low energy consumption.**
- **Easy to install and maintain.** Specific installation tools available on request.
- Equipped as standard with the **Direct Approach to Floor**, giving the lift **unbeatable travel** comfort.
- Meets the new standards **EN81-20 and EN81-50.**



<b>Load</b>	630-1000 kg
<b>Rated speed</b>	1.6 m/s
<b>Openings</b>	Single Double access 0°-180°
<b>Control system</b>	Altamira II
<b>Cars</b>	210, 310, 350, 550, 710 Series
<b>Car and Landing Doors</b>	800, 900, 1000 or 1100 mm
<b>Maximum travel</b>	60 m

**RATED LOAD • 630kg / 8 people**

**ROPING • 2:1**

**MAXIMUM SPEED • 1.6 m/s**

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1100	1400	1650	1700	3800	1300	Side opening 2H PL900
	1100	1400	1950	1700			Central opening 2H PL900
2/180°	1100	1400	1650	1850			Side opening 2H PL900
	1100	1400	1950	1850			Central opening 2H PL900

Car EN81-70

Standard shaft and car dimensions

\* According to the door and opening type.

\*\* Headroom option reduced by 3650 mm with 2050 mm car.

\*\*\* For lifts with marble floors or panoramic cars, check pit and headroom.

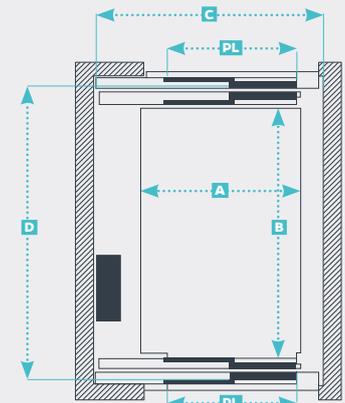
For lifts with reduced car, consult pit and UP.

**RATED LOAD • 750kg / 10 people**

**ROPING • 2:1**

**MAXIMUM SPEED • 1.6 m/s**

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1100	1600	1650	1875	3800	1300	Side opening 2H PL900
	1300	1400	1850	1675			Side opening 2H PL900
	1100	1600	1950	1850			Central opening 2H PL900
	1300	1400	1950	1675			Central opening 2H PL900
2/180°	1100	1600	1650	2000			Side opening 2H PL900
	1300	1400	1850	1800			Side opening 2H PL900
	1100	1600	1950	1975			Central opening 2H PL900
	1300	1400	1950	1775			Central opening 2H PL900

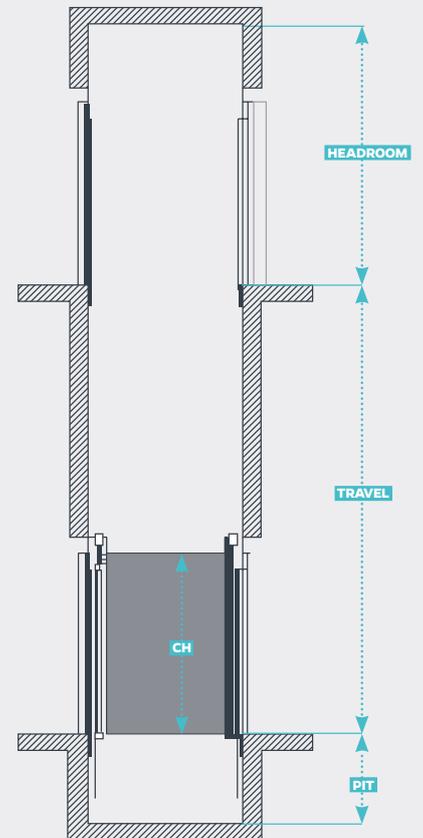


**RATED LOAD • 1000kg / 13 people**

**ROPING • 2:1**

**MAXIMUM SPEED • 1.6 m/s**

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1100	2100	1650	2375	3800	1300	Side opening 2H PL900
	1600	1400	2150	1675			Side opening 2H PL1100
	1100	2100	1950	2375			Central opening 2H PL900
	1600	1400	2150	1700			Central opening 2H PL900
2/180°	1100	2100	1650	2500			Side opening 2H PL900
	1600	1400	2150	1800			Side opening 2H PL1100
	1100	2100	1950	2475			Central opening 2H PL900
	1600	1400	2175	1775			Central opening 2H PL900

