



# MANGUSTA

Energy-saving lifts

High  
Efficiency  
Electric  
Lifts



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01

# WeAre

The first company to produce battery-only plants

Over 15 years of development

A.R.E. Srl was founded in 2009 thanks to the futuristic vision of Franco Antonelli, an elevation sector pioneer. His experience, which dates back to 1953, has revolutionised the way we design lifts with insights that have since become major sector milestones.

In 1995, Franco took up the challenge of finding a solution to the issue of accessibility for disabled people, a problem which the regulations at the time did not allow a traditional lift to solve. This led to him developing innovative technology for home lifts. His insight enabled home lifts to exceed the traditional 4-metre limit and transformed these products with their limited installation opportunities and reputation for being unsafe into highly reliable solutions that are considerably more versatile than traditional lifts.

Franco's search for new solutions continued in the years that followed. In 2003, he introduced a revolution in the industry: the use of batteries as the main power source for lifts. Up until that point, in fact, batteries had only been used on the sidelines and for stairlift.

Franco Antonelli's entrepreneurial vision was realised in 2009 with the birth of A.R.E., which stands for Ascensori a Risparmio Energetico (Energy Saving Lifts). Today, under the leadership of Franco's son, Filippo Antonelli, A.R.E. continues to invest in technological research for developing increasingly efficient, cutting-edge solutions.

+70  
years'  
experience

+300  
retailers

+8000  
lifts  
installed

Energy efficiency has always been our goal. We invest constantly in the development of technologies that offer innovative, high energy performance solutions.

# Our technology

## Patented technology ARE SMART-POWER®

The first battery platform



# 02

MANGUSTA is an electrically battery-powered Platform launched on the market for the first time in 2009. MANGUSTA, like all our lifts, benefits from ARE SMART POWER technology.



### Anti-Blackout System

The MANGUSTA Platform's main power supply is based on the use of batteries. It is, therefore, possible to continue using the lift even if there is an unexpected power cut, which guarantees accessibility and safety at all times.



### Energy recovery system

While in use, the energy produced by MANGUSTA is not wasted as heat but stored in the batteries by optimising the performance levels of the lift and dramatically bringing down electricity supply costs.



### Committed power

MANGUSTA consumes just 130W, on a par with that needed to use everyday electrical appliances.



### SOL-ARE Solar panels

It is possible to optimize the charging of the MANGUSTA platform's batteries by harnessing the solar energy produced by the photovoltaic panel.



### Highest energy efficiency

MANGUSTA offers higher performance levels than those of an oleodynamic lift with lower electricity consumption.

## Anti-Blackout System



A.R.E. technology, unlike that used by other manufacturers, relies on the use of BATTERIES as the main power system for its lifting systems and only uses the power grid to run the battery charging system. That technology guarantees that MANGUSTA can operate normally even in the event of a power cut (on average up to 60 runs).

This is the concept of "ALWAYS WORKING" common to all A.R.E. Lifts.



## Maximum power used



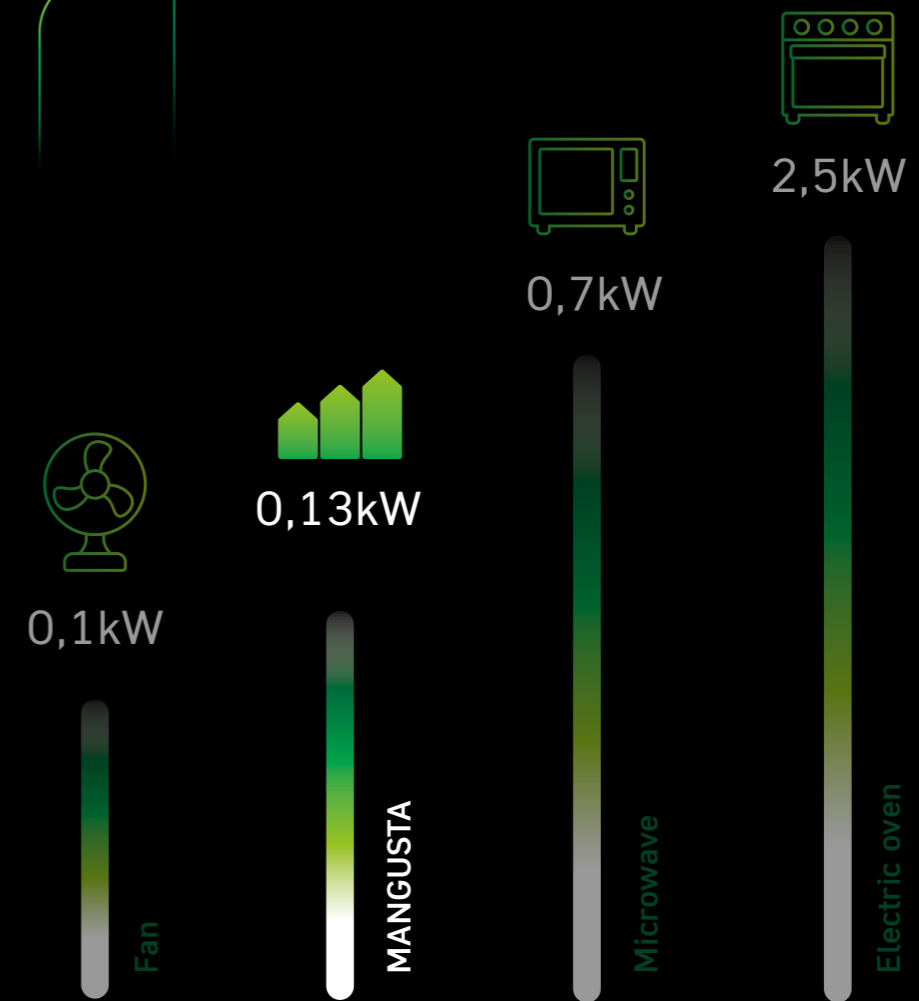
Most of the contracts for residential homes have a power usage of around 3 kW with a tolerance of +10%, that is, it is possible to withdraw up to 3.3 kW without any time limits.

Over and above this limit, the supplier automatically cuts the energy supply by making the meter switch "trip" which then needs to be manually reactivated.

Frequent cut-offs indicate a need for more power to meet the higher demands. In these cases, a request will need to be made to the supplier to increase the power supply by changing the existing contract and this will involve higher supply costs.

Thanks to the technology developed by A.R.E, the maximum power used by MANGUSTA is just 0.13 kW, on a par with that of an average electrical appliance.

There is no need, therefore, to change the supply contract stipulated, nor is there any need to install another meter with a higher power level. This is an advantage as the supplier's management costs for supplying electricity will not increase.



