



Committed to you



I Q N

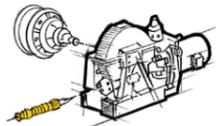
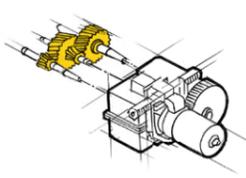
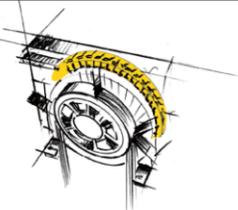
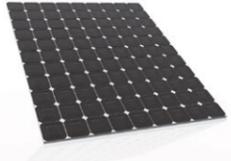
GREEN - SOLAR

A I Q N Green & Solar

B
C
D
E
F
G

0% CO₂ emissions

is now possible with ION

	1960	1970	1980	1990	2000	2010	2018
Drive system	2-speed control		Variable voltage control		Variable frequency control		ION Green
Control circuit	Relay circuit			Micro-computer			ION Solar
Traction machine							 + 
Engine room	With engine room					Without engine room	
Electricity consumption		CO ₂ emissions 5.380 kg/year 100%	93%	CO ₂ emissions 3.980 kg/year 74%	37%	CO ₂ emissions 1.610 kg/year 30%	CO ₂ emissions 753 kg/year 14%
							CO ₂ emissions 0 kg/year 0%

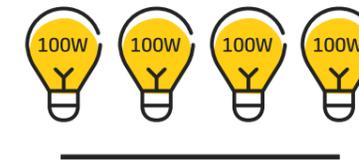
At FAIN we are constantly innovating and developing new clean and energy-saving technologies, and thanks to this, we have created a revolutionary elevator: the ION GREEN with 4 fundamental and innovative advantages:

It plugs into the 230 V network, just like a standard electrical appliance



Forget about expensive three-phase installations or reduce the contracted power capacity of your building. ION GREEN does not need a specific electrical installation. It simply connects like a standard electrical appliance to the 230 V single-phase network.

This means considerable savings on building projects and faster installation in the case of existing buildings.



Only needs 400W of power to operate



ION Green has obtained the highest energy efficiency rating according to the ISO 25745 standard.

The new ION traction technology, combined with the ultra-light materials we have used to build it, allows us to achieve record energy savings.

With only 400 W of consumption, the ION GREEN by FAIN saves you practically 100% of the fixed power charge on your monthly electricity bill, as there's no need to contract a higher power capacity to operate the elevator.



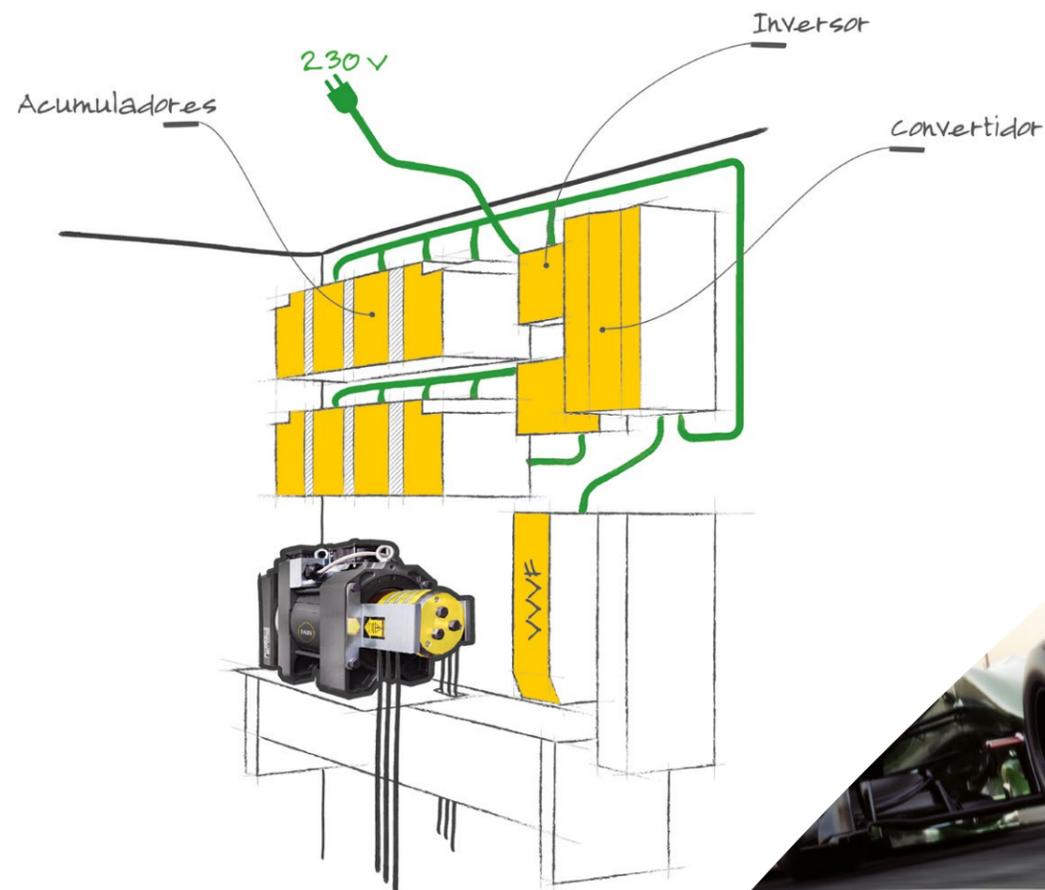
The ION GREEN by FAIN is much more energy efficient, which allows CO2 emissions to be reduced. This contributes to compliance with the standards established for environmentally sustainable buildings.



