SwiftRise
Vertical intelligence

Machine-roomless lifts

Speed – 1.2 to 1.75 m/s Loads - 450 to 1.275kg

Vertical **intelligence**.

Machine-roomless lifts
• From 450 to 1.275kg

SwiftRise® marks the beginning of a new generation in vertical mobility.

Faster. More powerful. Smarter.

Up to **1275 kg load** and a **revolutionary 1.75 m/s speed in 1m/s lift shafts**.

SwiftRise® redefines the standard without compromising on space. Its advanced design occupies the same usable space **as a conventional 1 m/s lift** providing superior speed and performance, transforming user's experience and optimise vertical traffic management.

SwiftRise is not only a cutting-edge lift.

It is active technology that learns, adapts and evolves with you.

Always updated. Always efficient.

Faster. Without taking up more space.

SwiftRise® reaches a speed of 1.75 m/s, but it still occupies the same standard shaft as a conventional 1 m/s speed lift.

More agility. Less wait.
No modification of the building's free space.

Technology that makes a difference

- Energy-efficient and ultra-quiet **gearless traction**.
- **Direct Approach System**.
- **SIL 3 PESSRAL** programmable devices.
- **Machine-learning** technology.
- Exclusive **Varispeed®** technology:
  Maximum speed and energy efficiency.

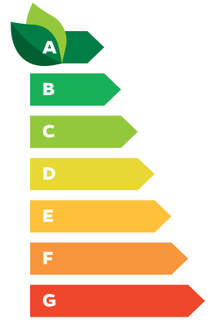
Designed to adapt.
Created to evolve.

SwiftRise® provides a new level of customisation and flexibility.

Finishes, push buttons, doors, signalisation and displays can be harmoniously adapted to technical, functional and aesthetic requirements of each project.

A solution that meets today's needs and is ready for future challenges.

SwiftRise®, a machine-roomless lift combining gearless traction, embedded intelligence and an efficiency level designed for modern architecture.



Superb **sustainability** and **safety**.

- Class A energy efficiency.
- Efficient and environmentally friendly gearless traction.
- LED lighting and stand-by mode.
- Manufactured according to ISO 14001.
- SIL 3 safety devices.
- State of the art PESSRAL devices.

Precise structural design.

SwiftRise® incorporates solid, compact and efficient engineering that maximises reliability and comfort on every trip.

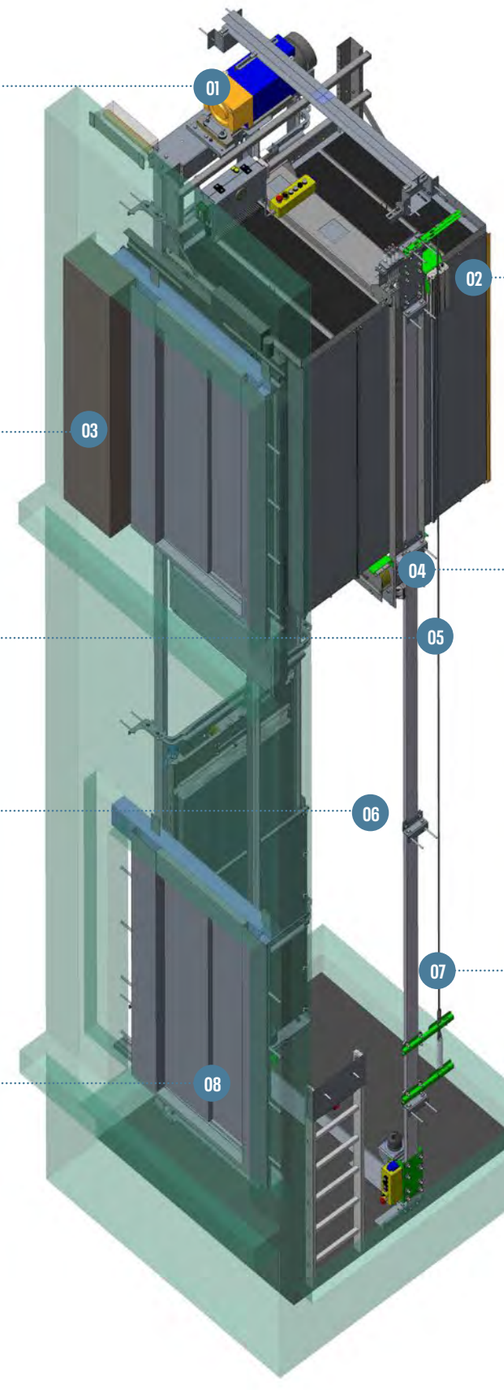
Smart integration for full control

- PESSRAL system providing absolute positioning, integrated sensors and advanced programmable logic.

- In-shaft safety devices integrated in one single module that simplifies and reduces installation times.

- Compatible with all European safety standards:

o EN81-20/50
o EN81-70
o EN81-28
o AS1735,12
o BCA 2022
o EN81.71 Cat 1.
o EN81-73



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

New, reduced **control cabinet**.

Absolute positioning of the car in the lift shaft.

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

Automatic fire-rated doors, side or central opening are safe and realiable. Available in brushed stainless steel or epoxy finish.

State-of-the-art **electronic overspeed governor.**

Traditional overspeed governor and safety gear available as extra.

The robust **conventional under-slung sling arrangement** allows for excellent ride quality. A modern **electronically triggered safety gear** replaces the traditional linkage bar mechanism whilst providing a lower tripping speed.

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

The mechanics mentioned above correspond to a SwiftRise® 450 and 630kg

Smart performance.
Optimised speed.

SwiftRise® incorporates advanced control technology that automatically adjusts travel speed according to the distance to destination and the conditions of use.
This shortens travel time without extra space requirements or compromising comfort.

The exclusive Varispeed® technology:
Varispeed® dynamically adjusts the elevator's speed up to 1.75 m/s and optimised every operating cycle.
With this system, SwiftRise® is the fastest and most efficient elevator in its category, whilst always maintaining the same structural shaft.

LIFT
WITH VARISPEED®

+75%
HIGHER TRAVEL SPEED

-5%
OPTIMISED ENERGY CONSUMPTION*

0
SHAFT CONDITIONING

+
SMOOTHER TRAVELLING EXPERIENCE

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

Faster.
Shorter waiting and traveling times.