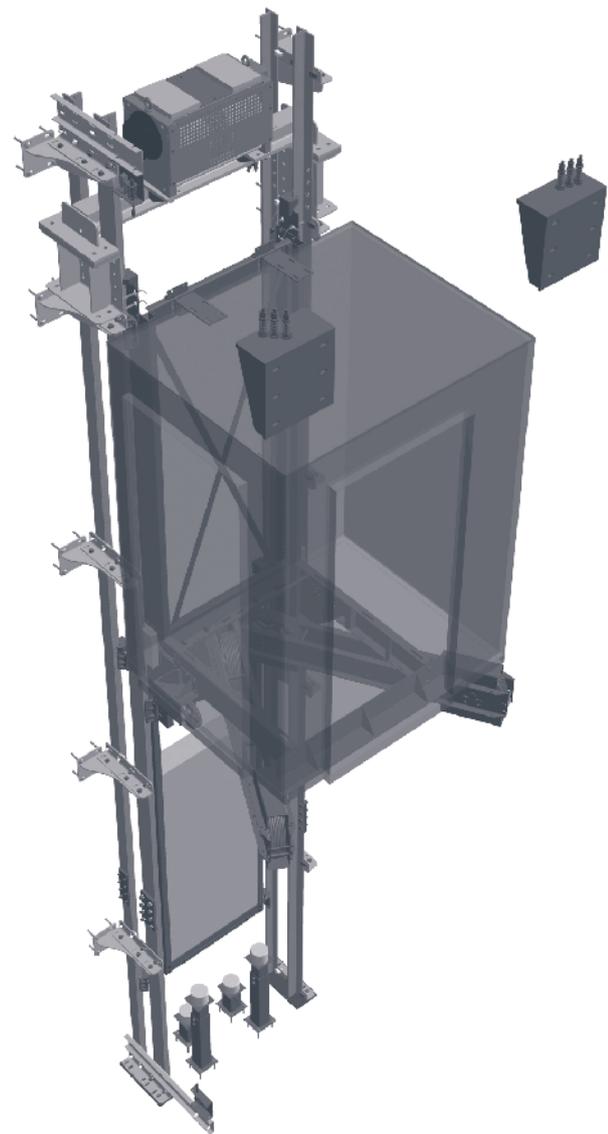


## Operational ranges (standard mechanics)

<b>Maximum travel</b>	Up to 60 m
	<b>Pit</b> Standard minimum: 1300 mm
<b>Shaft</b>	<b>Headroom</b> Standard minimum (2200 mm) car: 3800 mm Reduced minimum (2050 mm car): 3650 mm
	<b>Minimum width</b> Car width + 550 mm
	<b>Minimum depth</b> 1400 mm
<b>Car</b>	<b>Maximum depth</b> 2100 mm
	<b>Minimum width</b> 1000 mm
	<b>Maximum width</b> 1650 mm
	<b>Standard height</b> 2200 mm (2050 mm and 2100 mm option)

## The flexible solution for the commercial sector

- The **Silens Pro Vanguard III®** is a machine-roomless lift with permanent magnets gearless traction, ideal for office buildings, shopping centres, hotels or other facilities up to 40 metres high.
- **Silens Pro Vanguard III®** is a **robust, reliable and highly durable lift**.
- It supports **single, double 90° or 180°, and triple access**.
- It incorporates a gearless motor **which is silent, environmentally friendly, compact and light**, designed to occupy the smallest possible space inside a shaft.
- **Very low energy consumption**.
- **Easy to install and maintain**. Specific installation tools available on request.
- Equipped as standard with the **Direct Approach to Floor**, giving the lift **unbeatable travel** comfort.
- Meets the new standards **EN81-20 and EN81-50**.



<b>Load</b>	750-1275 kg
<b>Rated speed</b>	1 m/s
<b>Openings</b>	Single Double access 90°-180° Triple access
<b>Control system</b>	Altamira II
<b>Cars</b>	210, 310, 350, 550, 710 Series
<b>Car and Landing Doors</b>	800, 900, 1000 or 1100 mm
<b>Maximum travel</b>	40 m

RATED LOAD • 750kg / 10 people

ROPING • 2:1

MAXIMUM SPEED • 1 m/s

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
2/90°	1100	1600	1850	1900	3450 below the load-bearing beam	1200	Side opening 2H PL900 Side opening 3H PL900

RATED LOAD • 1000kg / 13 people

ROPING • 2:1

MAXIMUM SPEED • 1 m/s

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
2/90°	1100	2100	1850	2400	3450 below the load-bearing beam	1200	Side opening 2H PL900 Central opening 4H PL900

RATED LOAD • 1275kg / 17 people

ROPING • 2:1

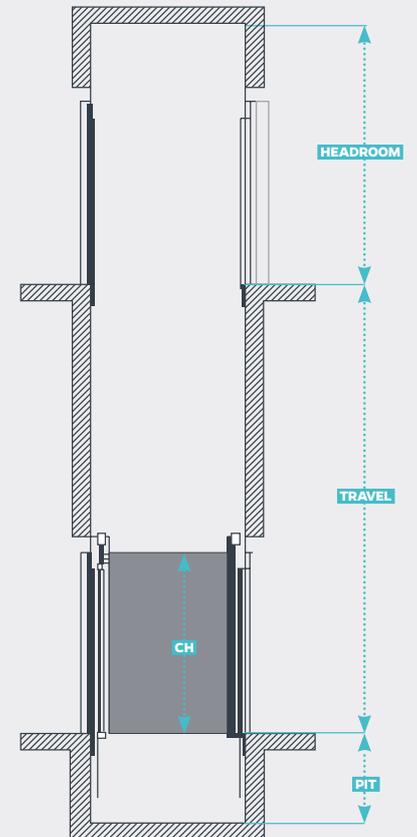
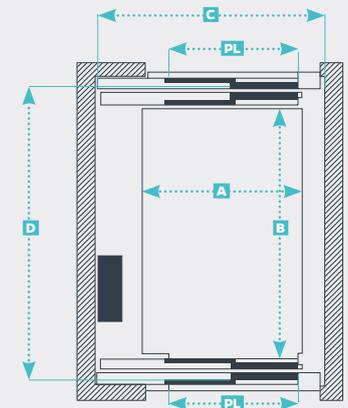
MAXIMUM SPEED • 1 m/s

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1200	2300	1850	2600	3450 below the load-bearing beam	1200	Side opening 2H PL1100
2/180°			1850	2700			Side opening 2H PL1000
2/90°	1950	2600	Side opening 3H PL1100				
1/0°	2350	2600	Central opening 2H PL1100				
2/180°	2350	2700	Central opening 4H PL1100				
2/90°	2000	2600					

Standard shaft and car dimensions

\* According to the door and opening type.

