

Elevator Technology

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Elevator Technology

evolution® 100

Robust and reliable.



thyssenkrupp



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engineering.tomorrow.together.

A new benchmark

for reliability in

commercial buildings.

evolution 100: the solid and durable solution that guarantees a fast return on investment for your business.

evolution 100 is the ideal solution for functional commercial buildings with low- to mid-traffic volumes.

Offering heights of up to up to 21 stops, this elevator is based on proven technology and high-quality components, achieving outstanding ride comfort in this segment.

To ensure maximum architectural design flexibility, the size-optimized evolution 100 shaft enables the elevator to be installed in more compact spaces.

11 clean and neutral predefined cabin designs create quiet, durable environments that perfectly complement commercial settings like offices, retail, hotels and healthcare facilities.

#### Overview evolution 100

Elevator type	Machine room-less, optional machine room
Passengers	Up to 21 passengers
Load	450 - 1600 kg
Speed	1.0 / 1.6 m/s
Travel height	Up to 60 m
Number of stops	Up to 21 stops
Cabin	11 predefined cabins
Door types	Side-opening with 2 panels, central-opening with 2 or 4 panels
Door opening width	From 800 mm to 1300 mm
Door height	From 2000 mm to 2300 mm

the evolution family at a glance:

**evolution 100**  
**Robust and reliable.**  
The reliable and durable solution for low- to mid-traffic functional commercial buildings.

**evolution 200**  
**High-performance and flexible.**  
The solution for mid-traffic functional and comfort-class commercial buildings. Thanks to its flexible design and dimensions, it is also perfect for modernizing existing buildings.

**evolution 300**  
**Powerful and customizable.**  
The elevator that combines top-performance with tailor-made solutions for customers. Ideal for mid- to high-traffic commercial buildings with heavy-duty and exceptional design requirements.

# Contents

04 evolution 100 benefits at a glance

06 Product & design

06 Comfort & performance  
07 Efficiency, safety & regulations  
08 Design  
10 Features & options

11 Planning

12 Door installation options in shaft layout  
13 Shaft planning layout  
14 Technical product scope

18 Service

19 About us

# Quality, durability and optimal comfort in one elevator.

Right from the start: evolution 100 is the ideal choice for new buildings that demand maximum availability. Alongside evolution's many functional benefits, we support you with professional service and an excellent price-performance ratio to help you grow your business.



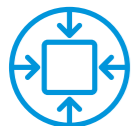
## A reliable decision for your business

Our high quality and engineering standards, proven components and over 20 years in the market with continuous improvements make evolution extremely durable and reliable – a good decision for your business.