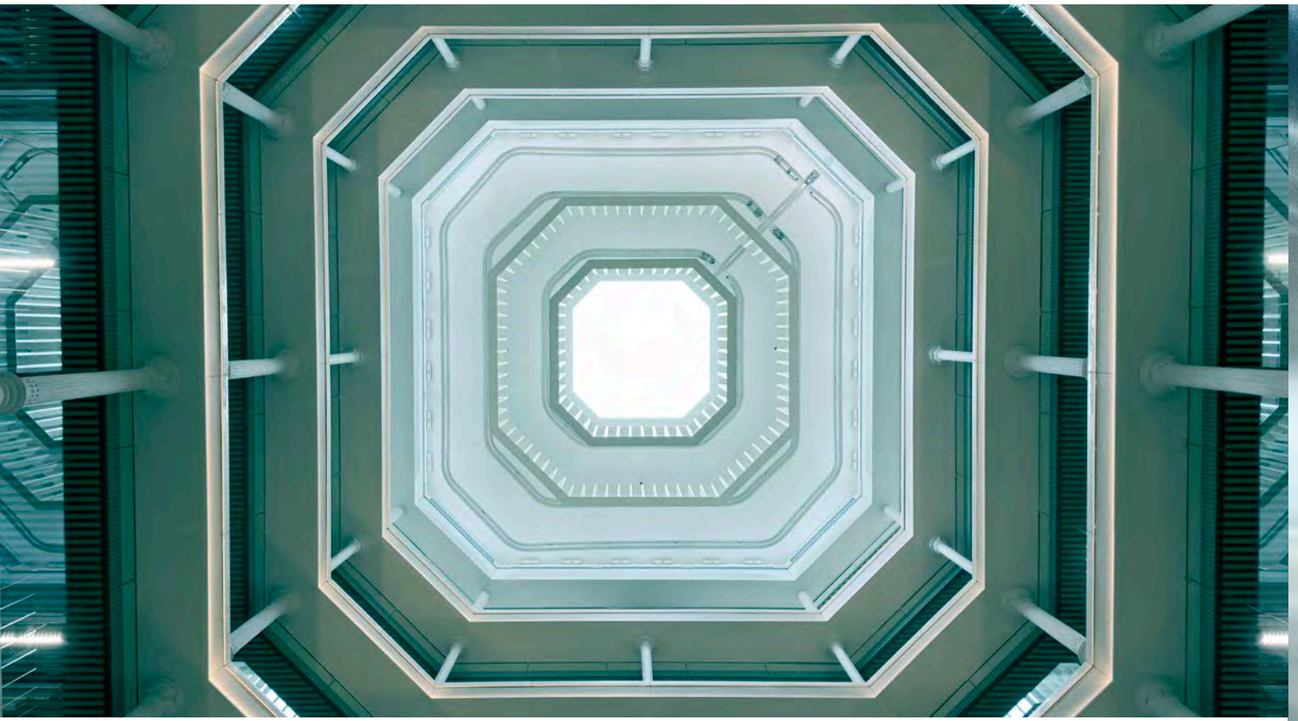
Varispeed®, the exclusive **SwiftRise's®** technology, dynamically adapts travel speed according to the distance to destination and conditions of use, thus optimised traveling times without increasing energy consumption or requiring more installation space.

Travel speed increased by 75%
Varispeed® technology increases speed in 1 m/s shafts with no shaft modifications and reduces travel time up to 40%.

Power consumption optimised up to 5%.
Dynamic speed control improves efficiency and reduces energy consumption up to 5% compared to a conventional gearless lift.

Zero remodelling and no additional work
The performance improvement of the lift is incorporated into the same building shaft. No refurbishment required to gain more space.

+ Comfort. Smoother and more precise experience
Smoother comfort profiles. Direct aproach to floors. Optimal car-to-landing stopping accuracy. Less waiting time.



Fully adapted to the space.
Available space does not limit us, it inspires us.

SwiftRise® can be installed in shafts of any width. A barrier free technology.

Instead of fixed standards, **SwiftRise**® offers complete freedom.

Since it can be structurally adapted every 10 mm, **SwiftRise**® opens possibilities for every shaft and turns every lift into a unique solution.

Its clever mechanical design gives the possibility of:

- Taking the most of each available centimetre, even in existing buildings.
- Avoiding expensive structural or architectural refurbishments.
- Designing customised lifts for special and unique projects or for projects that are outside the ordinary technical requirements.

Advanced technical options and enhanced safety.
Technology adaptable to each project.

- **Equipped with traction machines** from a choice of several **leading brands**.
- **Fermator** and **Wittur doors available**.
- **Special car** decorations available **outside the standard catalogue**.
- The only lift that offers **1.75 m/s speed with no additional space required**.

Travel comfort at the highest level.

Thanks to advanced technology and meticulous engineering design, **SwiftRise®** offers outstanding performance in terms of travel comfort and smoothness.

ISO A95 values that go beyond the most rigorous standards and guarantee a remarkably comfortable and stable travel experience.

Passenger comfort as a priority.

Smooth acceleration and braking:
Total stability inside the lift car in the absence of sudden movements.

Vibration optimised:
No oscillations, which guarantees a more pleasant ride.

State-of-the-art system:
Conveys a sensation of continuous sliding without interruptions.

	Horizontal vibrations	Vertical vibrations
S = 1,2 m/s	3 ± 3 mg	10 ± 3 mg
S = 1,75 m/s	5 ± 3 mg	12 ± 3 mg

***ISO A95 values measured in standard real lift facilities with guide shoes. Values might vary depending on the quality of the shaft and the installation methods.**

A smart way to move.

SwiftRise® is a smart, connected lift with capacity to learn and improve user´s experience throughout all its service life.

Remote maintenance and telemetry available through connectivity thanks to **IMEM´s Smart City Technology**.

Equipped with **PESSRAL*** programmable devices that provide absolute positioning using the latest magnetic technology:

It eliminates many conventional mechanical components and provides a more precise control of the lift, mainly with regards to safety.

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

Interior architecture at the service of users.

Each detail of **SwiftRise®** has been designed to provide a more intuitive, comfortable and immersive travel experience.

Starting with the materials and textures used, and including the lighting and its quiet traction system; everything adds up creating a functional and pleasing surrounding adapted to the style of each space.

Car, push-buttons and indicators designed to optimize usability, improve space perception and enhance comfort standard during each travel.

200R Series

Sturdy and versatile cars that adapt to any architectural space.

The **200 R Series** has been designed to provide durability, style and functionality to every project. Manufactured with galvanised steel and cladded with high-quality laminates that offer the possibility of customise the appearance as well as the performance of the lift.

· Different options of **direct LED** spotlights.

- Stainless steel **lift-car doors** and front returns with different finishes available.

- BCR1 **operating panel** with 7” TFT colour indicator (other operating panels also available).

- Optional **skirting** in anodised aluminium finish.

- **Car floors** available in hard-wearing polymer.

- **Handrails** finished in AISI 304 stainless steel. Lift car also available with handrails on all walls or without any handrail.

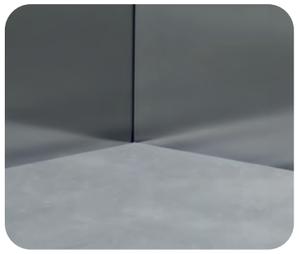
- **Mid-height mirror**, integrated with a functional design.

- **Designed** in full accordance with 2014/33/EU Directive, EN 81-20, EN 81-50 and EN 81-70.

R ST Series

Robustness and modern aesthetics in stainless steel.

The **R ST Series** cars are entirely built of stainless-steel plates of different textures that have been designed to withstand intensive use without sacrificing a beautiful appearance.



· Different options of **direct LED** spotlights.

- Sturdy stainless-steel **lift-car doors** and front returns with a functional design.

- BCR2 **operating panel** with 7” TFT colour indicator (other operating panels also available).

- Optional **skirting** in anodised aluminium finish.

- **Car floors** available in hard-wearing polymer (other finishes also available under request).

- **Handrails** finished in AISI 304 stainless steel. Lift car also available with handrails on all walls or without any handrail.

- **Mid-height mirror**, stylish and functional.

- **Designed** in full accordance with 2014/33/EU Directive, EN 81-20: EN 81-50:and EN 81-70.

300R Series

Sophisticated design with top technical features.

The **300 R Series** lift cars are built with galvanised steel sheeting and cladded with high pressure laminates in a wide range of colours.

- Different options of **direct LED** spotlights.

- Stainless steel **lift-car doors** and front returns.

- BCR2 **operating panel** with7” TFT colour indicator (other operating panels also available).

- Optional **skirting** in anodised aluminium.

- **Car floors** in hard-wearing polymer.

- **Handrails** in AISI 304 stainless steel.
  Lift car also available with handrails on all walls or without any handrail.