\*\* Option for reduced headroom option of 3300 mm below load-bearing beam with 2050mm car

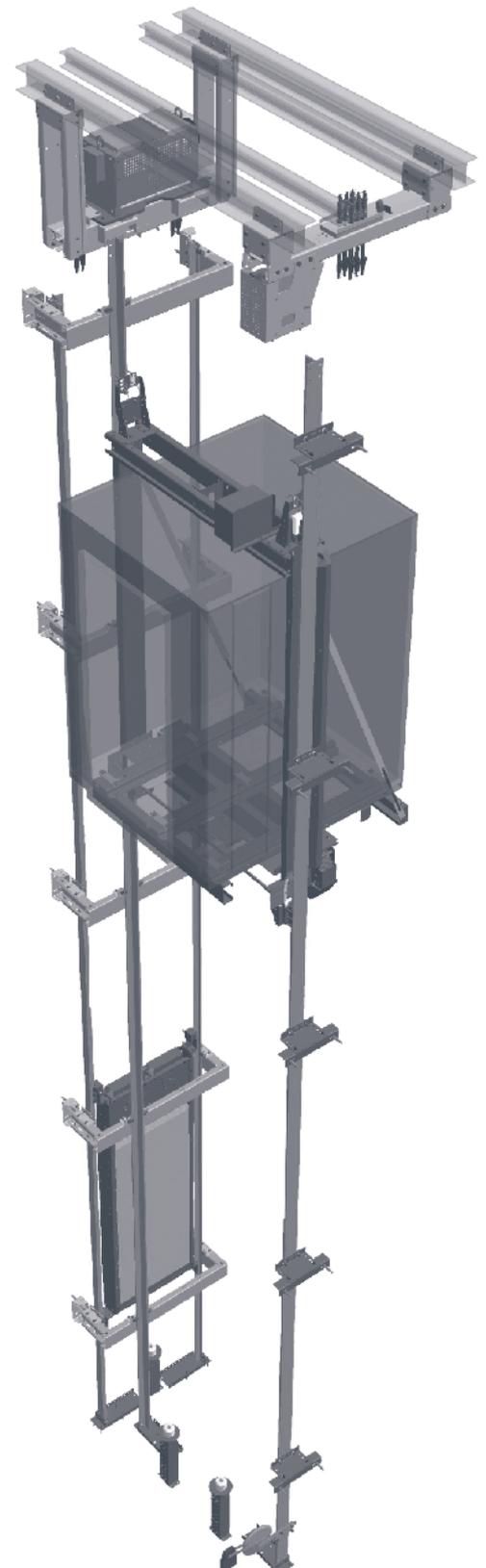


## Operational ranges (standard mechanics)

<b>Maximum travel</b>	Up to 40 m
	<b>Pit</b> Standard minimum: 1200 mm
<b>Shaft</b>	<b>Headroom</b> Standard minimum (2200 mm) car: 3450 mm Reduced minimum (2050 mm car): 3300 mm
	<b>Minimum width</b> Car width + 650 mm
<b>Car</b>	<b>Minimum depth</b> 1400 mm
	<b>Maximum depth</b> 2500 mm
	<b>Minimum width</b> 1000 mm
	<b>Maximum width</b> 1600 mm
	<b>Standard height</b> 2200 mm (2050 mm and 2100 mm option)

## The efficient solution for large loads

- The Silens Pro Vanguard IV® is a machine-roomless lift with permanent magnets gearless traction, ideal for shopping centres, hospitals, hotels or other facilities between 40 and 60 metres in height.
- The Silens Pro Vanguard IV® is a robust, reliable and highly durable lift.
- It incorporates a gearless motor which is ecological, compact, lightweight and designed to occupy as little space as possible inside the shaft.
- Very low energy consumption.
- Easy to install and maintain. Specific installation tools available on request.
- Equipped as standard with the **Direct Approach to Floor**, giving the lift unbeatable travel comfort.
- Meets the new standards **EN81-20 and EN81-50**.



Load	1275 kg
Rated speed	1 m/s · 1.6 m/s
Openings	Single Double 180° access
Control system	Altamira II
Cars	210, 310, 350, 550, 710 Series
Car and Landing Doors	800, 900, 1000 or 1100 mm
Maximum travel	40 m · 60 m

👤 RATED LOAD • 1275kg / 17 people

🚠 ROPING • 2:1

🕒 MAXIMUM SPEED • 1 m/s

Car EN81-70

Standard shaft and car dimensions

\* According to the door and opening type.

\*\* Option for reduced headroom of 3450 mm above the load-bearing beam with 2050 mm cab

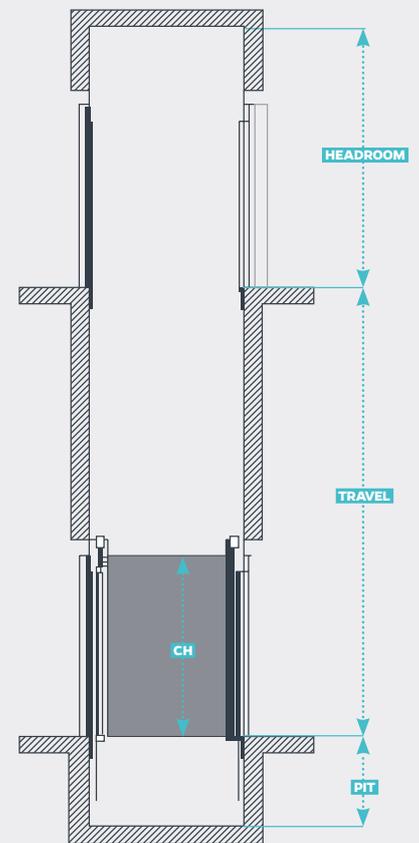
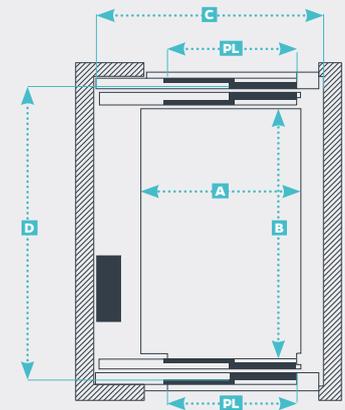
Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	2000	1400	2800	1700	3600	1300	Side opening 2H PL1100
			2800	1675			Central opening 2H PL1100
			2800	1800			Side opening 2H PL1100
2/180°	2000	1400	2800	1775	3600	1300	Central opening 2H PL1100