Safety in the event of a power cut

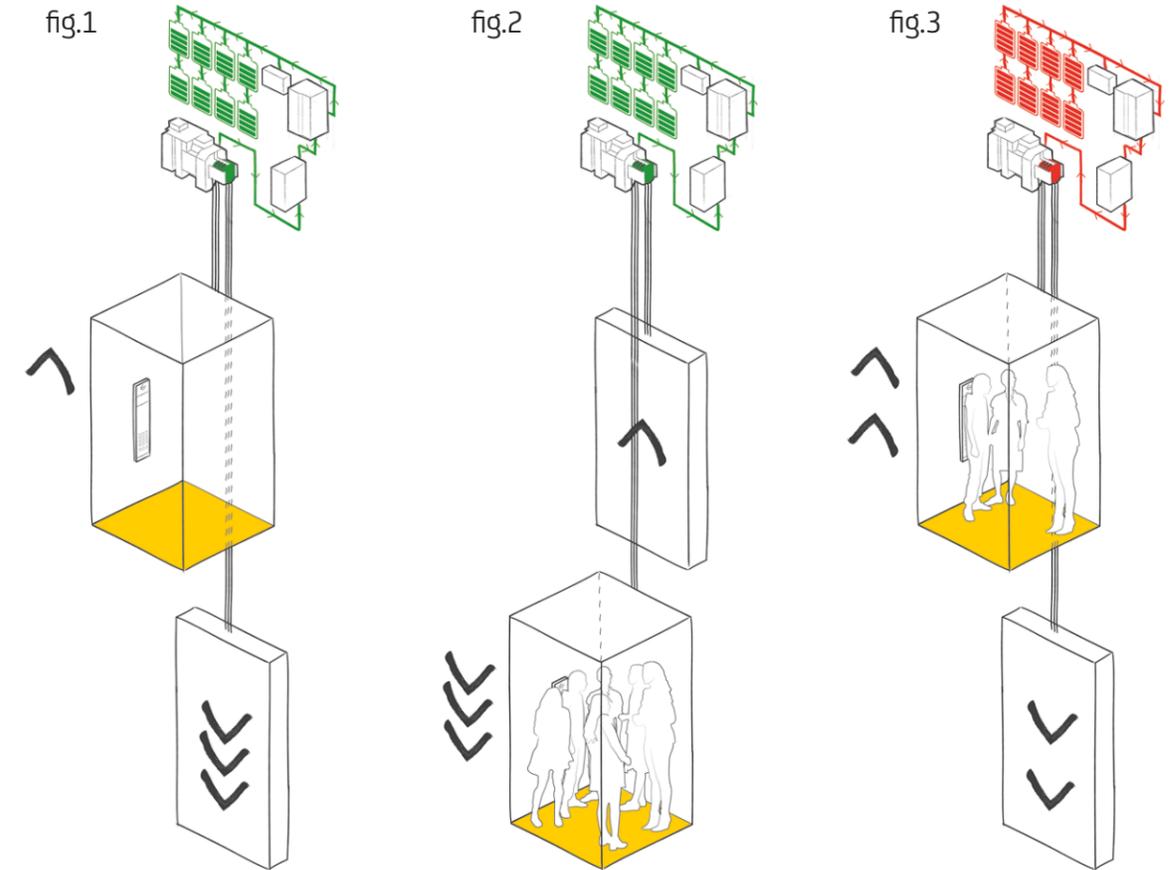
Even in the event of a power outage, the ION GREEN by FAIN keeps working safely as normal, and can make over 100 journeys thanks to the energy stored in its accumulators. This not only guarantees the permanent mobility of persons with reduced mobility, but also eliminates the risk of passengers being trapped in the event of a power outage.