## Maximizing the value of your investment

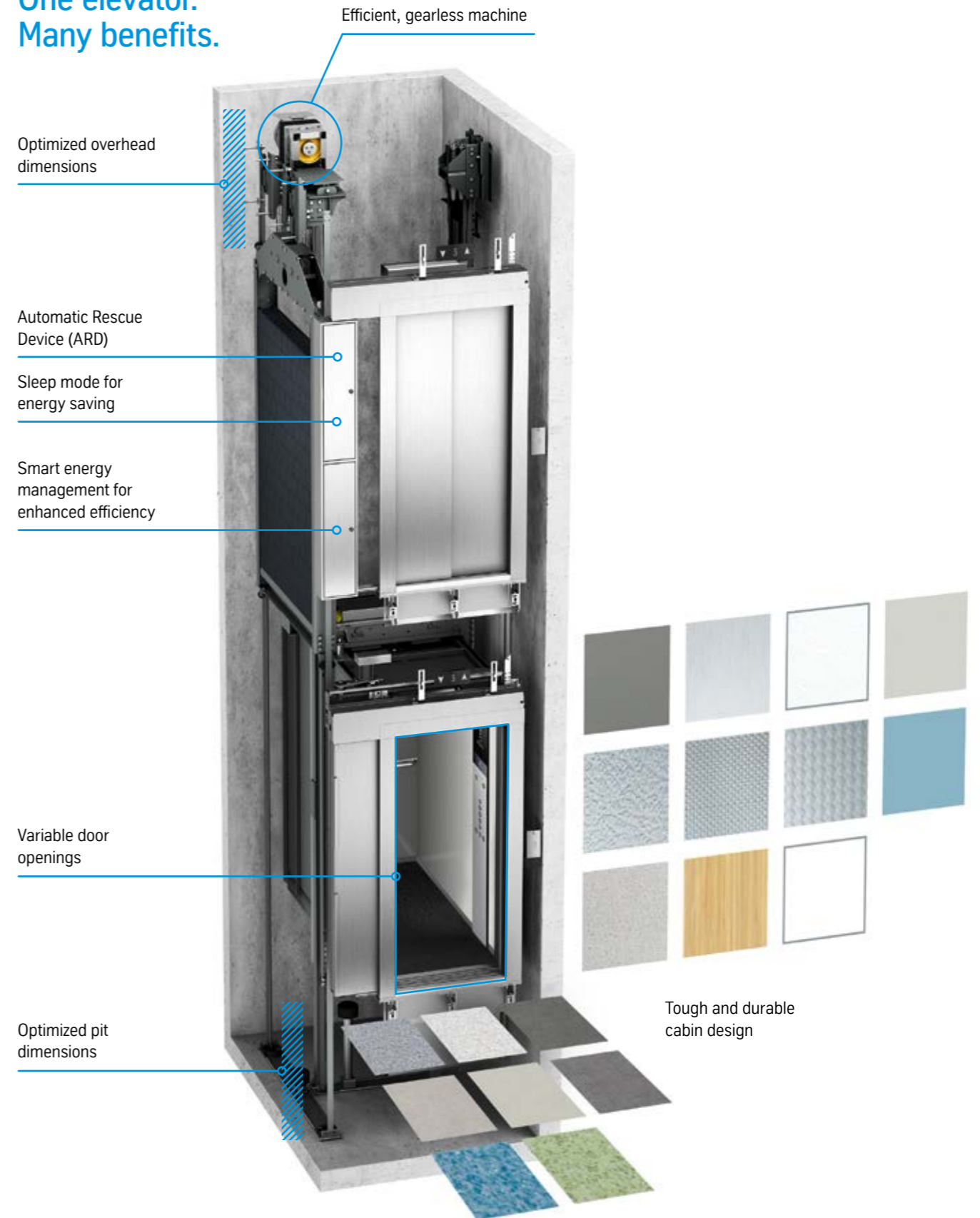
Excellent cost-performance ratio throughout the product lifecycle. Product durability, excellent energy efficiency and our outstanding service and maintenance help you increase productivity and keep operating costs to a minimum.



## Perfect dimensions

Maximum space efficiency and minimum footprint within the building thanks to size-optimized overhead and pit dimensions, together with a compact cabin.

## One elevator. Many benefits.



# Comfort.

Enter your comfort zone.



- **Soft acceleration and gentle braking:** your passengers will experience a smooth and safe ride.
- **Silent and low-vibration:** thanks to high-quality materials and excellent sound insulation, evolution 100 operates silently and with low vibration.
- **Landing accuracy:** enables accurate leveling. Landing accuracy +/- 1 mm ensures safe and comfortable access for passengers.

# Performance.

Proven performance for peace of mind.



**Gearless machine, designed in Germany:** all the power you need for your low- to mid-duty requirements. High efficiency, low energy consumption, no lubricants.

Up to **91 %** energy efficiency factor of the machine (depends on the selected machine)



**Proven components:** the evolution product family has been successful in the market for over 20 years.

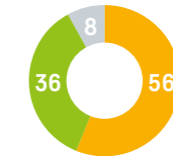
# Efficiency.

Solutions for low energy consumption.

Sustainability is part of our corporate DNA. It involves the holistic improvement of our products and processes to help you reduce the environmental footprint of your buildings and qualify for LEED® and BREEAM® certification by incorporating green features in our elevators.

**evolution** Measurements taken on a standard evolution configuration with sleep mode achieve the highest energy-efficiency rating class A in use category 1, according to ISO 25745-2. Certification takes into account where the elevator is installed and energy demand during operation as well as in standby mode.

Elevator with regenerative drive option.



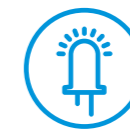
**Product lifecycle assessment (LCA):** through continuous improvement, we minimize the environmental impacts of our solutions.

Based on the carbon footprint of an ISO 14044 compliant LCA of a 1000 kg elevator at 1m/s with 5 stops, 25 years lifetime, using sleep- and eco/high speed mode options, with use category 4 according to ISO 25745-2.



**Standby mode:** cabin lighting comes with automatic switch off as standard. **Sleep mode** (optional): the electronic components are turned off when the elevator is in sleep mode and instantly activated when the elevator is called.

Up to **86 %** energy saving potential through energy management during non-operation



**LED lighting** is included as standard in all lighting devices. LED lighting can last 10 times longer and is up to 80% more energy efficient than halogen lighting.