- Stylish **high mirror**.

- **Designed** in full accordance with 2014/33/EU Directive, EN 81-20, EN 81-50 and EN 81-70.

Lift car’s real internal dimensions with decoration 300 R 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.

Car wall panels

Light Reflectance Value

200 *R* Series · Skinplate

PB10 35 · PB15 51 · PB20 64 · PB25 37 · PB30 53 · PB35 18

PB40 64 · PB50 43 · PB55 57 · PB60 15 · P422 32 · P432 45

PB80 30 · PB65 32 · PB70 15 · PB75 7 · P222 67

Series R ST · Stainless steel

Inox 45 · Linen 20 · Elephant skin 22

300 *R* Series · High-pressure laminates

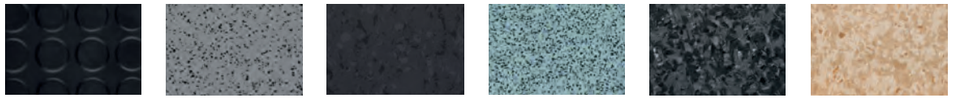
PM60 7 · PM 20 7 · PM 25 44 · PM 35 73 · PM 40 34 · PM 45 31

PM 50 24 · PM 55 9 · PM65 40 · PM70 35 · PM75 14 · PM80 10 · PM85 13

Flooring

Light Reflectance Value

Rubber



S45GN 4 · S42GB 27 · S101 10 · S102 26 · S52GN 15 · S62GG 58

Granite

Pearl gray 35 · Clear labrador 12 · Black labrador 5

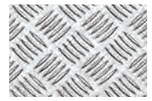
Marble

White Italia 85 · Brown portuguese 65

Stainless steel

S2_I 39 · S35_I 45

Aluminium



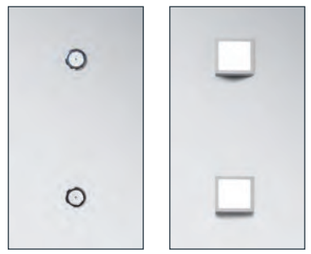
S3AL 42

Local flooring preparation 25mm available on request.

Handrails

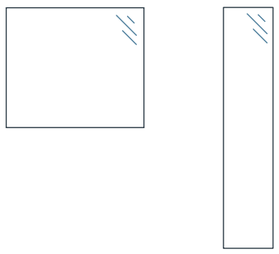
PSR 45

Lighting



Spot LED 80 · Spot LED square 80

Mirrors



Mid-height mirror* · High mirror**

**Wide safety mirror from above the handrail to ceiling*

*** Tall safety mirror from skirting level to ceiling*

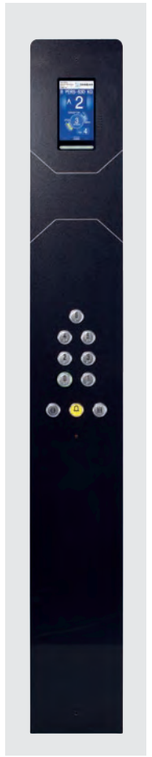
All portrayed lighting and mirrors are compatible with the 200R, 300R and R ST series cars.

Car operating panels, landing push stations & indicators

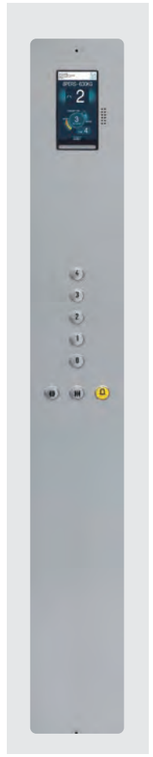
Car operating panels

BCR1 18

BIR1 45



BCR2 18



BIR2 45

All portrayed car operating panels are compatible with the 200R, 300R and R ST series cars.

Car push-buttons

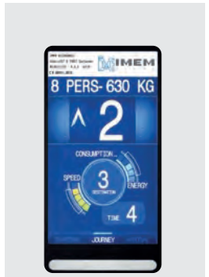
PCEB* US91(**) y (***) PCMT(**)

* *Stainless steel push buttons with tactile legend and Braille (EN81-70 compliant).*

** *For BIR1 and BIR2 panels only.*

*** *Push buttons US91, 10 floor limit.*

Car display



Smartech (7")

Landing Push Stations

BER1*

BER2**

BER3***

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

Landing push buttons

PEEB

US91*

PCMT**

* *Only for BER2 push station.*
** *Only for BER2 and BER3 push stations*

Landing indicators

Display Smartech HR*

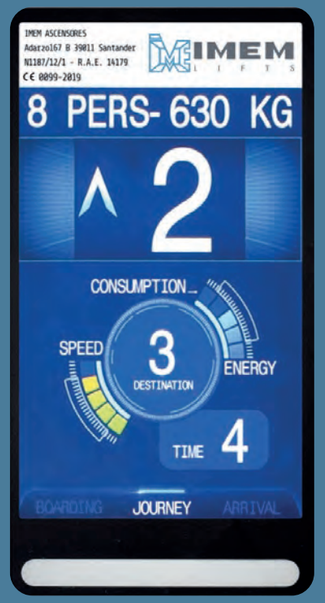
HLER - Car**

FERV

**Option EN81-70: with "next direction arrow" and gong*
*** EN81-70*

Lift Car Smartech Display

Advanced information in real time.



The Smartech system incorporates a TFT screen that provides all relevant travel information, with a clear, modern and highly functional 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.

Floor Smartech HR Display *

*Optional

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.

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 (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).

Designed with installers in mind.

SwiftRise® has been designed considering the real needs of installation and maintenance companies, providing practical solutions throughout the working life of the lift.

Optimised packaging

SwiftRise® is delivered within a packaging organized and labelled for maximum ease of installation.

All the 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 system comes with all the detailed checklists, documents and installation manuals required for an efficient and error-free start-up.

Quick and easy installation

SwiftRise® can be installed in under 90 hours thanks to its refined design made for efficient installation.

Plug & Play System

Our electrical packages are supplied pre-tested and pre-wired to the specific gearless machine that is shipped with the lift, eliminating any margin of error and saving time on site.

Automatic synchronization

The gearless machine and the VF drive synchronize automatically avoiding adjustment processes and their associated costs.

Easy to maintain

Maintenance operations are quick, safe and straightforward. IoT based **IMEM Smart City** technology enables predictive maintenance through telemetry and remote management.

Real time technical support

Our highly qualified technical team (mechanical or electrical) is available to assist customers in real time and in their own language.

Spare parts guaranteed

Full traceability and availability of original spare parts installed.

Fast delivery

Once an order has been confirmed, **SwiftRise®** can be delivered in just 6 weeks.

SwiftRise Core: The system's smart brain.

SwiftRise® Core is the control system developed by **IMEM** to manage, with maximum precision, all the actions of the **SwiftRise®** lift.

It is the nerve centre of the system, integrating intelligence, connectivity and speed like never before.

It can reach 1.75 m/s in 1 m/s shafts, with no shaft modifications required and includes advanced connectivity that facilitates lift's maintenance and control.

Fully integrated

SwiftRise® Core provides a perfect integration with mechanical and electrical components of the lift. Minimises the sensors required, simplifies installation and reduces energy consumption.

Easy to install, with no room for error

It is supplied pre-assembled, preconnected and pre-tested.

It integrates a software that allows a single person to perform a levelling operation in minutes and from inside the lift car (during the installation phase).