Can do up to 100 journeys without a power supply



It regenerates energy

The ION GREEN has a built-in KERS system, like a Formula 1 car. An energy recovery system that takes advantage of the power generated by the elevator's movement.



The elevator generates energy each time it goes up empty (fig. 1), goes down full (fig. 2), or stops, and stores this in its accumulators. This energy is then used for the next journey (fig. 3), thus reducing consumption.



All this translates to saving you money



With the ION Gr**EE**N will save up to 96% on your electricity bill compared to a conventional hydraulic lift and up to 86% compared to a conventional electric elevator*.

*Combined savings on contracted power supply and consumption.

The ION Gr**EE**N is also equipped with a series of LED lights that switch off automatically for bigger energy savings.

Example: of saving

Annual energy consumption								
Elevator	Hydraulic		2-speed electric elevator		ION Green		ION Solar	
	Power capacity contracted	Consumption	Power capacity contracted	Consumption	Power capacity contracted	Consumption	Power capacity contracted	Consumption
6 person	16 kW	2,037 kWh/year	9.2 kW	1,190 kWh/year	0	533 kWh/year	0 kW	314 kWh/year
8 person	17 kW	2,198 kWh/year	10 kW	1,284 kWh/year	0	565 kWh/year	0 kW	334 kWh/year

Comparative table of required contracted power and motor consumption based on elevator type. These values are for informational purposes only and may vary depending on installation conditions. Values are based on usage category 2 according to VDI 4707 and ISO 25745 standards (average travel time of 30 minutes per day and 200 trips per day). Nominal speed of the hydraulic elevator: 0.63 m/s; Nominal speed of the 2-speed elevator and the FAIN ION & Green ION: 1 m/s.

Annual energy cost								
Elevator	Hydraulic		2-speed traction elevator		ION Green		ION Solar	
	Power capacity contracted	Consumption						
6 person	€1,750	€362	€481	€212	€0	€95	€0	€56
8 person	€1,859	€391	€507	€228	€0	€100	€0	€60

The example was calculated using the following data:
Electricity prices from official tariffs 2.0 and 3.0.
Price per kW/year contracted: 42 euros. Price per kWh/year contracted: 0.14 euros.

Annual cost savings with ION Green				
Elevator	Compared to Hydraulic		Compared to 2-speed electric elevator	
	Amount	Percentage	Amount	Percentage
6 person	€1.685,53	93%	€490,08	79%
8 person	€2.064,34	94%	€534,12	80%

Annual cost savings with ION Solar				
Elevator	Compared to a hydraulic elevator		Compared to a 2-speed electric elevator	
	Amount	Percentage	Amount	Percentage
6 person	€2,056	97%	€637	92%
8 person	€2,190	97%	€675	92%