**Optional eco/high speed mode:** to save energy, intelligent energy management automatically adjusts elevator speed and door opening times according to traffic volume.



**Gearless machine, designed in Germany:** high performance, high efficiency, low energy consumption and no contaminant lubricants.



**Regenerative drive:** the optional regenerative drive is a smart system that generates electricity when the car has a full load going down and is empty going up. The power generated in both situations is then captured and fed into the grid.

# Safety & regulations.

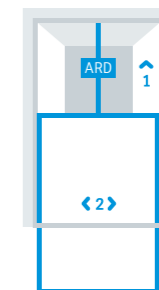
Putting safety first by meeting all relevant standards.



**Elevators are the safest means of transport:** all safety elements are manufactured to meet all relevant industry standards and regulations, including our company's own strict internal Safety, Health and Environment standards, as well as meeting ISO 9001 and 14001.



**Stay connected 24/7:** whenever you need it, the communication system is there for you, keeping you connected with our 24hr call center.



**Emergency evacuation** (standard): in the event of power failure, the Automatic Rescue Device (ARD) will safely take you to the next floor (load dependent) <1> and open the doors to allow passengers to exit the cabin <2>.

# Design.

The predefined cabins of the C design line combine timeless, clean and functional styling with tough materials to perfectly match the requirements of functional commercial buildings.

### Handrail



Stainless steel

The strong stainless steel handrail with satin silver finish can be mounted on rear and side walls. Straight fixing.

### Panels

Choose between 4 robust and easy-to-clean laminates, 4 stainless steel laminates or 3 powder-coated variants.

### Push-buttons

Standard round push-buttons in stainless steel. These include Braille lettering, main floor green frame and round white confirmation call. Push-button face plate in brushed stainless steel.



LOP 50



DB push-button with St. Steel Satin Silver face plate



Push button with St. Steel Satin Black face plate



LIP 50



LDIP 50

### Floors



Tissé Grey Fresh Blue Checker Plate

Hard-wearing checkerplate or easy-to-clean vinyls - the floors of the C design line have been designed for longevity. You also have the option to supply your own flooring (3.5 / 25 / 40 mm recess).

### Mirrors

A large mirror in 5 mm tempered safety glass is included on the rear wall, or on the side wall for elevators with a double entrance.

### Ceilings

Our ceilings perfectly complement the colors and materials of the elevator walls. Choose from 4 lighting styles with direct or indirect lighting to create the desired atmosphere in your car.

### Landing Indicator Panels (LIP)

The LIP surface installation module is set in black safety glass.

### Landing Operating Panels (LOP)

Contemporary styling for landing signaling in black safety glass or stainless steel.

### Landing Direction Indicator Panels (LDIP)

Positioned on the door jamb or side wall.

### Car Operating Panels (COP)



Edge high

Edge

IL Variable

evolution 100 offers 3 different car operating panels with robust stainless steel finishing.

Colors, options and specifications are subject to change. All cabin decor options illustrated in this brochure are representative only. The samples shown may vary from the original in color and material. Patterned samples not to scale. Consult your thyssenkrupp Elevator sales representative about our cabin designer tool and samples.

# C design line.



C04



C07



C06



C03

To discover the full design collection, including all cabin designs, walls, flooring, ceiling and signaling options, please see our dedicated design brochure.

Discover more variants of the C design line in the cabin designer tool.



c-design-evolution.thyssenkrupp-elevator.com

# Selected features & options.

## Comfort

### Accessibility

Door open/close and alarm push-button	•
Big push-buttons with Braille lettering	•
Round green frame in main floor push-button	•
Acoustic request acknowledgement in the operating panel	•
Roller guide shoes	◦

### Access control

Cancellation calls by double click in COP	◦
Key switch in COP/LOP for access/functions	◦
Preference/Independent service of COP	◦
Out of service LOP	◦
VIP function	◦
Prepared for card reader LOP/COP	◦
COP for disabled persons	◦

### Others

Car ventilation fan	◦
CCTV multimedia travelling cable	◦
Cabin noise reduction kit	◦

## Performance

Parking level in main landing floor	•
Group control system (up to 3 elevators)	◦
Building management system (BMS)	◦
Extended Building Management System (BMS)	◦
Machine 180 starts/hour (1 m/s)	•
Pre-opening of doors	◦

### Layout

Flexible door placement	◦
-------------------------	---

## Efficiency

Energy-saving LED lighting	•
Cabin lighting stand-by	•
Sleep mode	◦
Regenerative drive	◦
Highspeed/Eco mode	•
Trip Counter/Service metre	•