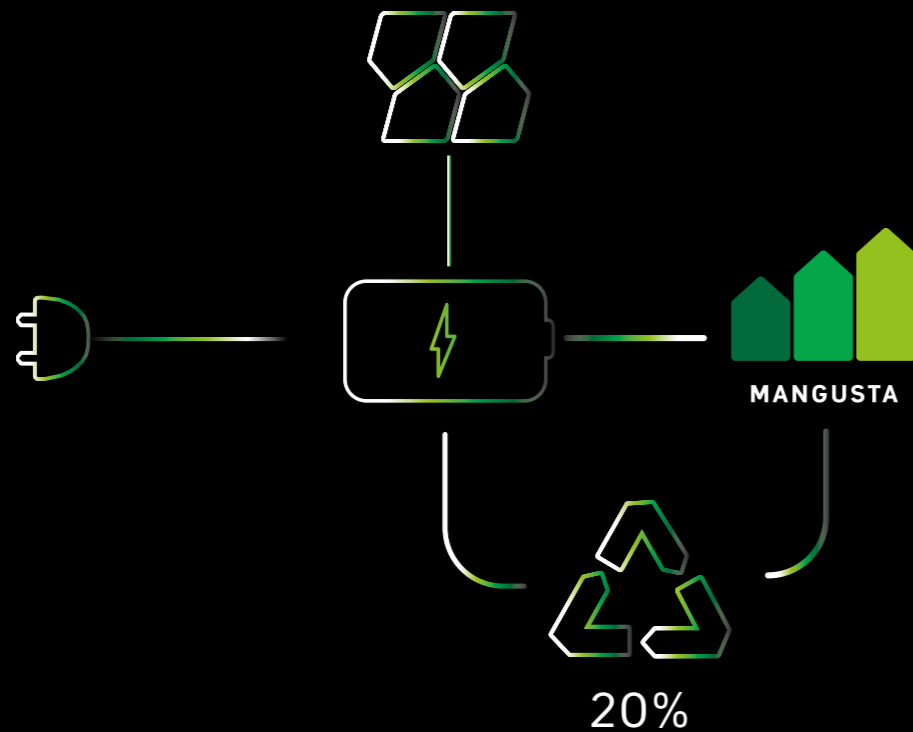
Oleodynamic platform : 2,7 kW

## Energy recovery system



The MANGUSTA Platform can generate energy during normal usage phases: when the cabin is going up empty or when it is going down and is full. The energy produced is not lost but stored in the batteries.

Thanks to the use of this technology, on average, one in every five times it is used, it does not absorb energy from the grid but uses what has been stored in the batteries. Self-powering guarantees a real reduction in consumption which translates into lower running costs.





# SOL-ARE Recharge from solar panels



SOL-ARE® is The new technological innovation patented by ARE. The main function of SOL-ARE is to optimise the battery charging process by using solar energy produced by the photovoltaic panel.

### ENERGY SAVING

The system automatically selects the ideal energy source (grid or photovoltaic panel) in order to reduce the amount of energy drawn from the grid, until it reaches a consumption level of ZERO.

### ENVIRONMENTAL SUSTAINABILITY

Integrating the photovoltaic panel in a system is environmentally friendly because it promotes the use of renewable energy sources.

### AUTOMATIC MANAGEMENT OF THE ELECTRICAL POWER

SOL-ARE® manages battery charging in a smart way, automatically changing the set operation mode, if the frequency of platform use requires it.

### AUTOMATIC MANAGEMENT OF THE ELECTRICAL POWER

The system decides the amount of current to draw from the grid autonomously, in compliance with the parameters defined for the minimum and maximum power.

### HOURLY PROGRAMMING

Being able to set the charging mode on an hourly basis, allows you to adapt the charging strategy to the daily uses of the lift, in order to minimise the consumption of electricity from the grid.

SOL-ARE® is equipped with 3 operating modes that the user can set on an hourly basis throughout the day, according to the expected use of the Mangusta Home lift.



#### ECO FULL

to be used during periods of moderate traffic.



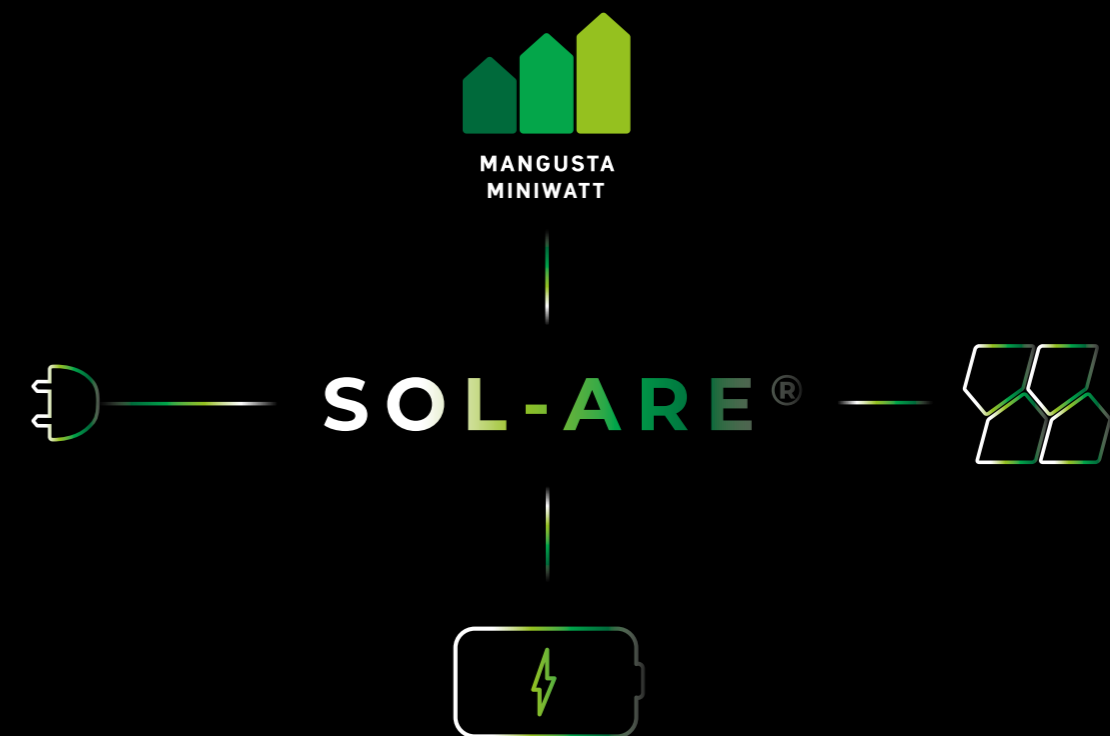
#### ECO HYBRID

to be used during periods of heavy traffic.



#### ECO NIGHT

to be used during periods of low or no traffic.



## Other advantages

### Not only energy saving



#### Comfortable & quiet

Soft departure and arrival, stopping precision and silence are the distinctive features of MANGUSTA, designed and manufactured to offer maximum comfort.



#### Eco-friendly & clean

MANGUSTA respects the environment because it does not use any kind of oil, even as a lubricant for the guides.



#### Motor room less

With MANGUSTA, there is no need for space to house oleodynamic control units and manoeuvring switchboards. The motor unit is located inside the lift well and the manoeuvring switchboard can be incorporated into a floor door.



#### Safety

MANGUSTA has a speed limiter which prevents uncontrolled cabin movement wherever it is. This limiter equates to compulsory devices found in lifts which comply with EN81-20:2014, 5.6.

# 03

## Configurations

### Tailor-made projects

#### Each Mangusta is a unique piece

You are unique just like our products designed for you are unique. Every client and each project require a specific solution. We are here for this, to look after your needs and satisfy your demands.

Each MANGUSTA, designed by us, is a unique piece, designed specifically for you. Our technology is here to assist you and the wide range of materials and colours makes choosing the solutions that can meet any demand easier.



# Variants

- No doors
- Folding car doors
- Automatic doors

## No doors

With this version, the cabin's manoeuvring is manual (defined as "with human presence") and there is always a full-height, multi-ray barrier photocell.



## Folding car doors

The folding cabin door offers the chance for automatic manoeuvre in the cabin even in limited spaces.



## Automatic doors

MANGUSTA is completely automatic in this version.

## Manual

Keep the button pressed for the entire duration of the course.

## Automatic

Press the button to activate the plant, just like a lift.

VARIANTS	USER'S MANOEUVRE	
	CABIN	LAND
No doors	Manual	Automatic
Folding car doors	Automatic	Automatic
Automatic doors	Automatic	Automatic

# Automatic doors

Automatic floor and cabin doors. Available with telescope closure with 2 wings or 3 wings and central closure with 2 and 4 wings. Folding cabin doors with electronic command system complete with operator wings and threshold, movement controlled by a mobile frame.