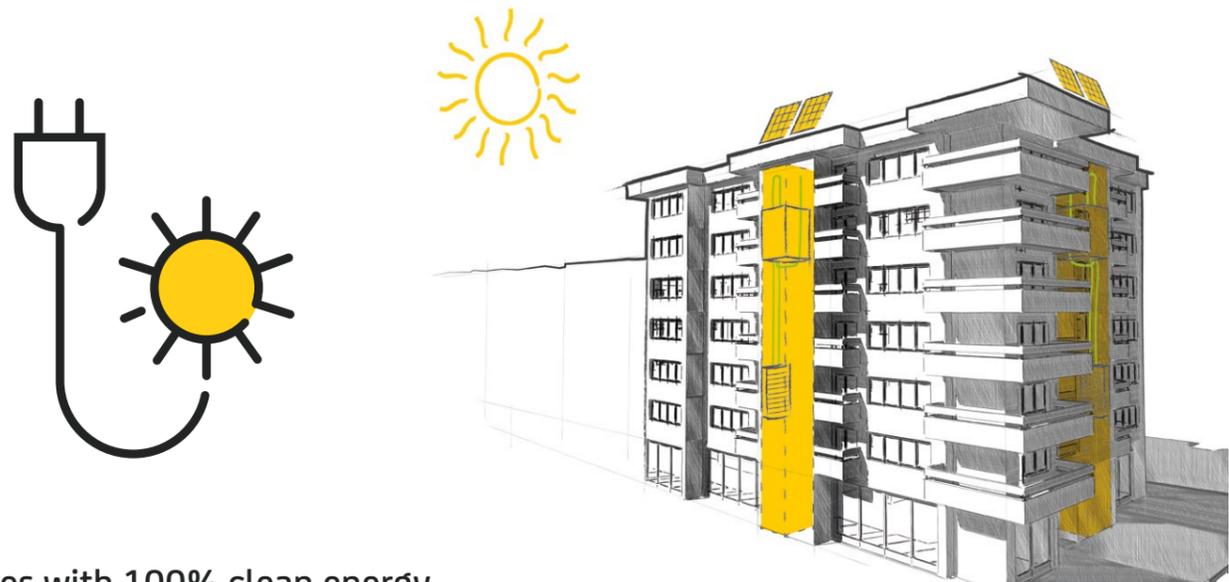
ION SOLAR 0% CO₂ emissions

The socially responsible elevator

What's more, GREEN ION by FAIN is compatible with photovoltaic solar panels*. These will provide you with all the energy you need to operate.

Let's work together to reduce global warming and protect the future of our planet

And by the way, forget about your energy bill!



Operates with 100% clean energy.
Completely eliminate CO₂ emissions into the atmosphere

* Photovoltaic solar panels must be capable of generating 600 W of peak solar power.

Sustainability throughout its entire life cycle

At FAIN, we always take the environment into account in our products.

Sustainability guaranteed throughout the product's lifespan:

- In its design, no materials or production processes harmful to the environment were used.
- Oils have been eliminated from maintenance, and components that guarantee minimal energy consumption have been used.
- Recyclable materials have been used to minimize the product's environmental impact when it becomes obsolete.