## Safety & regulations

Prevention of empty car runs	•
Light curtain protection	•
Light curtain protection 3D	◦
Emergency lighting in cabin 1h	•
Automatic evacuation to next landing	•
Automatic evacuation to any landing	◦
Two-/three-way intercom	◦
Halogen-free shaft wiring (except for the motor and travelling cable)	◦
Safety gear on counterweight	◦
Water pit sensor	◦
Doors fire rating EI60 / EI120	◦
EN 81-20/50	•
EN 81-21 Existing buildings	•
EN 81-28 Emergency call system	•
EN 81-70	◦
EN 81-73, Fire evacuation	◦
EN 81-77, Category 0, 1	◦
Induction loop for hearing-impaired passengers	◦

## Design

Pre-designed cabins*	•
Preparation for customer-supplied flooring < 25 mm	•
Stainless steel COP/LOP	•
Glass faceplate for COP/LOP	◦
LCD Display	◦
LOP and LIP surface-mounted on door frame or wall	◦
Different push buttons available	◦
Flush COP available	◦
Selectable controller cabinet position	◦
Glass doors	◦
Glass rear wall cabin	◦

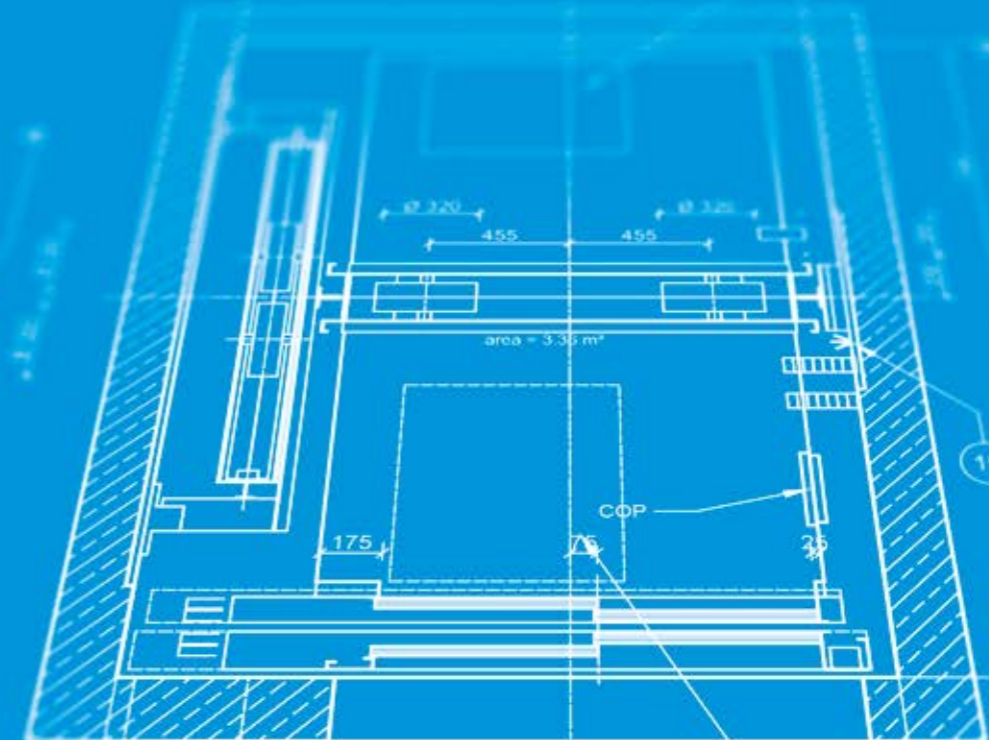
◦ Optional product feature • Standard product feature

\* Find out about the different features in our pre-designed cabins.

To discover the other options available for evolution 100, please contact your local thyssenkrupp Elevator sales representative. The details quoted in this sheet can only be viewed as binding when confirmed expressly in writing.

# Success begins with a great plan.

- We support you from the first idea through to completed installation.
- Our highly experienced commercial team will advise you on the best mobility solutions to meet your requirements.
- Easy delivery and skilled installation.



## evolution 100 ePlanning tool

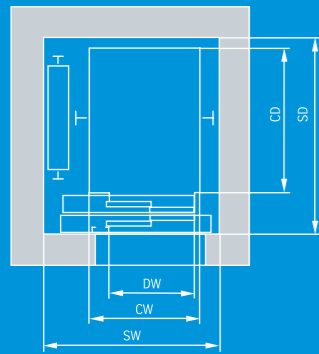
Make the most of your building space and find the optimal dimensions for your new evolution 100 cabin. All you need is either the shaft or cabin measurements. For new installations, you can simply find the smallest possible shaft dimensions for a specific cabin size.