- **Compatible with simple as well as complex configurations**
- **It eliminates the need of traditional sensors and magnets**
- **Drastic reduction of installation time**
- **Advanced control, safety and efficiency features**

The best of Open Protocol and original equipment manufacturer

The flexibility of Open Protocol powered by IMEM's technology and expertise will full access to our technical support and spare parts.

Full manufacturing, full support

IMEM manufactures electrical and mechanical components, therefore we do not only supply lifts but fully integrated technical solutions where mechanical and electronic technologies interact in the most advanced performance.

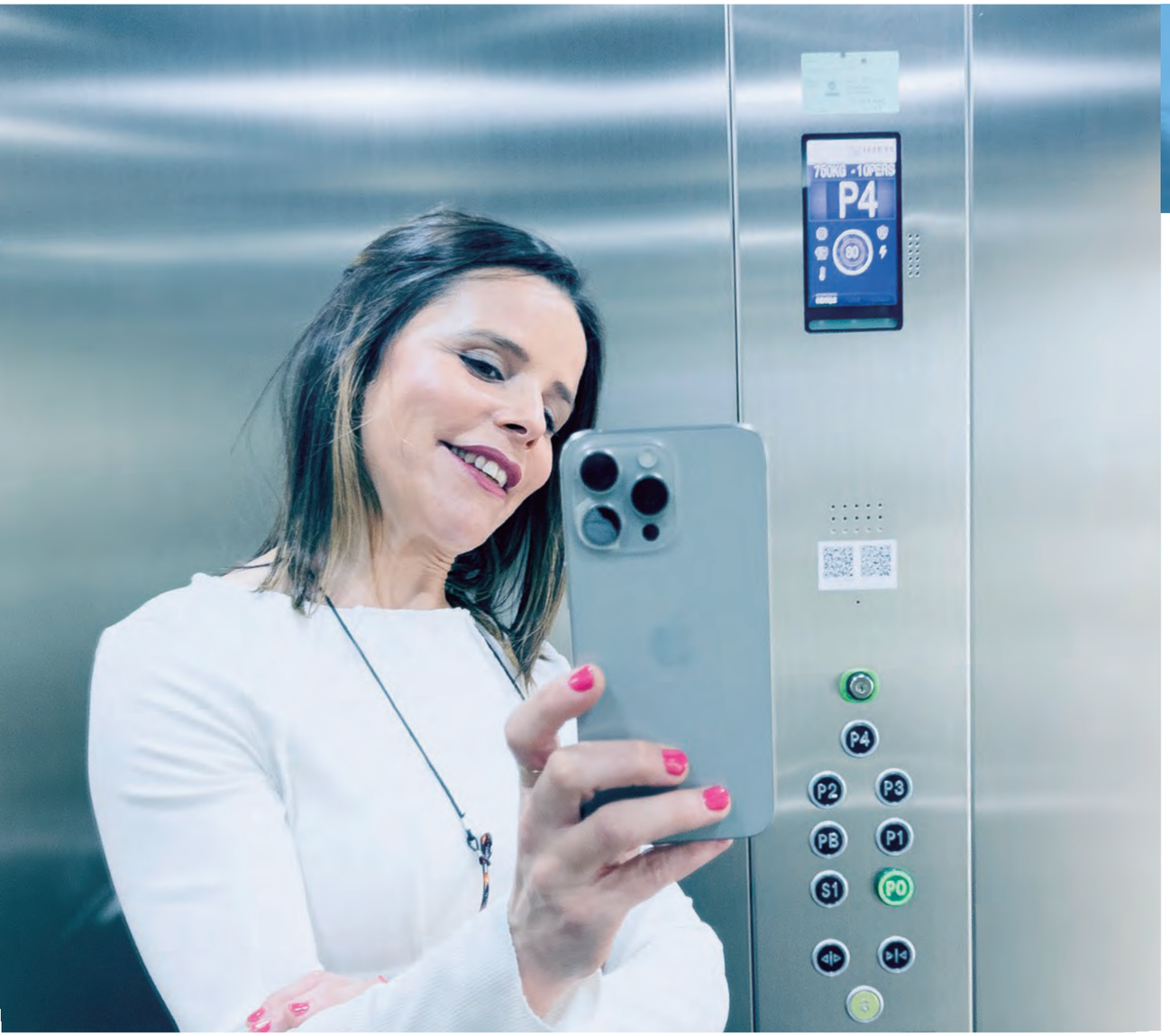
We provide specialised support that begins with the design of the project and continues with maintenance, saving time and ensuring excellent performance throughout the lift's working life.

New configuration and diagnostic tool.

A built-in **8 inch touchscreen** console located in the control panel provides **instant access to key diagnostic data, installation guides and manuals, system status** and **real-time monitoring**, all in a friendly and intuitive interface.

This tool assists technicians to achieve faster installations, easier troubleshooting and **more efficient maintenance tasks**.

Combined with the **IoT IMEM Smart City connectivity**, it provides full access to documents and technical support on request.



IMEM SMART CITY, IOT technology for **IMEM** lifts.

IMEM Smart City is a connectivity platform for lifts based on cloud IoT technology that can be accessible from any internet-connected device. We have developed it using our experience as designers, manufacturers, installers and maintenance technicians. IMEM Smart City opens a new era in elevator lift work.

- **Comprehensive information** available regarding the portfolio of installed lifts.

- **Dashboard** providing **real time status** regarding the **quality** of **service** of the lifts portfolio and statistics.

- **Satellite map** GPS Location of the lift and **real time** access to the route and the situation of traffic in such location.

- **Multiple performance** and **service quality indicators** available.

- **Date of the last intervention** performed.

- **Access to the lift's complete technical documentation** (manuals, diagrams, drawings, certificates, etc.).

- **Real time** monitoring of the lift's performance through a **user-friendly interface**

Remote diagnostics with:

- Access to the **troubleshooting system** of potential causes and solution proposals.

- Access to the **log of the events** that took place before an incident.

- Possibility of **log recording during lift traffic**.

- **Real time e-mail notification** with information **regarding alerts, alarms and** their resolution.

- **Our technical support department** can also take action (**upon request**).

- **Optional remote control system software update** (over the air).

- Also available for **pre-existent lifts** with **no wiring modifications required**.

Operational and service functions

Direct approach
The lift approaches the floor 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.

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.

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.

Seismic sensor
The equipment is delivered ready for the installation of a seismic sensor

Multiple movement functions

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.

Standard Function **Optional Function**

Door operation functions

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
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.

Signalisation and indicator 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 synthesiser
This is a voice synthesiser that emits informative messages concerning the operation of the lift.

Emergency operation functions

Manual rescue
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.