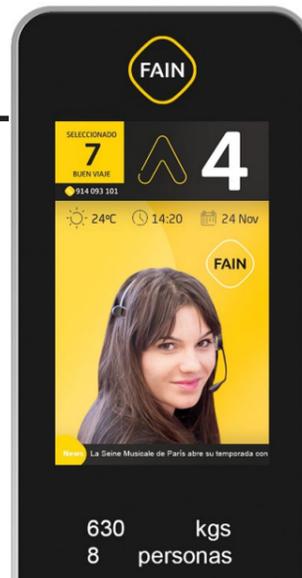


FAIN 360 Connectivity^o

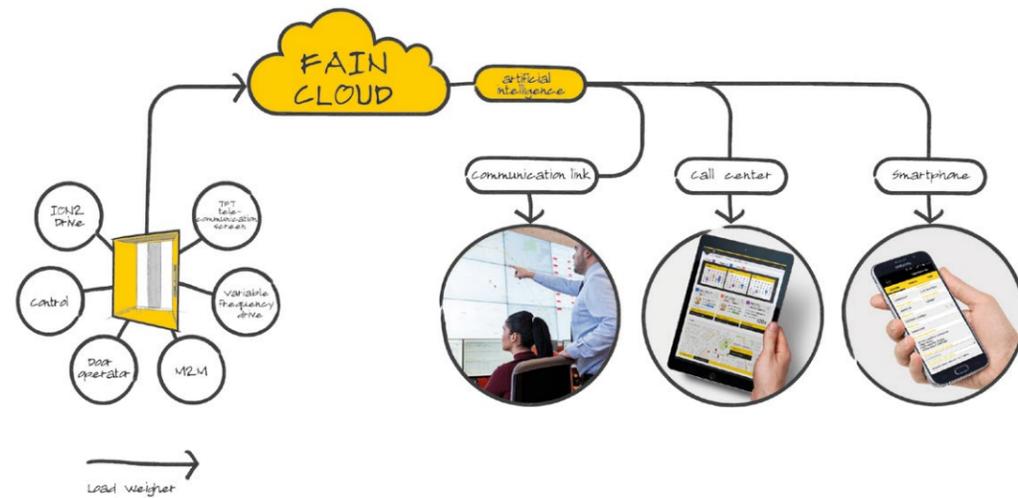
Growing towards a better world

The FAIN ION is equipped as standard with a **10-inch TFT display** that provides general information and entertainment.

The FAIN 360° Connectivity system is in **continuous communication with our Customer Service Center and our technicians, monitoring the elevator's operation 24 hours a day.** Direct videoconference connection provides personalized and friendly service.



FAIN Cloud



On the FAIN 360° customer platform, you can consult relevant information in real time about the status of your elevator and the maintenance service we are providing.

Space saving



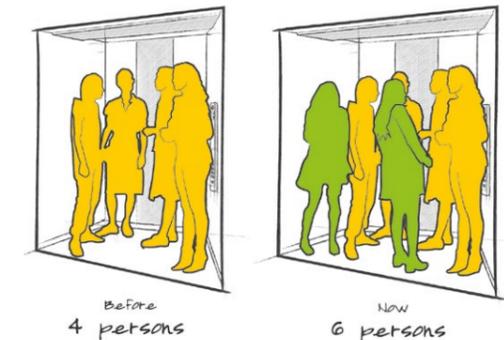
We have reduced the size of the machinery by 70% and the weight by 50%.



The control box is now located in the door frame on the top floor

Less space taken up by parts, more space for passengers

Cars up to 25% larger in the same shaft



Dimensions of the shaft* width x depth	BEFORE		NOW	
	Passengers in car	Capacity	Passengers in car	Capacity
1,550 x 1,500 mm	5	375 kg	6	450 kg
1,600 x 1,650 mm	6	450 kg	8	630 kg
1,650 x 1,750 mm	8	630 kg	9	675 kg

*In cars with single boarding and speed of 1 m/s

Cabin design

Comfort Model

A lift is a key element in the category and perception of a building. That is why, FAIN has paid special attention to designing modern and elegant cabins and high-end button panels, equipped with the latest technology. Choose between three different décor lines with different styles and three ranges of finish.



Finishes

Walls: Arctic Glacier White
Skirting: 50 mm black
Mirror: 600 mm silver colour
Ceiling: Black colour

Light: White LED
Handrails: Rounded finish in black
Flooring: Black galaxy resin
Collection: Tecno



Finishes

Walls: Stainless steel
Skirting: 50 mm black
Mirror: 600 mm silver colour
Ceiling: Black colour

Light: White LED
Handrails: Straight in bright steel finish
Flooring: Cloud resin
Collection: Metal

Cabin design

Elegance Model



Finishes

Walls: Canadian Oak with hairline satin-finish steel splice joints
Skirting: 50 mm in hairline satin-finish steel
Mirror: 600 mm silver colour
Ceiling: BlackHairline satin finish

Light: White LED
Handrails: Straight in bright steel finish
Flooring: Malm ceramic black
Collection: Eco-friendly materials

Cabin Design

Elite Model



Finishes

Walls: Cherry
Skirting: 50 mm in hairline satin-finish steel
Mirror: 600 mm silver colour
Ceiling: Embellished with a steel frame

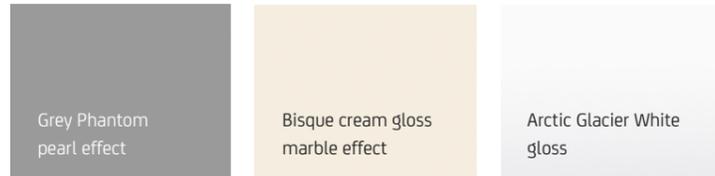
Light: White LED
Handrails: Curved in matt steel
Flooring: Uni Ice Ceramic
Collection: Eco-friendly materials

Finishes

TECNO COLLECTION Single-colour walls



The design is enhanced with modern materials that create an avant-garde setting. The glossy coloured laminates give the lift cabin a spacious, bright and modern feel.