👤 RATED LOAD • 1275kg / 17 people

🚠 ROPING • 2:1

🕒 MAXIMUM SPEED • 1.6 m/s

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1200	2300	2000	2600	3850	1400	Side opening 2H PL1100
2/180°			2000	2700			Central opening 2H PL1100
1/0°			2350	2600			Side opening 2H PL1100
2/180°			2350	2650			Central opening 2H PL1100
1/0°	2000	1400	2800	1700	3850	1400	Side opening 2H PL1100
			2800	1675			Central opening 2H PL1100
			2800	1800			Side opening 2H PL1100
2/180°	2000	1400	2800	1775	3850	1400	Central opening 2H PL1100



## Operational ranges (standard mechanics)

<b>Maximum travel</b>	Ns = 1 m per sec up to 40 m
	Ns = 1.6 m per sec up to 60 m
<b>Pit</b>	Standard minimum 1300 mm (Ns = 1 m/s) 1400 mm (Ns = 1.6 m/s)
	Standard minimum (2200 mm) car: 3600 mm (Ns = 1 m/s) 3850 mm (Ns = 1.6 m/s)
<b>Hueco</b>	Headroom Reduced minimum (2050 mm) car: 3450 mm (Ns = 1 m/s) 3700 mm (Ns = 1.6 m/s)
	Minimum width Car width + 800 mm
<b>Car</b>	Minimum depth 1400 mm
	Maximum depth 2600 mm
	Minimum width 1100 mm
	Maximum width 2000 mm
	Standard height 2200 mm (2050 mm and 2100 mm option)

## The most robust solution for heavier loads

- The **Silens Pro Mega®** is a machine-roomless lift with permanent magnets gearless traction, ideal for transporting large loads in all types of buildings between 30 and 60 metres of height.
- **Silens Pro Mega®** is an extremely robust and durable lift, equipped with strengthened cars designed to carry heavy loads.
- It incorporates a gearless motor which is silent, environmentally friendly, compact and light, designed to occupy the smallest possible space inside a shaft.
- Loads from **1350 kg to 4000 kg**.
- Speeds of **1 m per sec or 1.6 m per sec**.
- **Very low energy consumption**.
- **Easy to install and maintain**. Specific installation tools available on request.
- Equipped as standard with the **Direct Approach to Floor**, giving the lift unbeatable travel comfort.
- Meets the new standards **EN81-20 and EN81-50**

<b>Load</b>	1350-4000 kg
<b>Rated speed</b>	1 m/s · 1.6 m/s
<b>Openings</b>	Single Double 180° access
<b>Control system</b>	Altamira II
<b>Cars</b>	220 Series
<b>Car and Landing Doors</b>	From 1100 to 2100 mm, depending on model
<b>Maximum travel</b>	From 30 m to 60 m, depending on model

**ROPE** RATED LOAD • 1350kg / 18 people

**ROPING** • 2:1

**MAXIMUM SPEED** • 1 m/s • 1.6 m/s

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1200	2450	2100	2750	3600 (1 m/s)	1300 (1 m/s)	Side opening 2H PL1100
2/180°			2450	2850			Side opening 2H PL1100
1/0°	1200	2450	2450	2750	3850 (1.6 m/s)	1400 (1.6 m/s)	Central opening 2H PL1100
2/180°			2450	2850			Central opening 2H PL1100

**ROPE** RATED LOAD • 1500kg / 20 people

**ROPING** • 2:1

**MAXIMUM SPEED** • 1 m/s • 1.6 m/s

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1300	2400	2200	2700	3600 (1 m/s)	1300 (1 m/s)	Side opening 2H PL1100
2/180°			2450	2800			Side opening 2H PL1100
1/0°	1300	2400	2450	2700	3850 (1.6 m/s)	1400 (1.6 m/s)	Central opening 2H PL1100
2/180°			2450	2800			Central opening 2H PL1100

**ROPE** RATED LOAD • 1600kg / 21 people

**ROPING** • 2:1

**MAXIMUM SPEED** • 1 m/s • 1.6 m/s

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1400	2400	2300	2700	3600 (1 m/s)	1300 (1 m/s)	Side opening 2H PL1100
2/180°			2450	2800			Side opening 2H PL1100
1/0°	1400	2400	2450	2700	3850 (1.6 m/s)	1400 (1.6 m/s)	Central opening 2H PL1100
2/180°			2450	2800			Central opening 2H PL1100