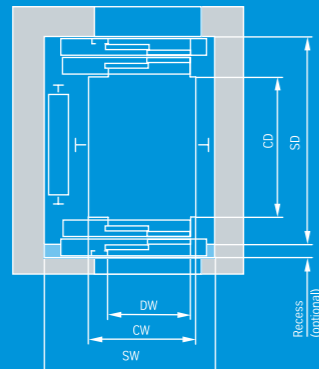
# Door installation options in shaft layout.

## Shaft layout with side-opening door L2

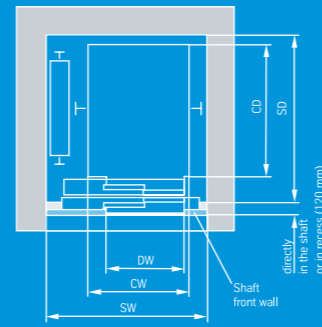
Single entrance



Double entrance with recess

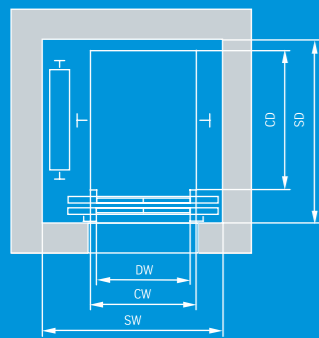


Single entrance, shaft front wall with gap cover

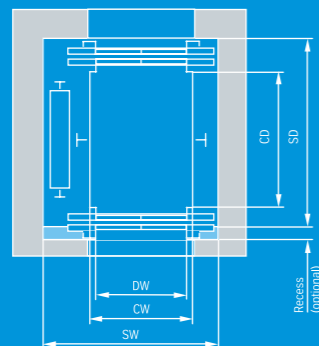


## Shaft layout with central-opening door C2

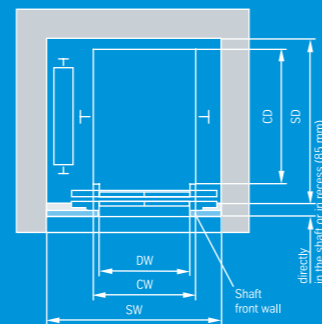
Single entrance



Double entrance with recess



Single entrance, shaft front wall with gap cover



# Shaft planning layout.

### Technical data



Shaft head dimensions

Speed	Shaft head [in mm]	Rated load (in kg)	Car height (in mm) <sup>1</sup>
1.0 m/s	min. 3,300	≤ 1,000	2,100
1.0 m/s	min. 3,300	≥ 1,000-1,600	2,100
1.6 m/s	min. 3,500	≤ 1,000	2,100
1.6 m/s	min. 3,500	≥ 1,000-1,600	2,100