Traditional overspeed governor and safety gear

RATED LOAD · **450kg / 6 people** | ROPING · **2:1** | MAXIMUM SPEED · **1.2 m/s or 1,75 m/s**

Entrances Angle	Car Width (A)	Car Depth (B)	Shaft Width (C)	Shaft Depth (D)	Door type (C/O)	Min. Headroom CH 2175mm	Pit
1/0°	950	1300	1450	1565	Side opening 2P 800 (FERMATOR COMPACT)	3400	1050
2/180°	950	1300	1450	1690			
1/0°	1000	1200	1500	1465			
2/180°	1000	1200	1500	1590			
1/0°	1000	1250	1500	1515			
2/180°	1000	1250	1500	1640			
1/0°	1000	1300	1500	1565			
2/180°	1000	1300	1500	1690			
1/0°	1050	1200	1550	1465			
2/180°	1050	1200	1550	1590			
1/0°	950	1300	1750	1530			
2/180°	950	1300	1750	1618			
1/0°	1000	1200	1750	1430	Central 2P 800 (FERMATOR COMPACT)		
2/180°	1000	1200	1750	1518			
1/0°	1000	1250	1750	1480			
2/180°	1000	1250	1750	1568			
1/0°	1000	1300	1750	1530			
2/180°	1000	1300	1750	1618			
1/0°	1050	1200	1750	1430			
2/180°	1050	1200	1750	1518			

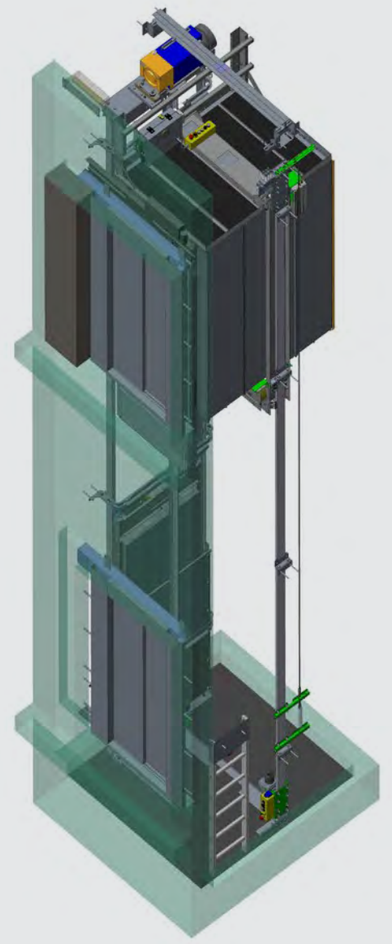
RATED LOAD · **630kg / 8 people** | ROPING · **2:1** | MAXIMUM SPEED · **1.2 m/s or 1,75 m/s**

Entrances Angle	Car Width (A)	Car Depth (B)	Shaft Width (C)	Shaft Depth (D)	Door type (C/O)	Min. Headroom CH 2175mm	Pit
1/0°	1050	1450	1550	1715	Side opening 2P 800 (FERMATOR COMPACT)	3400	1050
2/180°	1050	1450	1550	1840			
1/0°	1100	1400	1600	1665			
2/180°	1100	1400	1600	1790			
1/0°	1150	1350	1650	1615			
2/180°	1150	1350	1650	1740			
1/0°	1100	1400	1600	1665	Side opening 2P 900 (FERMATOR COMPACT)		
2/180°	1100	1400	1600	1790			
1/0°	1150	1350	1650	1615			
2/180°	1150	1350	1650	1740			
1/0°	1050	1450	1750	1680	Central 2P 800 (FERMATOR COMPACT)		
2/180°	1050	1450	1750	1768			
1/0°	1100	1400	1750	1629			
2/180°	1100	1400	1750	1718			
1/0°	1150	1350	1750	1580			
2/180°	1150	1350	1750	1668			
1/0°	1100	1400	1950	1629	Central 2P 900 (FERMATOR COMPACT)		
2/180°	1100	1400	1950	1718			
1/0°	1150	1350	1925	1580			
2/180°	1150	1350	1925	1668			

All dimensions are based on the door sill being 25mm inside the lift shaft.

EN81-70: T1 car dimensions
EN81-70: T2 car dimensions
EN81-70: T2 car dimensions with a 800mm C/O only for existing buildings.

Mechanics 450 · 630 Kg



Operational ranges (standard arrangement)

Maximum travel	Up to 60 m	
Shaft	**Pit**	Minimum: 1050 mm · Maximum: 1550 mm
	Headroom	Minimum: 3400mm (CH 2175mm) and 3500mm (CH 2275mm)
	Minimum width	Car width + 500 mm
	Maximum width	Car width + 1100mm
	For lift shafts with >40m travel, the recommended shaft width: Car width + 550 mm	
	Shaft width tolerance -10/+50mm	
	Shaft depth tolerance with single entry 0° -10/+infinite mm	
	Shaft depth tolerance with through car 180° -0/+30 mm	
Car	**Minimum depth**	1200 mm
	Maximum depth	1450 mm
	Minimum width	950 mm
	Maximum width	1150 mm
	Standard height	2175mm with 2000mm high doors (option for 2275mm with 2100mm high doors)

RATED LOAD · 630kg / 8 people | ROPING · 2:1 | MAXIMUM SPEED · 1.2 m/s or 1,75 m/s

Entrances Angle	Car Width (A)	Car Depth (B)	Shaft Width (C)	Shaft Depth (D)	Door type (C/O)	Min. Headroom CH 2175mm	Pit
1 / 0°	1100	1400	1600	1665	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	1400	1600	1790			
1 / 0°	1100	1400	1750	1629	Central 2P 800 (FERMATOR COMPACT)		
2 / 180°	1100	1400	1750	1718			
1 / 0°	1100	1400	1950	1629	Central 2P 900 (FERMATOR COMPACT)		
2 / 180°	1100	1400	1950	1718			

RATED LOAD · 700kg / 9 people | ROPING · 2:1 | MAXIMUM SPEED · 1.2 m/s or 1,75 m/s

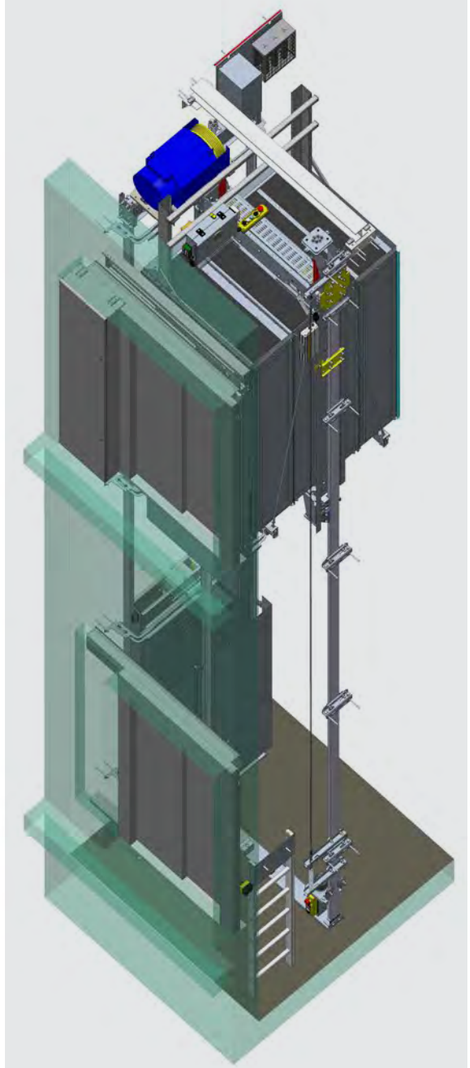
Entrances Angle	Car Width (A)	Car Depth (B)	Shaft Width (C)	Shaft Depth (D)	Door type (C/O)	Min. Headroom CH 2175mm	Pit
1/0°	1100	1500	1600	1765	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2/180°	1100	1500	1600	1890			
1/0°	1200	1400	1700	1665			
2/180°	1200	1400	1700	1790	Central 2P 800 (FERMATOR COMPACT)		
1/0°	1100	1500	1750	1730			
2/180°	1100	1500	1750	1818			
1/0°	1200	1400	1750	1630			
2/180°	1200	1400	1750	1718			
1/0°	1100	1500	1950	1730	Central 2P 900 (FERMATOR COMPACT)		
2/180°	1100	1500	1950	1818			
1/0°	1200	1400	1950	1630			
2/180°	1200	1400	1950	1718			