**ROPE** RATED LOAD • 2000kg / 26 people

**ROPING** • 2:1

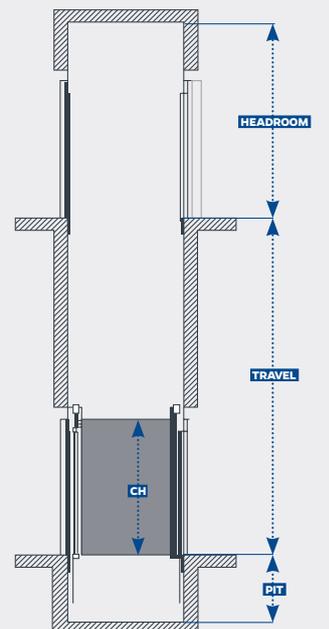
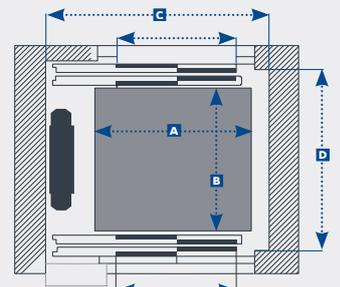
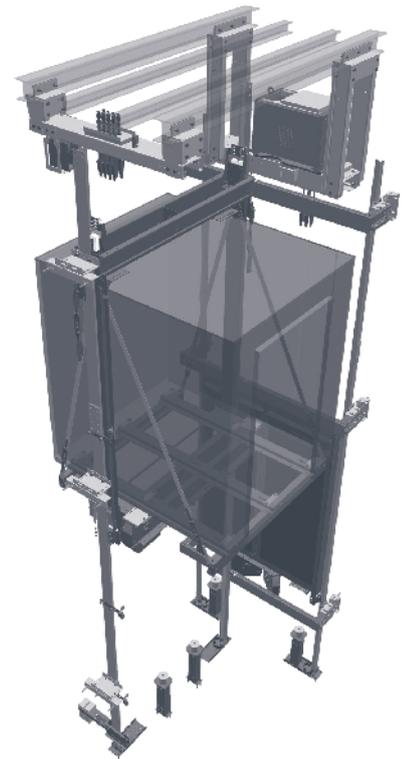
**MAXIMUM SPEED** • 1 m/s • 1.6 m/s

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1500	2700	2400	3000	3600 (1 m/s)	1300 (1 m/s)	Side opening 2H PL1300
2/180°			2450	3100			Side opening 2H PL1300
1/0°	1500	2700	2450	3000	3850 (1.6 m/s)	1400 (1.6 m/s)	Side opening 2H PL1100
2/180°			2450	3100			Side opening 2H PL1100

Standard shaft and car dimensions

\* According to the door and opening type.

\*\* Option for reduced headroom from 3450 mm for s = 1m per sec and 3700 mm for 1.6 m per sec with 2050 mm cab.



## Operational ranges (standard mechanics)

<b>Maximum travel</b>	Up to 60 m	
<b>Pit</b>	Minimum standard: 1300 mm (Ns = 1 m per sec) · 1400 mm (Ns = 1.6 m per sec)	
<b>Shaft</b>	<b>Headroom</b>	Standard minimum (2200 mm) car: 3600 mm (Ns = 1 m/s) 3850 mm (Ns = 1.6 m/s) Reduced minimum (2050 mm car): 3450 mm (Ns = 1 m/s) 3700 mm (Ns = 1.6 m/s)
	<b>Minimum width</b>	Car width + 900 mm
	<b>Minimum depth</b>	1400 mm
	<b>Maximum depth</b>	2700 mm
<b>Car</b>	<b>Minimum width</b>	1200 mm
	<b>Maximum width</b>	2500 mm
	<b>Standard height</b>	2200 mm (2050 mm and 2100 mm option)

**ROPIING • 2:1**      **MAXIMUM SPEED • 1 m/s • 1.6 m/s**

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1600	2500	2550	2800	3700	1400	Side 2H PL1400
2/180°				2900			Side 2H PL1400
1/0°			3000	2800	3900	1500	Centre 2H PL1400
2/180°				2900	(1.6 m/s)	(1.6 m/s)	Central 2H PL1400

**ROPIING • 2:1**      **MAXIMUM SPEED • 1 m/s • 1.6 m/s**

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1600	2600	2550	2900	3700	1400	Side 2H PL1400
2/180°				3000			Side 2H PL1400
1/0°			3000	2900	3900	1500	Centre 2H PL1400
2/180°				3000	(1.6 m/s)	(1.6 m/s)	Centre 2H PL1400

**ROPIING • 2:1**      **MAXIMUM SPEED • 1 m/s • 1.6 m/s**

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1600	2800	2550	3100	3700	1400	Side 2H PL1400
2/180°				3200			Side 2H PL1400
1/0°			3000	3100	3900	1500	Centre 2H PL1400
2/180°				3200	(1.6 m/s)	(1.6 m/s)	Centre 2H PL1400

**ROPIING • 2:1**      **MAXIMUM SPEED • 1 m/s • 1.6 m/s**

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1600	3000	2550	3300	3700	1400	Side 2H PL1400
2/180°				3400			Side 2H PL1400
1/0°			3000	3300	3900	1500	Centre 2H PL1400
2/180°				3400	(1.6 m/s)	(1.6 m/s)	Centre 2H PL1400