ECO-FRIENDLY MATERIALS Single-colour walls



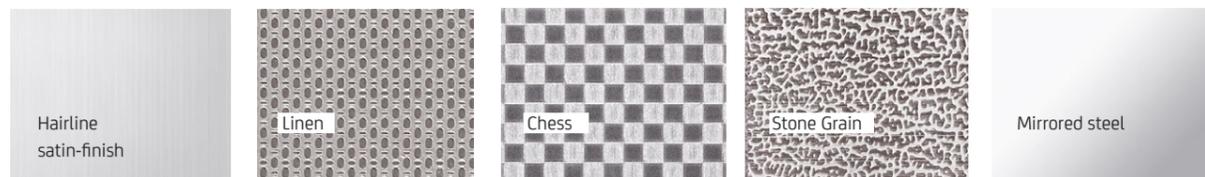
Natural materials are combined with ultra-low powered LED to achieve clean, harmonious, natural designs.



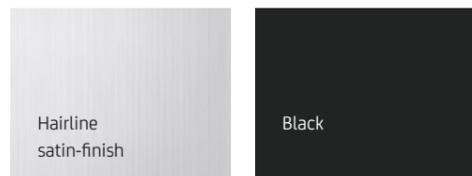
METAL COLLECTION Single-/Two-colour walls



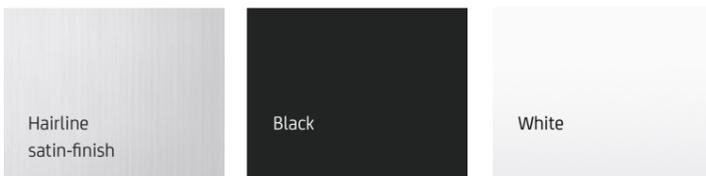
Straight lines highlight metallic textures giving the lift cabin a contemporary and durable look.



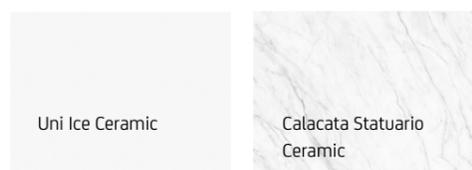
Skirting and joints



Ceiling



Flooring



All colors shown in this catalog are for guidance only.
Based on Fain Ascensores' R&D policy, the right is reserved to make changes at any time to the materials and specifications of the models described without prior notice, which may result in the specifications, colors, designs or other characteristics not always matching the actual ones, as well as not guaranteeing their availability.

Handrails



Straight in gloss finish steel



Straight with curved ends in matte or black steel



Ceilings



Ceiling with LED down-lights finished in standard colour or steel



Embellished ceiling, finished with a hairline joint in gloss-finish steel or colour



Button panel inside cabin

Keypad



Frieze



Finishes

Type: Floor keypad
Finish: Methacrylate and stainless steel
Dimensions: 190 x 1.050 x 21,7 mm

Type: Frieze floor panel
Finish: Brushed stainless steel
Dimensions: 190 x 1.800 x 25 mm

Registration: Visual and acoustic
Light: White LED
Display: TFT 10"
Buttons: Stainless steel anti-tamper finish.