RATED LOAD · 800kg / 10 people | ROPING · 2:1 | MAXIMUM SPEED · 1.2 m/s or 1,75 m/s

Entrances Angle	Car Width (A)	Car Depth (B)	Shaft Width (C)	Shaft Depth (D)	Door type (C/O)	Min. Headroom CH 2175mm	Pit
1 / 0°	1100	1600	1600	1865	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	1600	1600	1990			
1 / 0°	1100	1700	1600	1965			
2 / 180°	1100	1700	1600	2090			
1 / 0°	1100	1800	1600	2065			
2 / 180°	1100	1800	1600	2190			
1 / 0°	1200	1500	1700	1765			
2 / 180°	1200	1500	1700	1890			
1 / 0°	1200	1600	1700	1865			
2 / 180°	1200	1600	1700	1990			
1 / 0°	1300	1400	1800	1665	Side opening 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1300	1400	1800	1790			
1 / 0°	1300	1500	1800	1765			
2 / 180°	1300	1500	1800	1890			
1 / 0°	1400	1400	1900	1665			
2 / 180°	1400	1400	1900	1790			
1 / 0°	1100	1600	1750	1830	Central 2P 800 (FERMATOR COMPACT)		
2 / 180°	1100	1600	1750	1918			
1 / 0°	1100	1700	1750	1930			
2 / 180°	1100	1700	1750	2018			
1 / 0°	1100	1800	1750	2030			
2 / 180°	1100	1800	1750	2118			
1 / 0°	1200	1500	1750	1730			
2 / 180°	1200	1500	1750	1818			
1 / 0°	1200	1600	1750	1830			
2 / 180°	1200	1600	1750	1918			
1 / 0°	1300	1400	1950	1630	Central 2P 900 (FERMATOR COMPACT)		
2 / 180°	1300	1400	1950	1718			
1 / 0°	1300	1500	1950	1730			
2 / 180°	1300	1500	1950	1818			
1 / 0°	1400	1400	1950	1630			
2 / 180°	1400	1400	1950	1718			
1 / 0°	1300	1400	2150	1630	Central 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1300	1400	2150	1718			
1 / 0°	1300	1500	2150	1730			
2 / 180°	1300	1500	2150	1818			
1 / 0°	1400	1400	2150	1630			
2 / 180°	1400	1400	2150	1718			

* A UP (upper position) of 3400 mm (with a cabin height of 2175 mm) or 3200 mm (with a cabin height of 2000 mm) can be achieved if the mounting beam is removed after installation is completed.

Mechanics 630, 700, 800, 900, 1000, 1250 and 1275 Kg



NOTES

All car dimensions comply with EN81-70 T2.

The table is based on **Fermator Compact** doors mounted on the landing (the sill is placed 25mm inside the shaft).

The dimensions shown in the tables correspond to configurations with standard 200R, R ST, and 300R all car.

RATED LOAD · 900kg / 12 people | ROPING · 2:1 | MAXIMUM SPEED · 1.2 m/s or 1,75 m/s

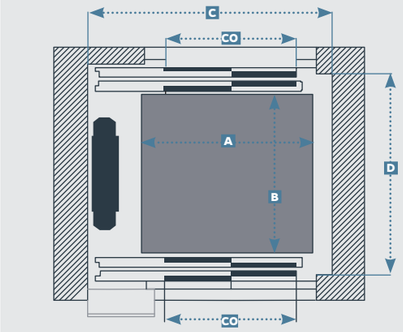
Entrances Angle	Car Width (A)	Car Depth (B)	Shaft Width (C)	Shaft Depth (D)	Door type (C/O)	Min. Headroom CH 2175mm	Pit
1 / 0°	1100	1900	1600	2165	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	1900	1600	2290			
1 / 0°	1200	1700	1700	1965			
2 / 180°	1200	1700	1700	2090			
1 / 0°	1300	1600	1800	1865	Side opening 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1300	1600	1800	1990			
1 / 0°	1400	1500	1900	1765			
2 / 180°	1400	1500	1900	1890			
1 / 0°	1500	1400	2000	1665			
2 / 180°	1500	1400	2000	1790			
1 / 0°	1100	1900	1750	2130	Central 2P 800 (FERMATOR COMPACT)		
2 / 180°	1100	1900	1750	2218			
1 / 0°	1200	1700	1750	1930			
2 / 180°	1200	1700	1750	2018			
1 / 0°	1300	1600	1950	1830	Central 2P 900 (FERMATOR COMPACT)		
2 / 180°	1300	1600	1950	1918			
1 / 0°	1400	1500	1950	1730			
2 / 180°	1400	1500	1950	1818			
1 / 0°	1500	1400	2050	1630			
2 / 180°	1500	1400	2050	1718			
1 / 0°	1300	1600	2150	1830	Central 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1300	1600	2150	1918			
1 / 0°	1400	1500	2150	1730			
2 / 180°	1400	1500	2150	1818			
1 / 0°	1500	1400	2150	1630			
2 / 180°	1500	1400	2150	1718			

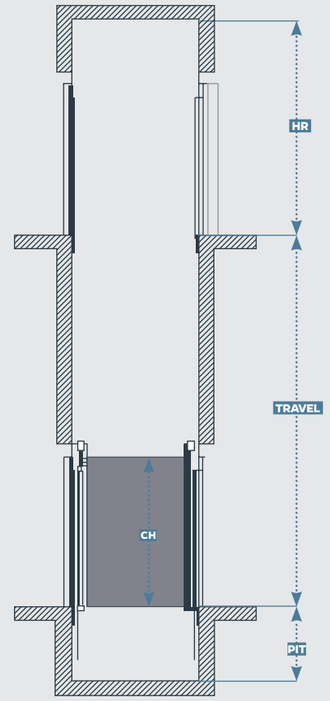
* A UP (upper position) of 3400 mm (with a cabin height of 2175 mm) or 3200 mm (with a cabin height of 2000 mm) can be achieved if the mounting beam is removed after installation is completed.

RATED LOAD · 1000kg / 13 people | ROPING · 2:1 | MAXIMUM SPEED · 1.2 m/s or 1,75 m/s

Entrances Angle	Car Width (A)	Car Depth (B)	Shaft Width (C)	Shaft Depth (D)	Door type (C/O)	Min. Headroom CH 2175mm	Pit
1 / 0°	1100	2000	1600	2265	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1100	2000	1600	2390			
1 / 0°	1100	2100	1600	2365			
2 / 180°	1100	2100	1600	2490			
1 / 0°	1200	1800	1700	2065			
2 / 180°	1200	1800	1700	2190			
1 / 0°	1200	1900	1700	2165			
2 / 180°	1200	1900	1700	2290			
1 / 0°	1200	2000	1700	2265			
2 / 180°	1200	2000	1700	2390			
1 / 0°	1300	1700	1800	1965	Side opening 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1300	1700	1800	2090			
1 / 0°	1300	1800	1800	2065			
2 / 180°	1300	1800	1800	2190			
1 / 0°	1400	1600	1900	1865			
2 / 180°	1400	1600	1900	1990			
1 / 0°	1400	1700	1900	1965			
2 / 180°	1400	1700	1900	2090			
1 / 0°	1500	1500	2000	1765			
2 / 180°	1500	1500	2000	1890			
1 / 0°	1500	1600	2000	1865			
2 / 180°	1500	1600	2000	1990			
1 / 0°	1600	1400	2100	1665			
2 / 180°	1600	1400	2100	1790			
1 / 0°	1600	1500	2100	1765			
2 / 180°	1600	1500	2100	1890			
1 / 0°	1100	2000	1750	2230	Central 2P 800 (FERMATOR COMPACT)		
2 / 180°	1100	2000	1750	2318			
1 / 0°	1100	2100	1750	2330			
2 / 180°	1100	2100	1750	2418			
1 / 0°	1200	1800	1750	2030			
2 / 180°	1200	1800	1750	2118			
1 / 0°	1200	1900	1750	2130			
2 / 180°	1200	1900	1750	2218			
1 / 0°	1200	2000	1750	2230			
2 / 180°	1200	2000	1750	2318			
1 / 0°	1300	1700	1950	1930	Central 2P 900 (FERMATOR COMPACT)		
2 / 180°	1300	1700	1950	2018			
1 / 0°	1300	1800	1950	2030			
2 / 180°	1300	1800	1950	2118			
1 / 0°	1400	1600	1950	1830			
2 / 180°	1400	1600	1950	1918			
1 / 0°	1400	1700	1950	1930			
2 / 180°	1400	1700	1950	2018			
1 / 0°	1500	1500	2050	1730			
2 / 180°	1500	1500	2050	1818			
1 / 0°	1500	1600	2050	1830			
2 / 180°	1500	1600	2050	1918			
1 / 0°	1600	1400	2150	1630	Central 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1600	1400	2150	1718			
1 / 0°	1600	1500	2150	1730			
2 / 180°	1600	1500	2150	1818			