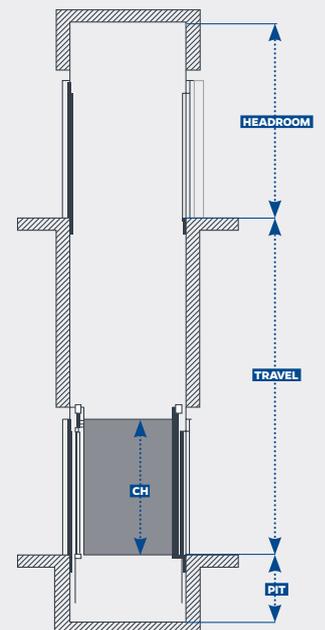
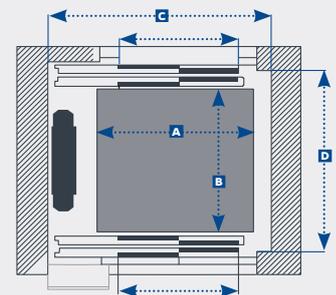
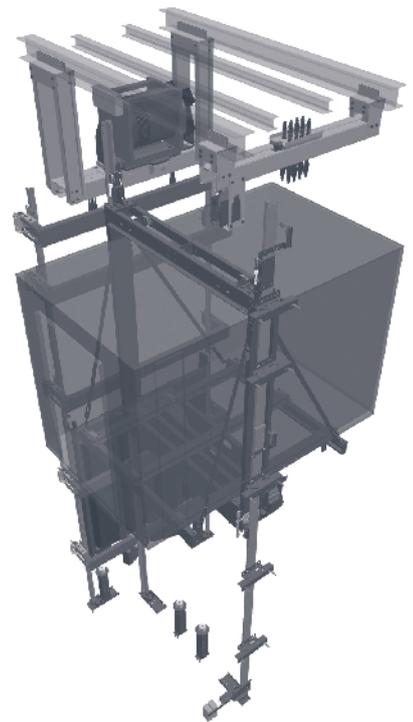
**ROPIING • 2:1**      **MAXIMUM SPEED • 1 m/s • 1.6 m/s**

Entrances Angle	Car		Shaft		Headroom** CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	1800	3000	2750	3300	3700	1400	Side 2H PL1500
2/180°				3400			Side 2H PL1500
1/0°			3000	3300	3900	1500	Centre 2H PL1400
2/180°				3400	(1.6 m/s)	(1.6 m/s)	Centre 2H PL1400

Standard shaft and car dimensions

\* According to the door and opening type.

\*\* Reduced headroom option of 3450 mm for s = 1 m per sec and 3700 mm for 1.6 m per sec with 2050 mm car



## Operational ranges (standard mechanics)

<b>Maximum travel</b>	Up to 30 m
<b>Pit</b>	Standard minimum: 1400 mm (Ns = 1 m/s) 1500 mm (Ns = 1.6 m/s)
<b>Shaft</b>	Standard minimum (2200 mm) car: 3700 mm (Ns = 1 m/s) 3900 mm (Ns = 1.6 m/s)
<b>Headroom</b>	Reduced minimum (2050 mm car): 3550 mm (Ns = 1 m/s) 3750 mm (Ns = 1.6 m/s)
<b>Minimum width</b>	Car width + 950 mm
<b>Minimum depth</b>	2000 mm
<b>Maximum depth</b>	3350 mm
<b>Minimum width</b>	1500 mm
<b>Maximum width</b>	2900 mm
<b>Standard height</b>	2200 mm (2050 mm and 2100 mm option)

RATED LOAD · 3000kg / 40 people

ROPING · 4:1

MAXIMUM SPEED · 1 m/s

Entrances Angle	Car		Shaft		Headroom CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	2000	2850	3250	3150	4200	1300	Central opening 4H PL1700
2/180°	2000	2800	3250	3200			Central opening 4H PL1700
1/0°	2200	2550	3450	2850			Central opening 4H PL1900
2/180°	2200	2500	3450	2900			Central opening 4H PL1900

RATED LOAD · 3500kg / 46 people

ROPING · 4:1

MAXIMUM SPEED · 1 m/s

Entrances Angle	Car		Shaft		Headroom CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	2200	2950	3450	3250	4200	1300	Central opening 4H PL1900
2/180°	2200	2900	3450	3300			Central opening 4H PL1900
1/0°	2400	2700	3650	3000			Central opening 4H PL2000
2/180°	2400	2650	3650	3050			Central opening 4H PL2000

RATED LOAD · 4000kg / 53 people

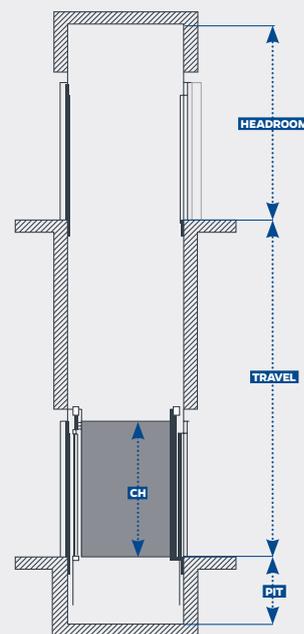
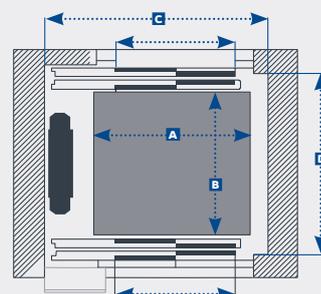
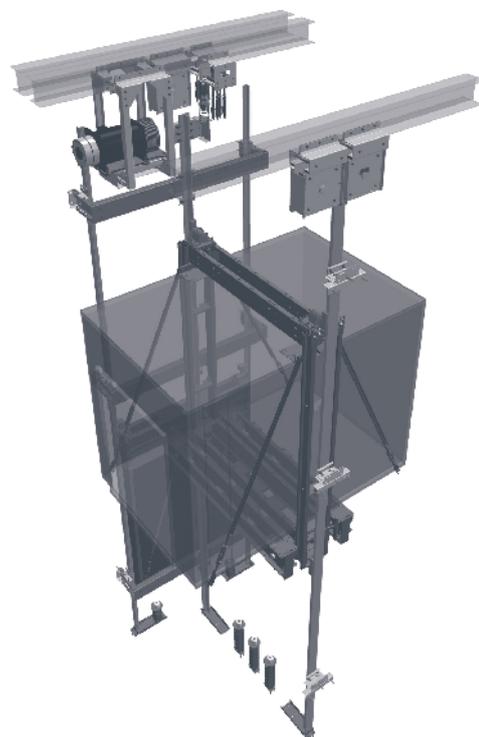
ROPING · 4:1

MAXIMUM SPEED · 1 m/s

Entrances Angle	Car		Shaft		Headroom CH 2200mm	Pit	Door type Maximum
	Width (A)	Depth (B)	Width (C)	Depth* (D)			
1/0°	2200	3300	3450	3600	4200	1300	Central opening 4H PL1900
2/180°	2200	3250	3450	3650			Central opening 4H PL1900
1/0°	2500	2900	3750	3200			Central opening 4H PL2100
2/180°	2500	2850	3750	3250			Central opening 4H PL2100

Standard shaft and car dimensions

\* According to the door and opening type.