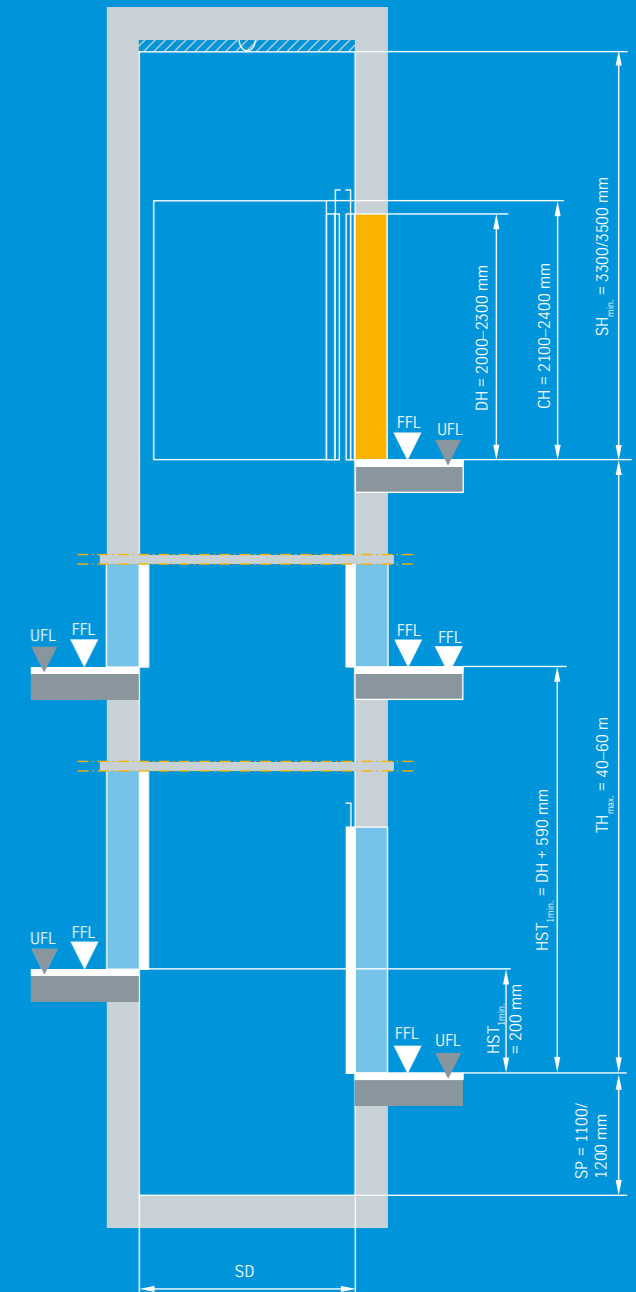


Shaft pit dimensions

Speed	Shaft pit [in mm]	Rated load (in kg)
1.0 m/s	min. 1,100	≤ 1,000
1.6 m/s	min. 1,200	≤ 1,000
1.6 m/s	min. 1,150	≥ 1,000-1,600
1.6 m/s	min. 1,250	≥ 1,000-1,600

### Key:

- CW: car width
- CD: car depth
- CH: car height
- SW: shaft width
- SD: shaft depth
- SH: shaft head
- SP: shaft pit
- DW: door width
- DH: door height
- FFL: finished floor level
- UFL: unfinished floor level
- TH: travel height
- HST: min. height between floors



<sup>1</sup> An increase in car height always results in an equal increase of the shaft head (e.g. CH+100 mm leads to SH+100 mm)

# Technical product scope.

System		Cabin		Door		Shaft																								
Rated load	Number of passengers	Speed [m/s]	Max travel height [m]	Car width x car depth [mm]	Car height [mm]	Type of entrance	Door type	Door width [mm]	Door height [mm]	Shaft width [mm]	Shaft depth [mm] - door in shaft	Shaft depth [mm] - door in recess	Shaft depth [mm] - door in deep recess	Shaft pit [mm]	Shaft head [mm] for car height = 2100 mm <sup>2)</sup>															
450	6	1,0	40	1000x1250	2100-2400	S/D	L2/C2/C4	800-900	2000-2300																					
										2100	S	L2	800	2000	1510	1650	1595	1550	1100	3300										
										2100	D	L2	800	2000	1510	1890	1780	1690	1100	3300										
										2100	S	C2	800	2000	1760	1590	1570	1530	1100	3300										
										2100	D	C2	800	2000	1760	1770	1730	1650	1100	3300										
										1,6	60			1517 (L2)/1760 (C2)	)	)	)	1200	3500											
										630	8	1,0	40	1100x1400	2100-2400	S/D	L2/C2/C4	800-1000	2000-2300											
																				2100	S	L2	900	2000	1610	1800	1745	1700	1100	3300
																				2100	D	L2	900	2000	1610	2040	1930	1840	1100	3300
																				2100	S	C2	900	2000	1960	1740	1720	1680	1100	3300
2100	D	C2	900	2000	1960	1920	1880	1800	1100											3300										
1,6	60			1617 (L2)/1960 (C2)	)	)	)	1200	3500																					
675	9	1,0	40	1200x1400	2100-2400	S/D	L2/C2/C4	800-1100	2000-2300																					
																				2100	S	L2	900	2000	1710	1800	1745	1700	1100	3300
																				2100	D	L2	900	2000	1710	2040	1930	1840	1100	3300
																				2100	S	C2	900	2000	1960	1740	1720	1680	1100	3300
										2100	D	C2	900	2000	1960	1920	1880	1800	1100	3300										
										1,6	60			1717 (L2)/1960 (C2)	)	)	)	1200	3500											
										800	10	1,0	40	1350x1400	2100-2400	S/D	L2/C2/C4	800-1200	2000-2300											
																				2100	S	L2	900	2000	1860	1800	1745	1700	1100	3300
																				2100	D	L2	900	2000	1860	2040	1930	1840	1100	3300
																				2100	S	C2	900	2000	2015	1740	1720	1680	1100	3300
2100	D	C2	900	2000	2015	1920	1880	1800	1100											3300										
1,6	60			1867 (L2)/2022 (C2)	)	)	)	1200	3500																					