**STANDARD**  
*Standard model*



**FIRE RESISTANT**  
*Optional model*  
Automatic fire door  
EI 60 and EI-120.



**GLASS & METAL**  
*Optional model*  
Panoramic laminated  
glass and metallic  
frame.



**TOTAL GLASS**  
*Optional model*  
Laminated clear glass,  
polished stainless  
steel upper and lower  
fixing devices.

☑ RAL Paint finish | Laminated sheet | Stainless Steel | Galvanised & RAL Paint finish



**FOLDING DOOR**  
*Optional model*  
Cabin door



**PANORAMIC FOLDING DOOR**  
*Optional model*  
Cabin door

☑ RAL Paint finish | Stainless Steel

The portrayal of the products and colours is for explanatory purposes only.

# Swing doors

Semi-automatic swing doors, manual opening and automatic closure by return spring. Adaptable to any environment, with combinations of finishes, colours, glass and sizes. The aluminium handle shown in the pictures is included with the door.

## WINDOW



**C1**  
standard model



**V1**  
optional model



**P1**  
optional model



**PS1**  
optional model



**V2**  
optional model



**V3**  
optional model



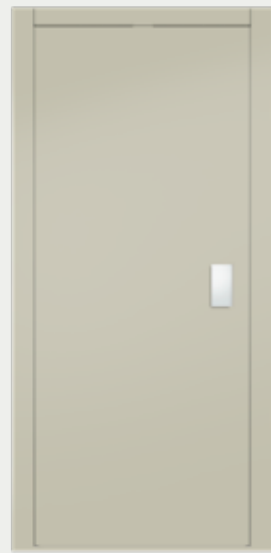
**D7**  
optional model



**D1**  
optional model

☑ Rust-proof Paint finish | RAL Paint finish | Galvanised & RAL Paint finish

☑ Rust-proof Paint finish | RAL Paint finish | Galvanised & RAL Paint finish



**FIRE RESISTANT**  
*optional model*

EI-120 Fire resistant single panel swing door with electrical safety lock. Semiautomatic, manual opening and automatic closing with return spring and damper, uprights with carters.



**THERMAL BREAK**  
*optional model*

Thermal break door to a hinged degree of transmittance thermal  $U = 2,12 \text{ W/m}^2\text{K}$  mineral wool in the leaf and in the frame (box). Gaskets of parafreddo stop along the door perimeter and lower floor hood profile.

☑ Rust-proof Paint finish | RAL Paint finish | Galvanised & RAL Paint finish



**ALLUMINIUM**  
*optional model*

Single panel Alluminium Panoramic model swing door with mechanical safety lock. Leaf made by extruded aluminium profile and panoramic glass without glazing beads, uprights and lintel made by extruded aluminium if the width is 100 mm, if different built in steel sheet and aluminium covered, stainless steel sill profile. Semiautomatic, manual opening and automatic closing with return spring and damper. Uprights with carters.



Stainless steel tube handle T20



Profiles in natural silver color anodized aluminium

☑ Natural Alluminium | RAL Paint finish Alluminium



**ARMOURED**  
*optional model*

Armored door with reinforced frame and door leaf, steel hinge. Armored lock with 4 pins with or without latch variant key/ key or external key inner shell. Semi-automatic, manual opening and automatic closing by return spring and shock absorber, uprights carterized. Vertical guardrails on request.



Armoured lock

☑ Rust-proof Paint finish | RAL Paint finish | Galvanised & RAL Paint finish



**CRYSTAL**  
*optional model*

Crystal model single panel swing door with safety lock. Leaf in tempered laminated glass, stainless steel handle and hinges. Semiautomatic, manual opening and automatic closing with adjustable hydraulic door closer, located inside the lintel and provided with 90° stop. Uprights with carters.



*optional model*

T20/30 | RC40 | TC30  
Profiles in natural anodized silver aluminium

☑ Stainless Steel | RAL Paint finish

## Cabin Monolith

### standard

#### A modern design for an exclusive result

Monolith cabin features a subtle and elegant line and can be customised to suit even the most demanding clients' requests. The standard product can be enhanced by choosing the skirting board and button in different materials and colours from those on the walls.

#### Every detail has been thought out

The side panels are always designed in proportion to the central panel whatever the size of the cabin. The same proportion continues in the cabin's roof profiles with a perfectly harmonious result.

☑ Laminated Sheet | RAL Paint finish | Stainless Steel

#### Highly robust and silent

The walls with vertical slats are not only aesthetic and design elements, but also have the dual function of increasing sturdiness and simplifying the Monolith assembly process. Furthermore, the exclusive design significantly reduces the noise caused by micro vibrations. The final effect is to make MANGUSTA even quieter and more comfortable.



half mirror (optional), handrail (optional), display (optional)





skirting (optional), cabin control panel and stainless steel floor (optional), display in the cabin and at the landing (optional)



skirting (optional), cabin control panel (optional), display in the cabin and handrail (optional)

## Cabin Elegant

*optional*

### The new design proposal

Elegant is the new line of cabins in Laminated Plastic with a state-of-the-art and elegant design.

☑ Laminated Plastic

### A unique cabin that is just as unique as your requirements

The new range of colours proposed for the walls includes both natural shades of wood and more sophisticated, paler colours.

The finishing in faux wood can perfectly reproduce the elegance of wood without compromising its resistance and enhancing the environment in which the cabin is installed.

In order to satisfy demands from the most exacting clients, both the colour of the walls and the finishings can be customised by choosing between Scotch-Brite stainless steel (standard supply) polished stainless steel and dam.

Each cabin is the result of a combination of a vast selection of materials with a unique and exclusive end product.



### The refinement of the modern design

Elegant Plus is the most innovative proposal with horizontal wall slats covered and profiled in plastic laminate. The walls are enhanced with finishings with stainless steel angles.

### The refinement of the classic

Elegant Unique is the most classic proposal and always modern with walls covered in plastic laminate and enhanced with stainless steel angles and skirting board.



## Metal structure

MANGUSTA can be supplied complete with metal structure well suited to being positioned both inside and outside the construction.

In order to meet all our customers' requirements, descent walkways are available (with parapets in metal or glass) with completely closed walkways, complete with transom windows and rain canopies (with sheet metal or glass cladding) and RAL painted doors and frames.

✓ RAL Paint finish | Galvanised & RAL Paint finish

All the structures comply with current construction standards. It is possible to request glass cladding (see pag.49) and panels in RAL painted metal sheets.