Button panels for exteriors and displays



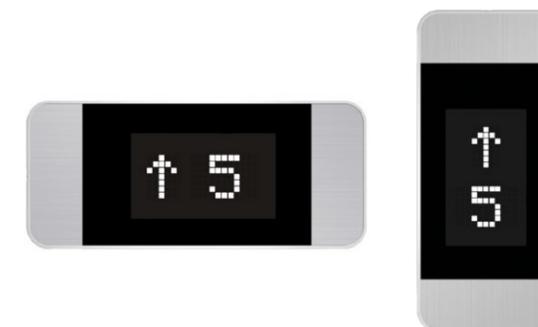
Type: Floor button panel
with 1 or 2 buttons / keyhole
Finish: Methacrylate and stainless steel
Buttons: Stainless steel anti-tamper finish
Registration: Visual and acoustic

LED: White LED
Dimensions: 80 x 185 x 12 mm
Vandal-proof* (Category 1) 80 x 185 x 25 mm



Type: Floor button panel
with 1 or 2 buttons / keyhole
Finish: Methacrylate and stainless steel
Buttons: Stainless steel anti-tamper finish
Registration: Visual and acoustic

Registration: White LED
Display: Matrix of LED points white
Dimensions: 80 x 280 x 12 mm
(Duplex) 145 x 350 x 12mm



Type: Matrix floor display
Finish: Methacrylate and stainless steel
Indications: Floor and arrows for direction of travel
Light: White LED
Dimensions: 185 x 80 x 12 mm

* Optional

Button panel for exteriors and displays



Type: Floor button panel with 1 or 2 buttons / keyhole
 Finish: Stainless Steel
 Buttons: Stainless steel anti-tamper finish

Registration: Visual and acoustic
 LED: White LED
 Dimensions: 80 x 185 x 15 mm
 Vandal-proof* (Category 1) 80 x 185 x 25 mm



Type: Floor button panel with 1 or 2 buttons / keyhole
 Finish: Stainless Steel
 Buttons: stainless finishes
 80 x 280 x 15mm
 Anti-vandal stainless steel finishes.
 80 x 280 x 25mm

Registration: Visual and acoustic
 Registration: White LED
 Display: Matrix of LED points white
 Dimensions: 145 x 280 x 15 mm
 Vandal-proof* (Category 1) 145 x 280 x 25 mm



Type: Matrix floor display
 Finish: Stainless steel
 Indications: Floor and arrows for direction of travel
 Light: White LED
 Dimensions: 185 x 80 x 15 mm
 Vandal-proof* (Category 1) 185 x 80 x 25 mm

* Optional

Dimensions of shaft

Lift shaft dimensions SCM ION Green & ION Solar (in mm.)

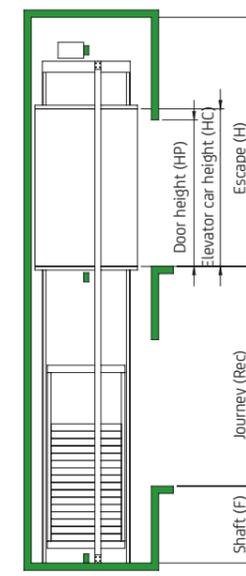
Capacity / Load	Cabin (AC x FC)	Hollow (width x depth)		PPL	New construction (EN81.50 & EN81.20)	
					Pit	Flight
375 kgs / 5 persons	900 x 1.200	1 acc	1.450 x 1.450	700-25	1.050	3.400
		2 acc a 180°	1.450 x 1.580			
450 kgs / 6 persons	1.000 x 1.250	1 acc	1.550 x 1.500	800-25		
		2 acc a 180°	1.550 x 1.630			
450 kgs / 6 persons	1.000 x 1.300	1 acc	1.550 x 1.550	800-25		
		2 acc a 180°	1.550 x 1.680			
525 kgs / 7 persons	1.100 x 1.300	1 acc	1.650 x 1.550	800-25 / 900-25		
		2 acc a 180°	1.650 x 1.680			
630 kgs / 8 persons	1.100 x 1.400	1 acc	1.650 x 1.650			
		2 acc a 180°	1.650 x 1.780			

* For non-standard dimensions, please consult the technical sales department.

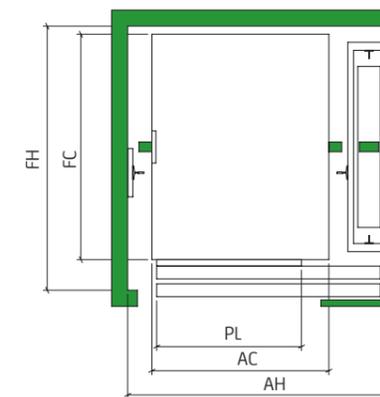
** Add 100 mm of gap width for installations with counterweight wedging.