* A UP (upper position) of 3400 mm (with a cabin height of 2175 mm) or 3200 mm (with a cabin height of 2000 mm can be achieved if the mounting beam is removed after installation is completed.





RATED LOAD · **1050kg / 14 people** | ROPING · **2:1** | MAXIMUM SPEED · **1.2 m/s or 1,75 m/s**

Entrances Angle	Car Width (A)	Car Depth (B)	Shaft Width (C)	Shaft Depth (D)	Door type (C/O)	Min. Headroom CH 2175mm	Pit
1 / 0°	1250	1900	1750	2165	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1250	1900	1750	2290			
1 / 0°	1250	1900	1750	2129	Side opening 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1250	1900	1750	2218			
1 / 0°	1250	1900	1950	2165	Central 2P 900 (FERMATOR COMPACT)		
2 / 180°	1250	1900	1950	2290			
1 / 0°	1250	1900	2200	2129	Central 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1250	1900	2200	2218			

RATED LOAD · **1125kg / 15 people** | ROPING · **2:1** | MAXIMUM SPEED · **1.2 m/s or 1,75 m/s**

Entrances Angle	Car Width (A)	Car Depth (B)	Shaft Width (C)	Shaft Depth (D)	Door type (C/O)	Min. Headroom CH 2175mm	Pit
1 / 0°	1300	1900	1800	2165	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1300	1900	1800	2290			
1 / 0°	1300	1900	1800	2165	Side opening 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1300	1900	1800	2290			
1 / 0°	1300	1900	1950	2129	Central 2P 900 (FERMATOR COMPACT)		
2 / 180°	1300	1900	1950	2218			
1 / 0°	1300	1900	2200	2129	Central 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1300	1900	2200	2218			

RATED LOAD · **1250kg / 16 people** | ROPING · **2:1** | MAXIMUM SPEED · **1.2 m/s or 1,75 m/s**

Entrances Angle	Car Width (A)	Car Depth (B)	Shaft Width (C)	Shaft Depth (D)	Door type (C/O)	Min. Headroom CH 2175mm	Pit
1 / 0°	1350	2000	1850	2265	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1350	2000	1850	2390			
1 / 0°	1350	2000	1850	2265	Side opening 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1350	2000	1850	2390			
1 / 0°	1350	2000	1950	2229	Central 2P 900 (FERMATOR COMPACT)		
2 / 180°	1350	2000	1950	2318			
1 / 0°	1350	2000	2200	2229	Central 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1350	2000	2200	2318			

RATED LOAD · **1275kg / 17 people** | ROPING · **2:1** | MAXIMUM SPEED · **1.2 m/s or 1,75 m/s**

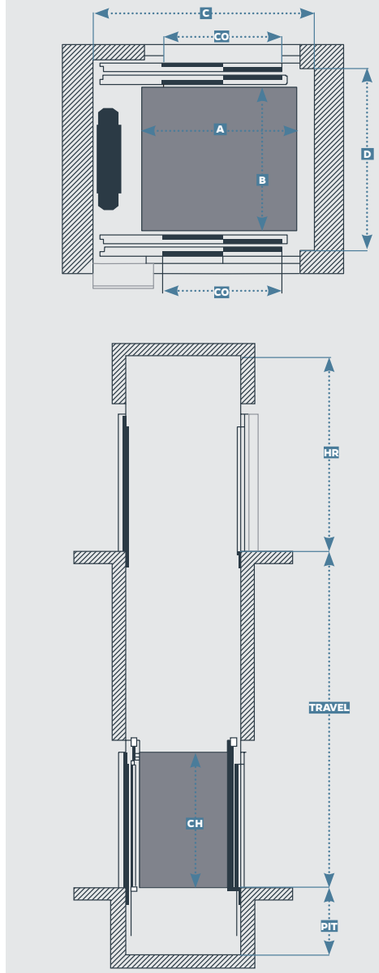
Entrances Angle	Car Width (A)	Car Depth (B)	Shaft Width (C)	Shaft Depth (D)	Door type (C/O)	Min. Headroom CH 2175mm	Pit
1 / 0°	1400	2000	1900	2265	Side opening 2P 900 (FERMATOR COMPACT)	3450*	1050
2 / 180°	1400	2000	1900	2390			
1 / 0°	1400	2000	1900	2265	Side opening 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1400	2000	1900	2390			
1 / 0°	1400	2000	1950	2229	Central 2P 900 (FERMATOR COMPACT)		
2 / 180°	1400	2000	1950	2318			
1 / 0°	1400	2000	2200	2229	Central 2P 1000 (FERMATOR COMPACT)		
2 / 180°	1400	2000	2200	2318			

* A 3400mm headroom con be achieved if the lifting beam is removed once the installation has been completed.

** A 3200mm headroom, with car height of 2000mm, con be achieved if the lifting beam is removed once the installation has been completed.

All car dimensions comply with EN81-70 T2.

Table made with Fermator Compact doors on landings (25 mm sill in the shaft)



Operational ranges

Maximum travel	Up to 7 0 m	
Shaft	**Pit**	Minimum: 1050 mm · Maximum: 1900 mm
	Headroom	Minimum (CH 2175mm): 3450mm, (CH 2275mm) 3550 mm
	Minimum width measured from lift car	Car width + 500 mm
	For lift shafts with >40m travel, the recommended shaft width: Car width + 550 mm	
	Shaft width tolerance -10/+50mm	
	Shaft depth tolerance with single entry 0° -10/+infinite mm	
	Shaft depth tolerance with through car 180° -0/+30 mm	
	Minimum width	1600mm
	Maximum width measured from lift car	Car width + 1100mm
	Maximum width	2700mm (based on a car width of 1600 mm)
Lift car	**Minimum depth**	1400 mm
	Maximum depth	2100 mm
	Minimum width	1100 mm
	Maximum width	1600 mm
	Standard height	2175mm and 2275mm (other heights available on request)

Shaft depths for other door arrangements

For Fermator Compact doors with the sills inside the shaft and door frames on landings

2 Panel Side Opening - Single Entry 0°	Shaft depth + 85mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 49mm
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 170mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 98mm

For Fermator Compact doors completely installed inside the shaft, including door frames

2 Panel Side Opening - Single Entry 0°	Shaft depth + 125mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 89mm
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 250mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 178mm