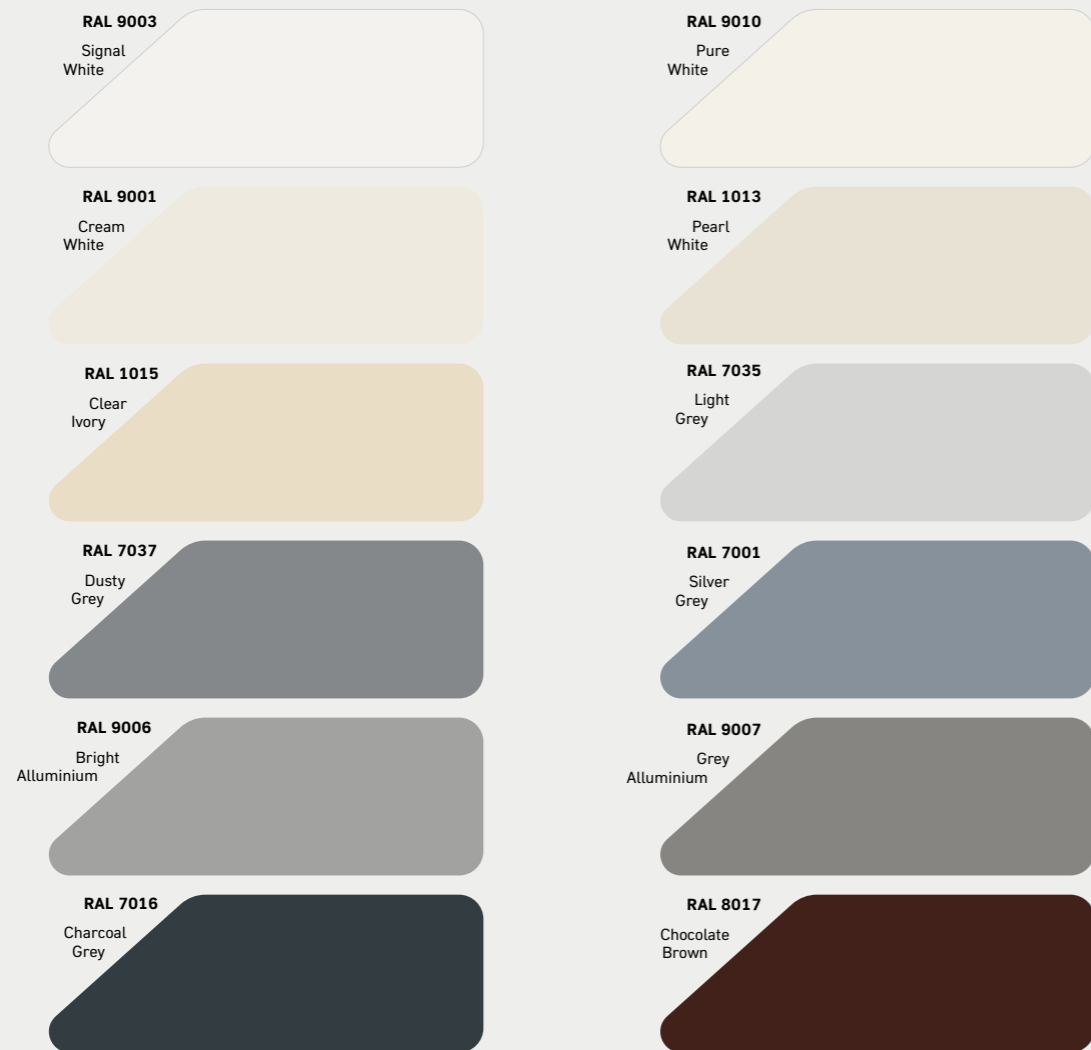


# Finishes

## RAL paint finish<sup>1</sup>

optional<sup>2</sup>

The colours shown may not be correctly represented. Please refer to the official RAL cards when choosing the RAL colour.



☑ Monolith cabin | Automatic cabin door | Automatic landing door | Swing door | Folding cabin door | Technical cabinet | Structure

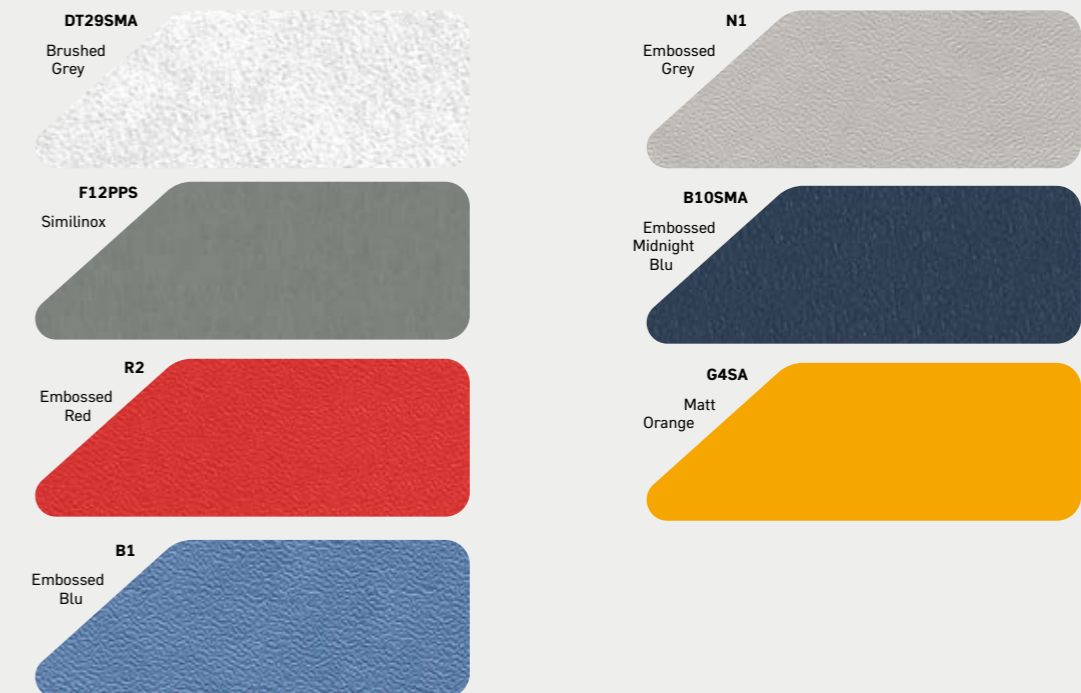
## Laminated sheet

Standard<sup>1</sup>

Per for automatic doors in the 115 System, Minisill, Glass & Metal models, please refer to the finishings for landind doors.



☑ Automatic landing door | Technical cabinet | Cabin Monolith | Automatic car door



☑ Monolith cabin | Automatic cabin door

<sup>1</sup> Standard RAL colors. It is possible to choose, for an additional cost, any color from the official RAL color chart except for pearlescent and metallic colors.

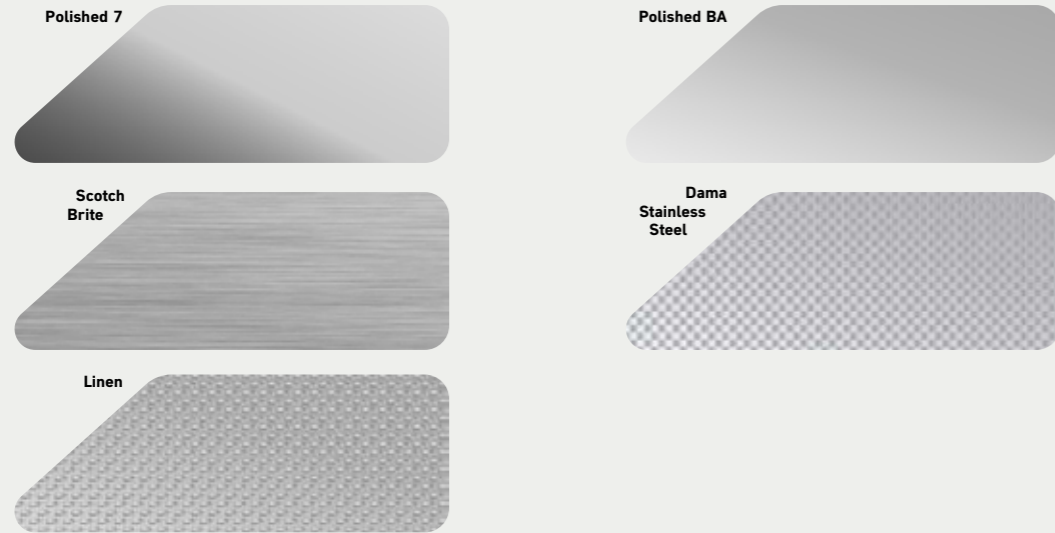
<sup>2</sup> Standard for automatic landing doors, swing doors, and structure. The portrayal of the products and colours is for explanatory purposes only.

<sup>1</sup> For cabin and automatic cabin door. The portrayal of the products and colours is for explanatory purposes only.