*** The 3,400 level is always free, excluding fixing elements, hooks or beams.

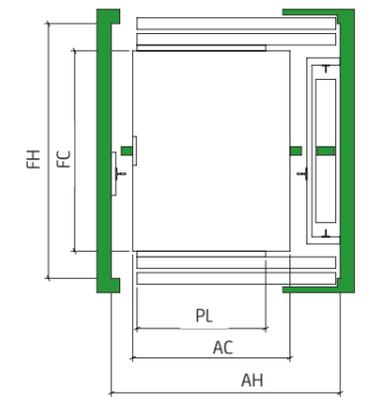
Vertical section



Single boarding



Double boarding at 180°



SPECIFICATIONS

Nominal charge	375-630 kg	Elevator car height	2,100 mm (standard)
	5-8 persons		Max. 2,200 mm
Journey	Max. 33 m	Traction system	Lift without machine room, eco-friendly machine with no gearbox, frequency variation in closed loop, 2:1 suspension
	Max. 11 stops		
Boarding	Single or double Double boarding at 180°	Traction	Polymer cables
Door width	700 mm	Speed	1 m/s
	800 mm		
	900 mm		
Door height	2,000 mm (standard)	Manoeuvre	Collective going down, up and down Group operation up to 4 lifts
	Max. 2,100 mm (optional)		

ION THE NEXT GENERATION OF ELEVATORS

Characteristics and options

Maneuver options		Tecno finishes line	■	Accessibility	
Selective downhill section	■	Ecomaterials and Metal Finishing Lines	▲	Double boarding at 180°	▲
Group operation up to 4 elevators	▲	Ceramic finish floors	▲	Inductive loop for hearing aids	▲
Selective uphill and downhill	▲	Cabin height up to 2,100 mm	■	Adjustable door opening and closing time	▲
Automatic return of cabin to main floor	▲	Cabin height up to 2,200 mm	▲	Door opening and closing button	■
Uninterrupted automatic operation	▲	Resin-finished floor	■	Audible indicator for floor, direction and door status	■
Interface with building management system	▲	Floor prepared for customer supply up to 12 mm	■	Plant access key / reservation maneuver	▲
Maneuver integrated into the door frame	■	Full height mirror, 600 mm wide	■	EN 81/70 Compliance Package	▲
Floor access code (telephone keypad)	■	Hairline satin stainless steel cabin doors	■		
Connection to generator / emergency power	▲	Floor doors in painted steel (RAL 7032)	■	Performance	
Silent operation without contactors	■	Half-height glazed back wall	▲	High-traffic doors	▲
Independent service	▲			Remote monitoring and diagnostics	▲
VIP call center service	▲	Cabin button panel			
		Drum-shaped push-button panel, with conventional push-button arrangement, with vandal-proof option	■	Security	
Energy savings				Manual evacuation	■
ION2 Drive Energy Regeneration	▲	Second cabin button panel on the opposite side	▲	Automatic evacuation to the nearest floor	▲
Automatic on/off switch for cabin lights	■	Cabin control panel with white LED matrix display	■	Overload detection and visualization in cabin	■
Energy-efficient LED lighting	■	Cabin control panel with 10.1" TFT display	▲	Two-way communication with our Customer Service Center	■
Oil-free, gearless permanent magnet machine	■	Destination plant indicator on standard 10" TFT display	▲	Alarm with integrated monitoring	■
				Firefighter maneuver EN 81/73	▲
Design		Floor button panels		Cabin emergency light	■
Counterweight parachute	▲	Visual and acoustic call recognition	■	Infrared barrier for cabin access	■
Curved design handrail	■	Key call unlock	▲	DYNAFAIN Traction Cable Monitoring System	■
Straight design handrail	▲	Position indicator	▲		
Nuanced LED lighting	▲	Arrow direction indicator	▲	Connectivity	
Comfort Decor Line	■	Wall mounted	■	FAIN 360° connectivity system	■*
Elegance and Elite decoration lines	▲	Mounted on the door frame	▲	Access to the FAIN 360° client platform	■*
				Video call	■*

- Standard
- ▲ Optional

* Only accessible with FAIN maintenance contract

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Committed to you