For Augusta Evo doors mounted on the landings (sill overhang into the shaft is 25mm)

2 Panel Side Opening - Single Entry 0°	Shaft depth - 10mm
2 Panel Central Opening - Single Entry 0°	Shaft depth - 14mm
2 Panel Side Opening - Through Cabin 180°	Shaft depth - 20mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth - 28mm

For Augusta Evo doors with the sills inside the shaft and door frames on landings

2 Panel Side Opening - Single Entry 0°	Shaft depth + 65mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 21mm
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 130mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 42mm

For Augusta Evo doors completely installed inside the shaft, including door frames

2 Panel Side Opening - Single Entry 0°	Shaft depth + 105mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 61mm
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 210mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 122mm

For Hydra doors mounted on the landings (sill overhang into the shaft is 25mm)

2 Panel Side Opening - Single Entry 0°	Equal shaft depth
2 Panel Central Opening - Single Entry 0	Shaft depth + 21mm
3 Panel Side Opening - Single Entry 0°	Same as 2-panel telescopic doors
4 Panel Central Opening - Single Entry 0°	Same as 2-panel telescopic doors
2 Panel Side Opening - Through Cabin 180°	Same shaft depth as standard table
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 42mm
3 Panel Side Opening - Through Cabin 180°	Same as 2-panel telescopic doors
4 Panel Central Opening - Through Cabin 180°	Same as 2-panel telescopic doors

For Hydra doors with the sills inside the shaft and door frames on landings

2 Panel Side Opening - Single Entry 0°	Shaft depth + 85mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 91mm
3 Panel Side Opening - Single Entry 0°	Shaft depth + 130mm
4 Panel Central Opening - Single Entry 0°	Same as 2-panel telescopic doors
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 170mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 182mm
3 Panel Side Opening - Through Cabin 180°	Shaft depth + 260mm
4 Panel Central Opening - Through Cabin 180°	Same as 2-panel telescopic doors

For Hydra doors completely installed inside the shaft, including door frames

2 Panel Side Opening - Single Entry 0°	Shaft depth + 125mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 139mm
3 Panel Side Opening - Single Entry 0°	Shaft depth + 170mm
4 Panel Central Opening - Single Entry 0°	Same as 2-panel telescopic doors
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 250mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 278mm
3 Panel Side Opening - Through Cabin 180°	Shaft depth + 340mm
4 Panel Central Opening - Through Cabin 180°	Same as 2-panel telescopic doors

For Pegasus doors mounted on the landings (sill overhang into the shaft is 25mm)

2 Panel Side Opening - Single Entry 0°	Same shaft depth as standard table
2 Panel Central Opening - Single Entry 0°	Shaft depth + 21mm
3 Panel Side Opening - Single Entry 0°	Shaft depth + 45mm
4 Panel Central Opening - Single Entry 0°	Same as 2-panel telescopic doors
2 Panel Side Opening - Through Cabin 180°	Same shaft depth as standard table
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 42mm
3 Panel Side Opening - Through Cabin 180°	Shaft depth + 90mm
4 Panel Central Opening - Through Cabin 180°	Same as 2-panel telescopic doors

For Pegasus doors with the sills inside the shaft and door frames on landings

2 Panel Side Opening - Single Entry 0°	Shaft depth + 85mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 91mm
3 Panel Side Opening - Single Entry 0°	Shaft depth + 175mm
4 Panel Central Opening - Single Entry 0°	Same as 2-panel telescopic doors
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 170mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 182mm
3 Panel Side Opening - Through Cabin 180°	Shaft depth + 350mm
4 Panel Central Opening - Through Cabin 180°	Same as 2-panel telescopic doors

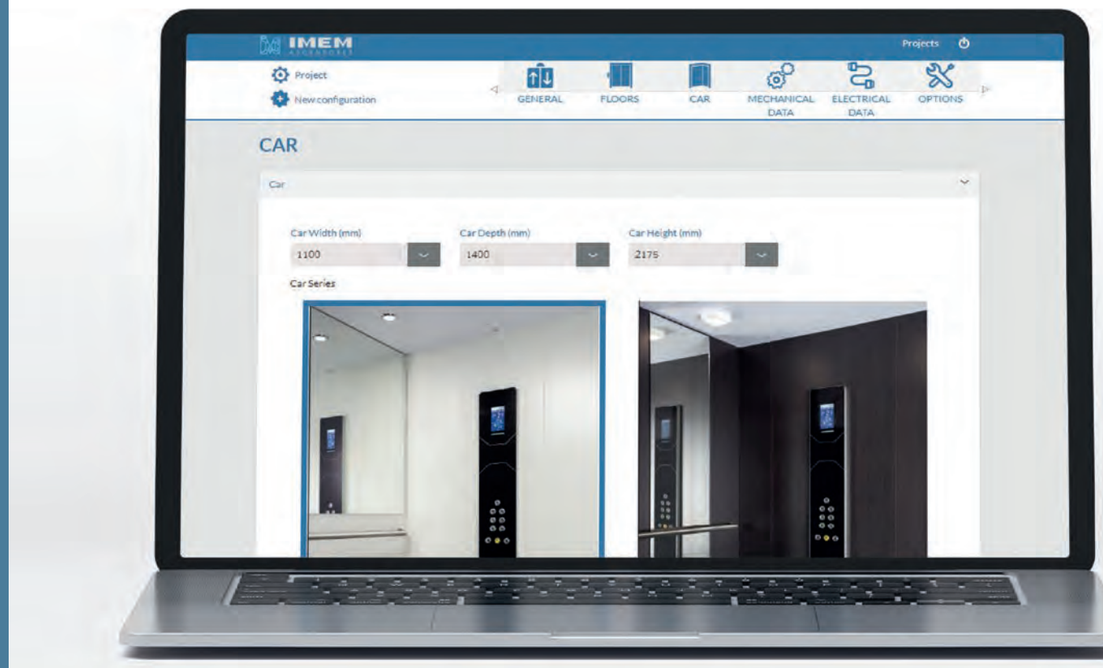
For Pegasus doors completely installed inside the shaft, including door frames

2 Panel Side Opening - Single Entry 0°	Shaft depth + 125mm
2 Panel Central Opening - Single Entry 0°	Shaft depth + 139mm
3 Panel Side Opening - Single Entry 0°	Shaft depth + 215mm
4 Panel Central Opening - Single Entry 0°	Same as 2-panel telescopic doors
2 Panel Side Opening - Through Cabin 180°	Shaft depth + 250mm
2 Panel Central Opening - Through Cabin 180°	Shaft depth + 278mm
3 Panel Side Opening - Through Cabin 180°	Shaft depth + 430mm
4 Panel Central Opening - Through Cabin 180°	Same as 2-panel telescopic doors

Pegasus doors only available for 630, 700, 800, 900, 1000, 1050, 1125, 1250 and 1275kg

Configurator

Our online configurator allows you to create, visualise and organise any SwiftRise project in record time, from the first phase through to delivery.



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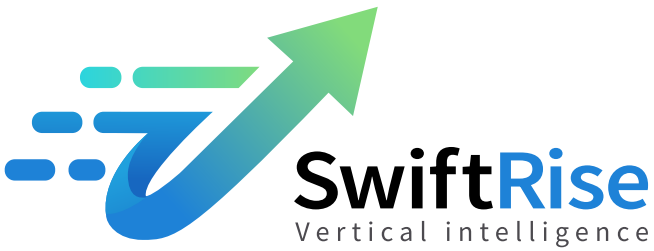
Vertical intelligence



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