# Stainless steel

*optional*

We recommend choosing from the available options by following the table below.

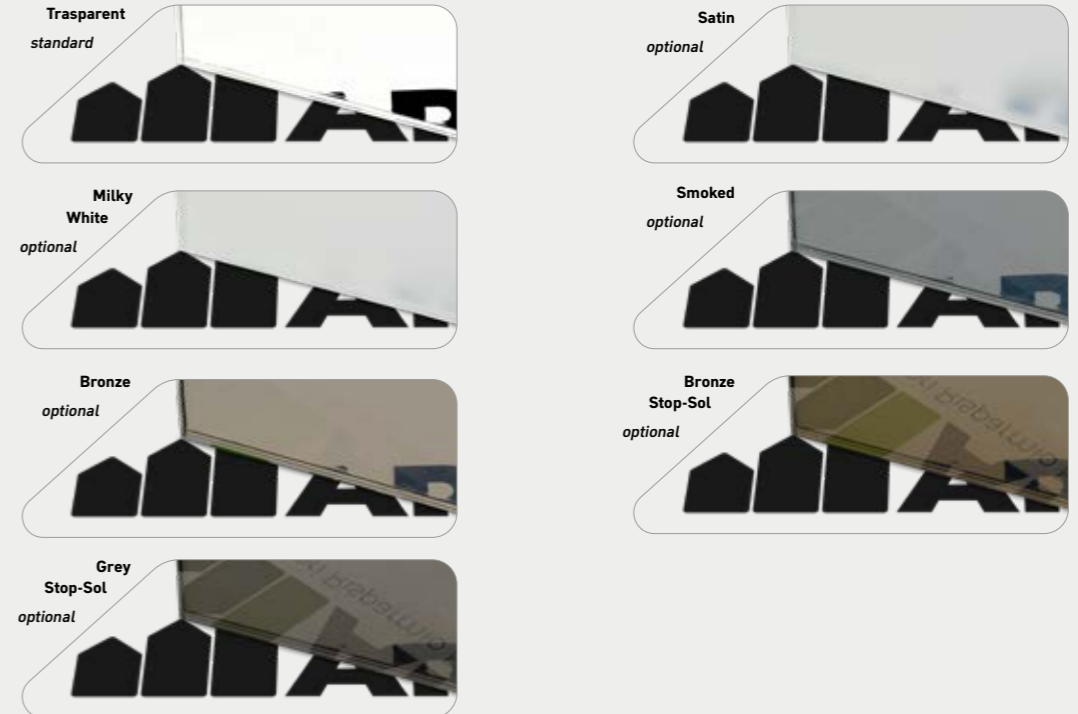


☑ Automatic car door | Automatic landing door | Crystal door | Monolith cabin | Folding cabin door  
Technical cabinet

STAINLESS STEEL	For indoor	For outdoor	Seafront
AISI 430 Scotch Brite	☑	×	×
AISI 304 Polished BA	☑	☑	×
AISI 304 Polished 7	☑	☑	×
AISI 304 Dama Stainless steel	☑	☑	×
AISI 304 Linen	☑	☑	×
AISI 316 Polished BA	☑	☑	☑

# Glass

For each environment, we offer you the opportunity to choose the finish that best enhances it.

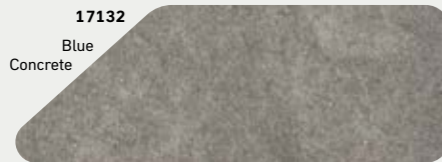
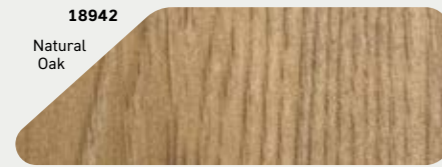


☑ Window swing door | Plugging structure | Crystal door | Alluminium door | Glass & Metal door  
Total Glass door | Panoramic car wall | Panoramic folding door

# PVC

## standard

These floors are a PUR Pearl surface, a combination of embossing and lacquering that guarantee the finished smooth and elegant matte feature that is highly resistant to scratches, tread and wear.



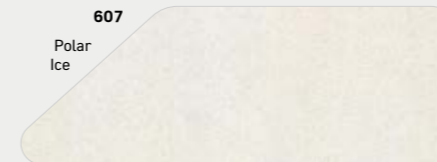
Floor's Client Set for client coating tickness max 15 mm

☑ Monolith car | Elegant car

# Granit touch

## optional

A mix obtained using grits of granite, quartz, glass and interlacing of glass mosaic. Most of the raw materials used are obtained by recycling Post-Consumption products. The perfect combination of these materials creates the right balance between technology and respecting the environment.

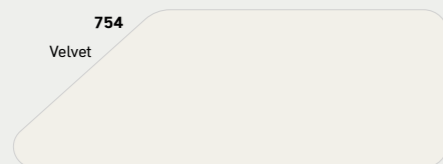
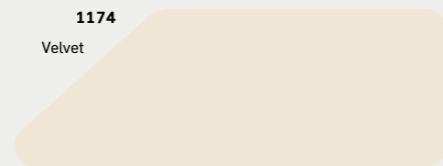
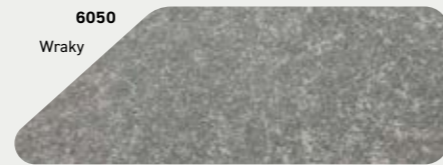


☑ Monolith car | Elegant car

# Laminated plastic

## standard <sup>1</sup>

The range of colors offered includes both natural wood-effect tones and softer, more refined colors capable of meeting every request.



☑ Elegant cabin

# Finishing summary

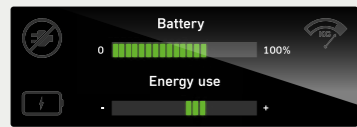
	Landing door		Door's cabin		Cabin		Cabinet	Struture
	Swing	Automatic	Automatic	Folding	Monolith	Elegant		
Rust-proof Paint Finish	0	x	x	x	x	x	0	x
Galvanised and RAL Paint finish	0	0	x	x	x	x	0	0
RAL Paint Finish	S	S	0	0/1	0	x	S	S
Stainless Steel	0	0	0	0	0	x	0	0
Lamiera Plustificata	x	0	S	x	S	x	0	x
Laminated Plastic	x	x	S	x	x	S	x	x
Natural Alluminium	0	x	x	x	x	x	x	x
RAL Paint finish Alluminium	0	x	x	x	x	x	x	x

1 = standard RAL 9007 | 0 = optional | S = standard | x = not provided

# 05

## Accessories

### Display



**SMART**  
*standard*

Energy level display

- ✓ Car display



**TFT**  
*optional*

High-resolution display  
Available 4.3" e 2.8"

- ✓ Landing display



**SMART PLUS**  
*optional*

High-resolution display  
Available 7"

- ✓ Car display



**ICARO**  
*optional*

LCD display  
Frame or flush anti-scratch and anti-impact transparent polycarbonate screen

- ✓ Landing display

### Handrail *optional*



**STRAIGHT ENDS**

Stainless steel handrail with straight ends

- ✓ Scotch-Brite stainless steel
- ✓ Polished stainless steel



**CURVED ENDS**

Wood handrail with supports and curved ends in polished stainless steel

- ✓ Oak wood
- ✓ Beech wood

### Buttons



**STANDARD**  
*standard*

AISI 304 stainless steel button with braille.



**VANDAL-PROOF IP54**  
*optional*

Vandal-proof button with braille with degree of protection IP54.