System		Cabin		Door		Shaft																								
Rated load	Number of passengers	Speed [m/s]	Max Travel height [m]	Car width x car depth [mm]	Car height [mm]	Type of entrance	Door type	Door width [mm]	Door height [mm]	Shaft width [mm]	Shaft depth [mm] - door in shaft	Shaft depth [mm] - door in recess	Shaft depth [mm] - door in deep recess	Shaft pit [mm]	Shaft head [mm] for car height = 2100 mm <sup>2)</sup>															
1000	13	1,0	40	1100x2100	2100-2400	S/D	L2/C2/C4	800-1000	2000-2300																					
										2100	S	L2	900	2000	1610	2500	2445	2400	1100	3300										
										2100	D	L2	900	2000	1610	2740	2630	2540	1100	3300										
										2100	S	C2	900	2000	1960	2440	2420	2380	1100	3300										
										2100	D	C2	900	2000	1960	2620	2580	2500	1100	3300										
										1,6	60			1617 (L2)/1960 (C2)	)	)	)	1200	3500											
										1000	13	1,0	40	1400x1600	2100-2400	S/D	L2/C2/C4	800-1300	2000-2300											
																				2100	S	L2	1000	2000	1910	2000	1945	1900	1100	3300
																				2100	D	L2	1000	2000	1910	2240	2130	2040	1100	3300
																				2100	S	C2	1000	2000	2160	1940	1920	1880	1100	3300
2100	D	C2	1000	2000	2160	2120	2080	2000	1100											3300										
1,6	60			1917 (L2)/2160 (C2)	)	)	)	1200	3500																					
1000	13	1,0	40	1600x1400	2100-2400	S/D	L2/C2/C4	800-1300	2000-2300																					
																				2100	S	L2	1000	2000	2110	1800	1745	1700	1100	3300
																				2100	D	L2	1000	2000	2110	2040	1930	1840	1100	3300
																				2100	S	C2	1000	2000	2240	1740	1720	1680	1100	3300
										2100	D	C2	1000	2000	2240	1920	1880	1800	1100	3300										
										1,6	60			2117 (L2)/2247 (C2)	)	)	)	1200	3500											
										1000	13	1,0	40	2100x1100	2100-2400	S/D	L2/C2/C4	800-1300	2000-2300											
																				2100	S	L2	1300	2000	2610	1600	1545	1500	1150	3300
																				2100	D	L2	1300	2000	2610	1740	1630	1540	1150	3300
																				2100	S	C2	1300	2000	2790	1540	1520	1480	1150	3300
2100	D	C2	1300	2000	2790	1620	1580	1500	1150											3300										
1,6	60			2617 (L2)/2797 (C2)	)	)	)	1250	3500																					



System		Cabin		Door		Shaft																		
Rated load	Number of passengers	Speed [m/s]	Max Travelheight [m]	Car width x car depth [mm]	Car height [mm]	Type of entrance	Door type	Door width [mm]	Door height [mm]	Shaft width [mm]	Shaft depth [mm] - door in shaft	Shaft depth [mm] - door in recess	Shaft depth [mm] - door in deep recess	Shaft pit [mm]	Shaft head [mm] for car height = 2100 mm <sup>2)</sup>									
1275	17	1,0	40	1200x2250	2100-2400	S/D	L2/C2/C4	800-1100	2000-2300	2100	S	L2	1000	2000	1773	2650	2595	2550	1150	3300				
											D	L2	1000	2000	1773	2890	2780	2690	1150	3300				
											S	C2	1000	2000	2160	2590	2570	2530	1150	3300				
											D	C2	1000	2000	2160	2770	2730	2650	1150	3300				
																				1780 (L2)/ 2160 (C2)	)	)	)	1250
		1,6	60										1780 (L2)/ 2160 (C2)	)	)	)	1250	3500						
				1275	17	1,0	40	1200x2300	2100-2400	S/D	L2/C2/C4	800-1100	2000-2300	2100	S	L2	1000	2000	1773	2700	2645	2600	1150	3300
															D	L2	1000	2000	1773	2940	2830	2740	1150	3300
															S	C2	1000	2000	2160	2640	2620	2580	1150	3300
															D	C2	1000	2000	2160	2820	2780	2700	1150	3300
															1780 (L2)/ 2160 (C2)	)	)	)	1250	3500				
1,6	60										1780 (L2)/ 2160 (C2)	)	)	)	1250	3500								
		1275	17			1,0	40	2000x1400	2100-2400	S/D	L2/C2/C4	800-1300	2000-2300	2100	S	L2	1300	2000	2540	1800	1745	1700	1150	3300
															D	L2	1300	2000	2540	2040	1930	1840	1150	3300
															S	C2	1300	2000	2760	1740	1720	1680	1150	3300
															D	C2	1300	2000	2760	1920	1880	1800	1150	3300
															2554 (L2)/ 2760 (C2)	)	)	)	1250	3500				
1,6	60												2554 (L2)/ 2760 (C2)	)	)	)	1250	3500						
				1600	21	1,0	40	1400x2400	2100-2400	S/D	L2/C2/C4	800-1300	2000-2300	2100	S	L2	1100	2000	1940	2800	2745	2700	1150	3300
															D	L2	1100	2000	1940	3040	2930	2840	1150	3300
															S	C2	1100	2000	2360	2740	2720	2680	1150	3300
															D	C2	1100	2000	2360	2920	2880	2800	1150	3300
															1954 (L2)/ 2360 (C2)	)	)	)	1250	3500				
1,6	60										1954 (L2)/ 2360 (C2)	)	)	)	1250	3500								