## Operational ranges (standard mechanics)

<b>Maximum travel</b>	Up to 30 m
	<b>Pit</b> Standard minimum: 1300 mm
<b>Shaft</b>	<b>Headroom</b> Standard minimum (2200 mm) car: 4200 mm
	<b>Minimum width</b> Car width + 1250 mm
	<b>Minimum depth</b> 2600 mm
<b>Car</b>	<b>Maximum depth</b> 4000 mm
	<b>Minimum width</b> 1600 mm
	<b>Maximum width</b> 3000 mm
	<b>Standard height</b> 2200 mm

# Lift Cars

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## 210 Series

210 Series offers cars ideal for integration into any building project; we have sought a functional design based on a flat modular construction, a fresh and current palette of colours and high-quality in materials oriented to greater durability and resistance.



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## 220 Series

220 Series is expressly designed to carry large loads, of both passengers and goods. Of very robust construction, they are available in different finishes of great resistance and durability.



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## 310 Series

310 Series offers cars characterised by their high quality finishes, their great versatility and their marked clean lines, which allows them to integrate very easily in any decorative environment.



All our standard car series are synonymous with quality and careful manufacturing. We also produce special and customised cars.

For more detailed information, see our catalogue of cars.

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## 350 Series

Each 350 car is unique; customers can tailor it according to their tastes and preferences or depending on the aesthetic needs of the building combining individualised images or designs with a wide variety of colours for the walls.



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## 550 Series

550 Series offers luxurious and sophisticated cars combining elegant and cutting-edge materials with stainless steel in various finishes. A classic renovated for demanding environments, capable of transmitting a feeling of quality every detail.



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## 710 Series

When the goal is to leave a mark on the building, 710 Series becomes the ideal choice. Refined, imperishable, handmade, 710 Series enriches and adds character to any architectural environment.



# Altamira II control system: Silens Pro's® brain.

The **Altamira II** was conceived to control, with maximum precision, all the actions of any lift or group of lifts in the **Silens Pro**® range.

It offers all the advantages of a CAN BUS communication system, controlling groups of up to 8 lifts, 64 stops and speeds of 5 m per sec.

Altamira 2 is ready to solve, in a simple way, both the most common functions and the most complex and sophisticated, avoiding traditional electro-mechanical solutions.

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01

## Seamless integration for perfect performance

- **Altamira II** is fully integrated with the mechanisms of the entire **Silens Pro**® lift range. Therefore, in a **Silens Pro**® 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.

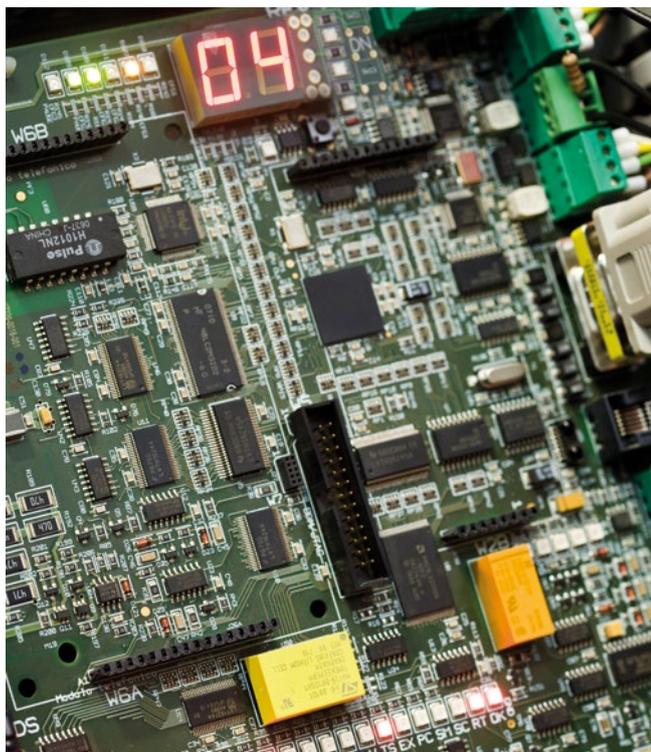
02

## 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 variator and machine operating patterns match the operation of **Altamira II** with the mechanics of every **Silens Pro**® (Top, Compact, Vanguard and Mega).
- 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.
- The control cabinet can be installed flexibly anywhere in the building up to a maximum distance of 20 metres from the drive motor\*.