## Cabin control panel

*optional*



### VENICE

H 1900 mm with display TFT 7"  
Solo per impianti con porte automatiche

- ✓ Black glass
- ✓ White glass



### AIDA

H 1900 mm with display TFT 7"

- ✓ Scotch-Brite stainless steel
- ✓ Polished stainless steel

## Landing control panel

*optional*



### AIDA 65

Width 65 mm.  
Available with con icaro wire display.  
Wall secured, without building work

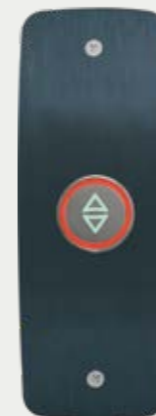
- ✓ Scotch-Brite stainless steel
- ✓ Polished stainless steel



### AIDA 85

Width 85 mm.  
Disponibile anche con display TFT verticale 4.3"  
Wall secured, without building work

- ✓ Scotch-Brite stainless steel
- ✓ Polished stainless steel



### SOFT 75

Width 75 mm.  
Available with con icaro wire display  
Possibility of box to be walled

- ✓ Scotch-Brite stainless steel
- ✓ Blu polished stainless steel



### VENICE 80

Width 80 mm.  
Available with TFT vertical display 2.8"  
Installable only with a recessed box

- ✓ Black glass
- ✓ White glass

# Handle

*optional*



## R40

Scotch-Brite stainless steel  
AISI 304

40 x 15 x L 1260



## Q20

Scotch-Brite stainless steel  
AISI 304

20 x 20 x L 320



## RC40

Scotch-Brite stainless steel  
AISI 304

40 x 10 x L 500

## T20 - T30

Scotch-Brite stainless steel  
AISI 304

∅20 x L 300  
∅30 x L 500



## TC30

Scotch-Brite stainless steel  
AISI 304

∅30 x L 500  
∅30 x L 1000

# Enabling system

*optional*

## ALPHANUMERIC KEYPAD



Metal backlit, IP 66,  
up to 2 contacts

☑ Cabin



Backlit, IP 68, single contact only  
120 x 58 x 22 mm

☑ Landing



## I-BUTTON

Vandal-resistant electronic key.  
IP51



## ENABLE KEYS

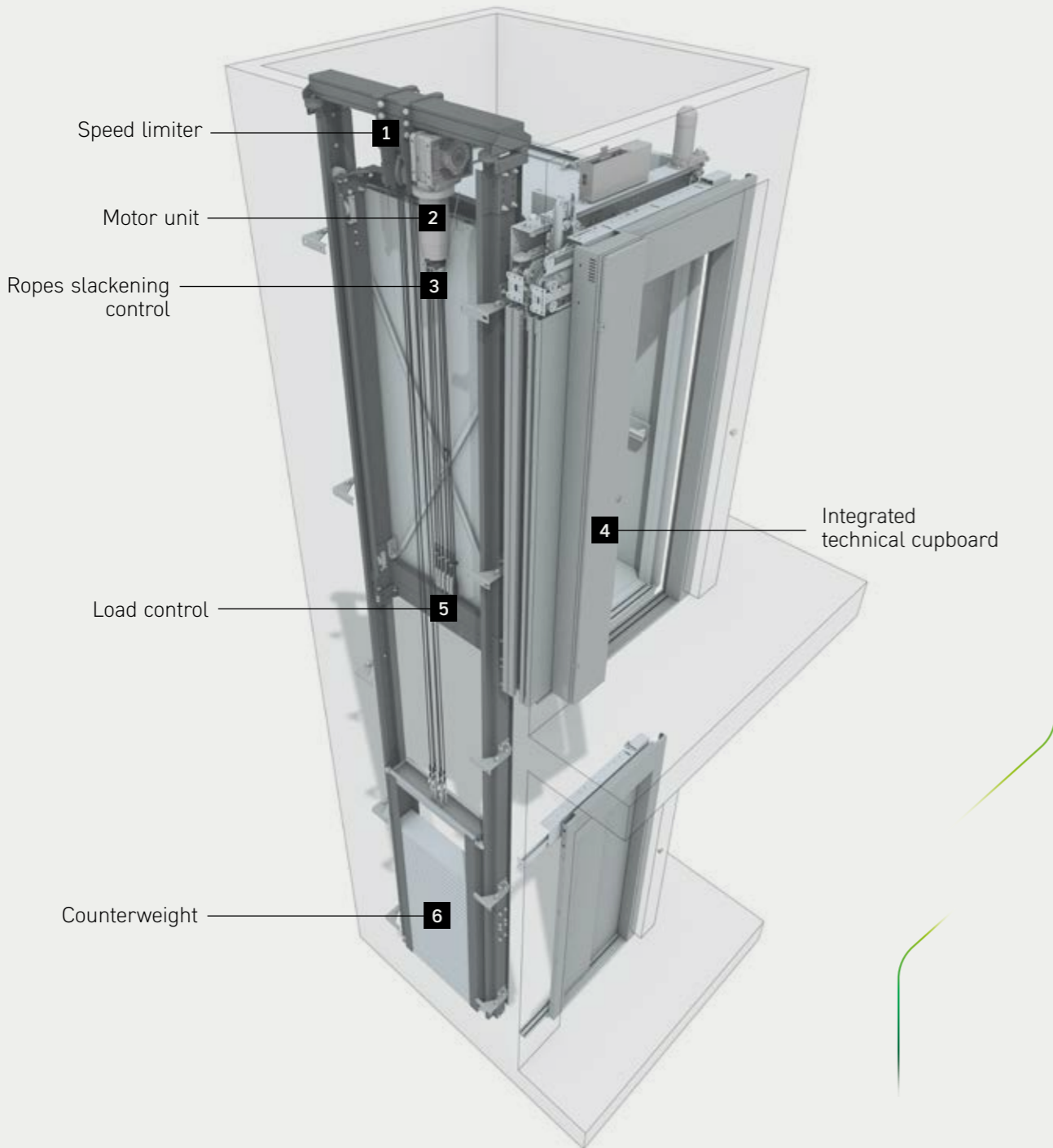
Key contact.  
IP51  
available:  
- 2 positions, 1 extraction  
- 2 positions, 2 extractions

## AUTOMATIC SWING DOOR OPENING SYSTEM



006

# Technical specifications



## Technical features

Capacity	300 kg	400 kg	500 kg
Reference legislation	Direttiva Macchine 2006/42/CE - EN81-41:2011 (where applicable)		
Capacity max (People)	4	5	6
Max Speed (m/s)	0,15	0,15	0,15
Maximum number of stops	8	8	8
Hourly insertions	45	45	45
Travel (mm)	24000	24000	24000
Headroom (mm)	2600	2600	2600
Pit (mm)	150	150	150
Maximum car's area (m <sup>2</sup> )	1,2	1,6	2
Lift power supply	battery	battery	battery
Committed power (kW)	0,13	0,23	0,23
Inrush absorption from the network (A)	0,7	2	2
Mains power supply (V)	230	230	230
Maximum travels in case of blackout <sup>1</sup>	60	45	30
Recovery energy system	standard	standard	standard
Anti Blackout System	standard	standard	standard
SOL-ARE	optional	optional	optional

<sup>1</sup> The number of travels may vary depending on the battery charge.

min. interfloor	No door	Folding door	Automatic door
With doors on opposite sides and/or adjacent <sup>1</sup> (mm)	300	150	150
With doors on the same side (mm)	H door frame + 100	H door frame + 100	H opening + 350 <sup>2</sup>

<sup>1</sup> Plants with close planes at both ends are not feasible  
<sup>2</sup> H Opening + 400 with total glass doors

## Standard headroom

Variants	Headroom (mm)	H car (mm)	H door width (mm)
Manual swing door	2600	2100	2000
Folding door	2600	2100	2000
Automatic car door <sup>1</sup>	2600	2100	2000