System		Cabin		Door		Shaft																		
Rated load	Number of passengers	Speed [m/s]	Max Travelheight [m]	Car width x car depth [mm]	Car height [mm]	Type of entrance	Door type	Door width [mm]	Door height [mm]	Shaft width [mm]	Shaft depth [mm] - door in shaft	Shaft depth [mm] - door in recess	Shaft depth [mm] - door in deep recess	Shaft pit [mm]	Shaft head [mm] for car height = 2100 mm <sup>2)</sup>									
1600	21	1,0	40	1420x2400	2100-2400	S/D	L2/C2/C4	800-1300	2000-2300	2100	S	L2	1100	2000	1940	2800	2745	2700	1150	3300				
											D	L2	1100	2000	1940	3040	2930	2840	1150	3300				
											S	C2	1100	2000	2360	2740	2720	2680	1150	3300				
											D	C2	1100	2000	2360	2920	2880	2800	1150	3300				
																				1954 (L2)/ 2360 (C2)	)	)	)	1250
		1,6	60										1954 (L2)/ 2360 (C2)	)	)	)	1250	3500						
				1600	21	1,0	40	1950x1750	2100-2400	S/D	L2/C2/C4	800-1300	2000-2300	2100	S	L2	1300	2000	2490	2150	2095	2050	1150	3300
															D	L2	1300	2000	2490	2390	2280	2190	1150	3300
															S	C2	1300	2000	2760	2090	2070	2030	1150	3300
															D	C2	1300	2000	2760	2270	2230	2150	1150	3300
															2504 (L2)/ 2760 (C2)	)	)	)	1250	3500				
1,6	60										2504 (L2)/ 2760 (C2)	)	)	)	1250	3500								
		1600	21			1,0	40	2100x1600	2100-2400	S/D	L2/C2/C4	800-1300	2000-2300	2100	S	L2	1300	2000	2640	2000	1945	1900	1150	3300
															D	L2	1300	2000	2640	2240	2130	2040	1150	3300
															S	C2	1300	2000	2800	1940	1920	1880	1150	3300
															D	C2	1300	2000	2800	2120	2080	2000	1150	3300
															2654 (L2)/ 2807 (C2)	)	)	)	1250	3500				
1,6	60												2654 (L2)/ 2807 (C2)	)	)	)	1250	3500						

<sup>1)</sup> The shaft depth does not depend on the speed: at v = 1.6 m/s, the corresponding values as specified in the lines with v = 1.0 m/s apply.

<sup>2)</sup> Headroom height with KH = 2100 mm and telescopic railing on the car roof, otherwise +400 mm.

L2 - double-panel telescopic opening sliding door (left or right opening), C2 - double-panel central-opening sliding door, C4 - four-panel central-opening sliding door.

Recess depths: door type L2: recess = 55 mm, deep recess = 100 mm; door type C2: recess = 20 mm, deep recess = 60 mm; door type C4: recess = 55 mm.

Type of entrance: S - single entrance, D - dual entrance (180°).

Shaft tolerance: ± 25 mm, shaft tolerance in the area of the headroom / shaft pit - 0 mm/ + 25 mm.

Depending on the equipment, the shaft dimensions can deviate from the specified values (for example special position of the car operating panel).

Examples of shaft dimensions for the door types L2 and C2 are specified with common door widths. For door dimensions deviating from this, the corresponding shaft dimensions are available on request.



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