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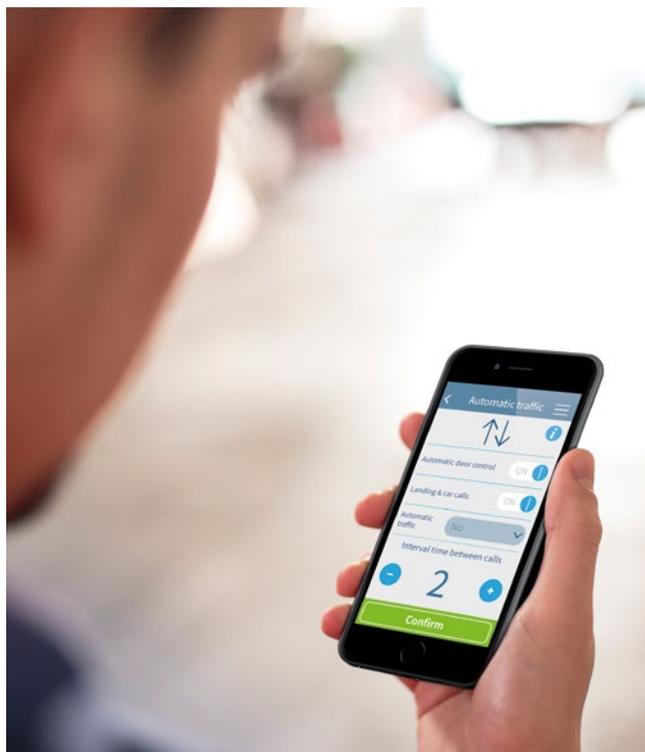
\*There are versions where the control cabinet can be located more than 20 m from the drive motor. In each case, please check with us.



03

### 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. **Our 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.



04

### 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.



## Operational and service functions

### ✓ Direct 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.

### ✓ Anti-creep device

When a lift normally requires loading and unloading of heavy objects, the use of anti-creep devices to prevent movement of the car during the loading or unloading.

### ✓ Return Mode

The cab returns to the return floor if it is below it or when there are no more orders or pending calls. You can set any floor as the return floor.

### ✓ Max. car registration

Maximum number of car registrations.  
Vandal proof function.

### ✓ Fire control

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.

### ✓ Fire fighting movement - EN81.72-

When this movement is completed, it can return to normal operation by means of reset or not. This movement complies with EN81.72. Available for Australian standard.

### ✓ Non-stop movement on floors with fire

This prevents the lift stopping at a floor where fire has been detected. If this signal is activated the lift stops at this floor, the car stays with the doors closed and it goes to another floor.

When this movement is completed, it can return to normal operation by means of reset or not.

### ✓ Out of service

This allows the lift to be left out of service, either at a particular stop or on the first floor where it can stop.

### ✓ Service Lift

This allows a person to remain in the car and control the doors. When a passenger enters a car and presses a floor button, the lift closes the doors when the rapid-release door button is pressed (otherwise it does not close).

### ✓ Preferential service

This makes it possible to prioritise an outside call by ignoring the list of orders and calls previously registered.

### ✓ Independent service

The lift only attends to orders that are registered from the car operating panel.

### ✓ Full load signal

The lift does not answer calls from outside if it is fully loaded.

### ✓ Car Light Timing

This allows you to set the time when the car light is turned off. It is deactivated once the doors are closed.

### ✓ Car fan

There is a timer to activate/deactivate the fan.

### ✓ Buoy

This allows detection of any water in the pit forcing the lift to stop on intermediate or higher floors.

### ✓ ECOSAVER®

A regenerative system that returns power to the grid when running in generator mode.

### ✓ Seismic - EN81.77 -

Operation according to EN81.77.

### ✓ Anti-surfing

This allows secure access to the car roof so the lift cannot be used for vandal purposes.

### ✓ MODBUS

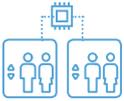
Sending information from the lift to a centralised system by MODBUS protocol.

### ✓ Stand-by

This allows the lift to reduce power consumption when not in use.

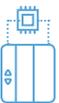
✓ Standard function

✓ Optional function



## Multiple movement functions

- ✓ **Multiple**  
A group of up to 8 lifts can be controlled.
- ✓ **Disabled movement**  
This allows operation of multiple system of lifts with different amount of floors.
- ✓ **Limit out of service**  
Parameter to configure the number of warnings detected in the doors before putting a lift out of service. When this happens, other lifts of the system will deal with the landing calls.
- ✓ **Multiplex input traffic**  
This establishes a time period in which there is a lot of traffic entering the building from a certain floor and tries to facilitate the management of the multiple system to reduce the times that users wait for an available car.
- ✓ **Multiple system output traffic**  
This identifies a time period in which high passenger traffic from a certain floor has been registered, in order to reduce waiting times



## Door operation functions

- ✓ **Fast closing of doors**  
This allows the time between stops to be shortened by means of a button in the car that can be activated if there are car orders.
- ✓ **Door hold**  
Key in the car operating panel that keeps the door open as if it were a photocell.
- ✓ **Nudge**  
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.



## Signage and display functions

- ✓ **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

- ✓ **Auto-rescue**  
Automatic rescue in electric lifts by means of UPS including the opening of doors when the designated floor has been reached. It has a pre-programmed destination floor.
- ✓ **Manual rescue**  
Manual rescue can be of two types, one by braking and displacement of the car according to the load balance or by means of high power UPS and direction pushbuttons that raise or lower the lift.
- ✓ **Emergency light cockpit button**  
In the event of a power cut, an emergency light is switched on in the car operating panel which provides illumination in compliance with EN81.20.
- ✓ **Emergency ceiling light in car**  
In the event of a power cut, an emergency light is switched on in the car ceiling which provides lighting in compliance with EN81.20 for 2 hours.

- ✓ **Standard function**
- ✓ **Optional function**



Axess 2 Ltd, Unit 7, Deanfield Drive, Link 59 Business Park, Clitheroe, BB7 1QJ  
Tel: 01200 40505, Email: [info@axess2.co.uk](mailto:info@axess2.co.uk), [www.axess2.co.uk](http://www.axess2.co.uk)

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