## Minimun headroom

Variants	Headroom (mm)	H car (mm)	H door width (mm)
Manual swing door	2400	2100	2000
Folding door	2400	2100	2000
Automatic car door <sup>1</sup>	2400	2100	2000

## Reduced headroom <sup>2</sup>

Variants	Headroom (mm)	H car (mm)	H door width (mm)
Manual swing door	2200	2000	2000
Folding door	2200	2000	1900
Automatic car door <sup>1</sup>	2300	2100	1900

<sup>1</sup> +50 on headroom for total glass

<sup>2</sup> Special mechanics Y CAB = Y CAB STD - 50

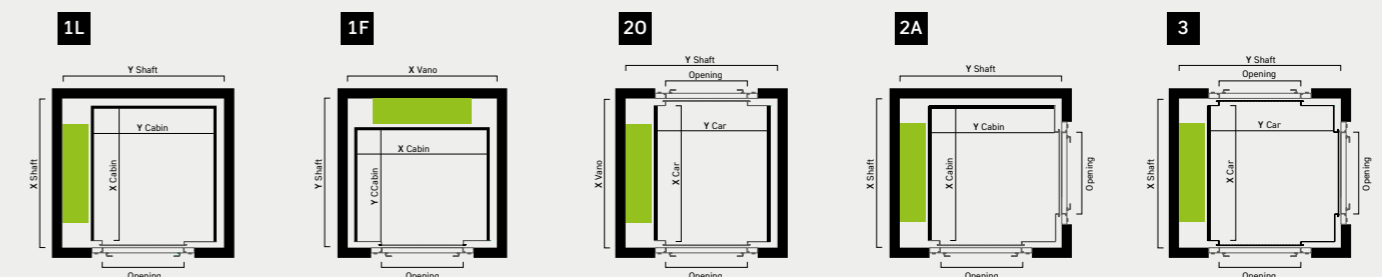
Pit 150 mm for all elevators

## No door

Capacity			Cabin				Existing shaft		Structure	
Load (kg)	People	Accessibility	X (mm)	Y (mm)	Opening (mm)	Access	X (mm)	Y (mm)	X (mm)	Y (mm)
250	3	♿	800	1200	750	1F <sup>4</sup>	970	1580	1150	1680
300	4	♿	1200	800	750	1L	1350	1190	-	-
300	4	♿	1200	850	750	1L	1350	1240 <sup>1</sup>	1460	1360 <sup>3</sup>
300	4	♿	1200	800	750	20	1340	1190	-	-
300	4	♿	1200	850	750	20	1340	1240 <sup>1</sup>	1440	1360 <sup>3</sup>
350	4	♿♿	950	1300	800	1F <sup>4</sup>	1110	1680	1200	1780
350	4	♿♿	1300	950	800	1L	1450	1340	1560	1440 <sup>2</sup>
350	4	♿♿	1300	950	800	20	1440	1340	1540	1440 <sup>2</sup>
400	5	♿	1200	1200	800	3	1340	1580	1440	1680
400	5	♿	1200	1200	800	2A	1350	1580	1460	1680
400	5	♿♿	1100	1400	900	1F <sup>4</sup>	1260	1780	1350	1880
400	5	♿♿	1400	1100	900	1L	1550	1490	1660	1590 <sup>3</sup>
400	5	♿♿	1400	1100	900	20	1540	1490	1640	1590 <sup>3</sup>
450	6	♿♿	1300	1300	900	2A	1450	1680	1560	1780
500	6	♿♿	1400	1400	900	2A	1550	1780	1660	1880
500	6	♿♿	2000	1000	850	1L	2150	1390	2260	1490 <sup>3</sup>
500	6	♿♿	2000	1000	850	20	2140	1390	2240	1490 <sup>3</sup>

<sup>1</sup> Add 30mm to Y shaft for cabinet side door | <sup>2</sup> Add 40mm to Y shaft for cabinet side door | <sup>3</sup> Add 70mm to Y shaft for cabinet side door

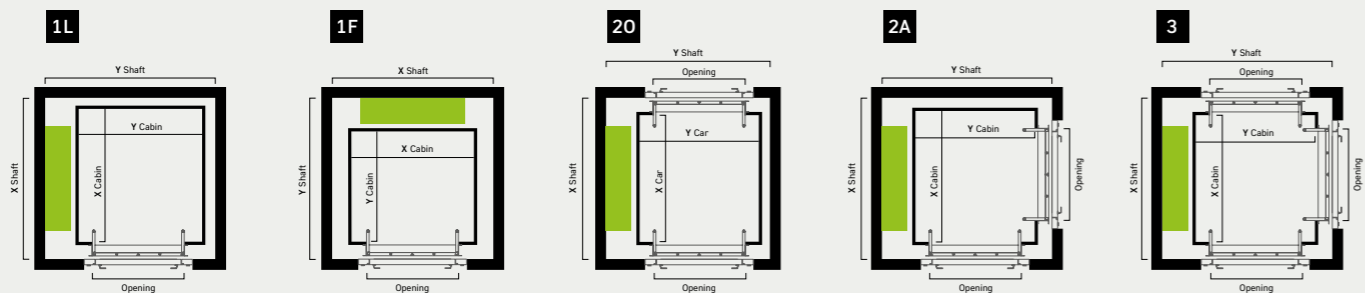
<sup>4</sup> Cabinet side door not available



# Folding door

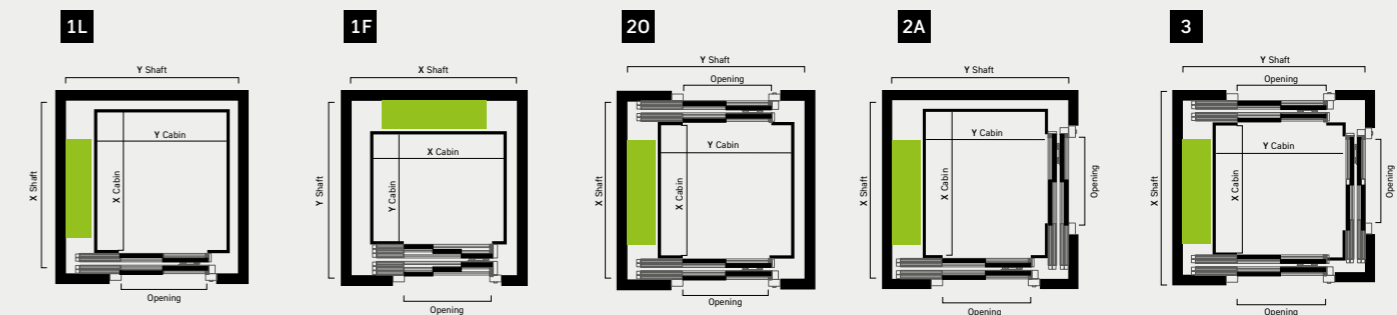
Capacity			Cabin				Existing shaft		Structure	
Load (kg)	People	Accessibility	X (mm)	Y (mm)	Opening (mm)	Access	X (mm)	Y (mm)	X (mm)	Y (mm)
250	3	♿	800	1200	750	1F <sup>4</sup>	970	1570	1150	1670
300	4	♿	1200	800	750	1L	1340	1190	-	-
300	4	♿	1200	850	750	1L	1340	1240 <sup>1</sup>	1450	1360 <sup>3</sup>
300	4	♿	1200	800	750	20	1320	1190	-	-
300	4	♿	1200	850	750	20	1320	1240 <sup>1</sup>	1430	1360 <sup>3</sup>
350	4	♿♿	950	1300	800	1F <sup>4</sup>	1110	1670	1200	1770
350	4	♿♿	1300	950	800	1L	1440	1340	1550	1440 <sup>2</sup>
350	4	♿♿	1300	950	800	20	1420	1340	1530	1440 <sup>2</sup>
400	5	♿♿	1100	1400	900	1F <sup>4</sup>	1260	1770	1350	1870
400	5	♿	1200	1200	800	3	1320	1570	1430	1670
400	5	♿	1200	1200	800	2A	1340	1570	1450	1670
400	5	♿♿	1400	1100	900	1L	1540	1490	1650	1590 <sup>2</sup>
400	5	♿♿	1400	1100	900	20	1520	1490	1630	1590 <sup>2</sup>
450	6	♿♿	1300	1300	900	2A	1440	1670	1550	1770
500	6	♿♿	1400	1400	900	2A	1540	1770	1650	1870
500	6	♿♿	2000	1000	850	1L	2140	1390	2250	1490 <sup>2</sup>
500	6	♿♿	2000	1000	850	20	2120	1390	2230	1490 <sup>2</sup>

<sup>1</sup> Add 30mm to Y shaft for cabinet side door | <sup>2</sup> Add 40mm to Y shaft for cabinet side door | <sup>3</sup> Add 70mm to Y shaft for cabinet side door  
<sup>4</sup> Cabinet side door not available



# Automatic door

Capacity			Car				Existing shaft		Structure	
Load (kg)	People	Accessibility	X (mm)	Y (mm)	Opening (mm)	Access	X (mm)	Y (mm)	X (mm)	Y (mm)
300	4	♿	1000	1200	750	1F	1170	1820	1320	1920
300	4	♿	1200	900	750	1L	1500	1300	1610	1440
300	4	♿	1200	900	750	20	1640	1300	1740	1440
350	4	♿♿	1000	1300	750	1F	1170	1920	1320	2020
350	4	♿♿	1300	950	750	1L	1600	1340	1710	1440
350	4	♿♿	1300	950	750	20	1740	1340	1840	1440
400	5	♿♿	1100	1400	800	1F	1260	2020	1390	2120
400	5	♿♿	1200	1200	800	3	1640	1730	1740	1830
400	5	♿	1200	1200	800	2A	1500	1730	1610	1830
400	5	♿	1400	1100	800	1L	1700	1490	1810	1590
400	5	♿♿	1400	1100	800	20	1840	1490	1940	1590
450	6	♿♿	1300	1300	800	2A	1600	1830	1710	1930
500	6	♿♿	1400	1400	800	2A	1700	1930	1810	2030
500	6	♿♿	2000	1000	750	1L	2300	1390	2410	1490
500	6	♿♿	2000	1000	750	20	2440	1390	2540	1490



## The smallest

### Manual swing door

Capacity			Cabin				Existing shaft		Structure	
Load (kg)	People	Accessibility	X (mm)	Y (mm)	Opening (mm)	Access	X (mm)	Y (mm)	X (mm)	Y (mm)
150	2	♿	600	550	500	1L	750	940	830	1030
150	2	♿	600	600	550	1F	770	980	830	1070
150	2	♿	600	550	500	20	740	940	820	1030
150	2	♿	600	550	500	2A	750	930	-	-
150	2	♿	600	700	550	2A	750	1080	830	1170
150	2	♿	600	550	500	3	740	930	-	-
150	2	♿	600	700	550	3	740	1080	820	1170

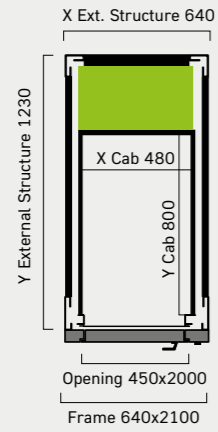
### Automatic car door

Capacity			Cabin				Existing shaft		Structure	
Load (kg)	People	Accessibility	X (mm)	Y (mm)	Opening (mm)	Access	X (mm)	Y (mm)	X (mm)	Y (mm)
150	2	♿	670	750	550	1F	900	1370	970	1460
150	2	♿	700	600	550	1F	900	1220	970	1310
150	2	♿	700	600	500	2A	1020	1150	1100	1240
150	2	♿	750	550	500	1L	1070	940	1150	1030
150	2	♿	750	550	500	20	1220	940	1300	1060
150	2	♿	750	600	500	2A	1070	1150	1150	1240
150	2	♿	750	600	500	3	1220	1145	1300	1235

### Folding door

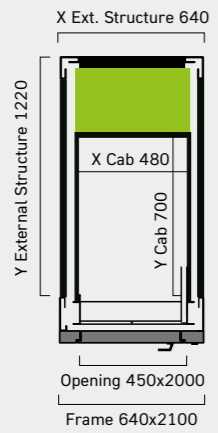
Capacity			Cabin				Existing shaft		Structure	
Load (kg)	People	Accessibility	X (mm)	Y (mm)	Opening (mm)	Access	X (mm)	Y (mm)	X (mm)	Y (mm)
150	2	♿	700	550	500	20	820	940	900	1030
150	2	♿	700	550	500	1L	840	940	920	1030
150	2	♿	600	700	550	1F	770	1070	840	1160
150	2	♿	750	650	500	2A	900	1020	970	1110
150	2	♿	850	650	500	3	970	1020	1050	1160

# Specials



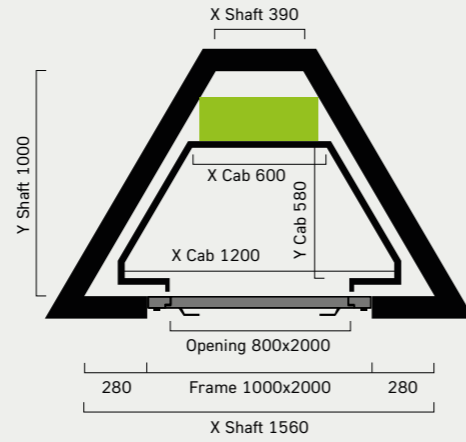
## NO DOOR

Minimum headroom 2600m



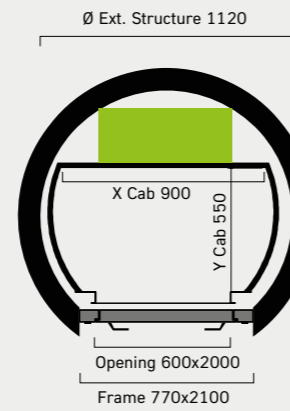
## FOLDING DOOR

Minimum headroom 2600m



## TRAPEZODALE

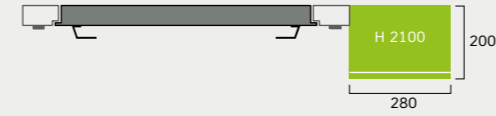
Minimum headroom 2600m



## ROUND

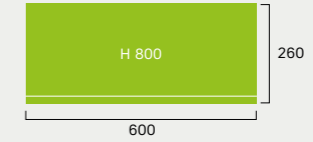
Minimum headroom 2600m

# Technical cabinet



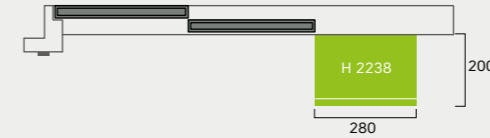
## SWING DOOR SIDE

Finishes:  
 As per landing door



## TO THE WALL H800

Finishes:  
 RAL paint 7035



## AUTOMATIC DOOR SIDE <sup>1</sup>

Finishes:  
 As per landing door



## TO THE WALL H 2100<sup>1</sup> o H2238<sup>2</sup>

Finishes:  
 As per landing door  
 If painted metal shaft: the same colour of the shaft

<sup>1</sup> Cannot be done with Glass & Metal, Total Glass, 3AT doors, with non-standard door height and EI

<sup>1</sup> For swing doors' lifts only  
<sup>2</sup> For automatic doors' lifts only

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CAT M-EN1124