




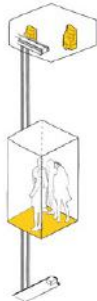

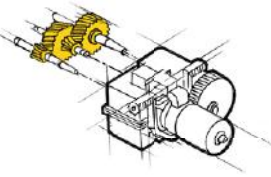
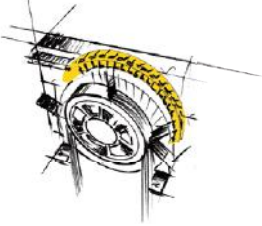

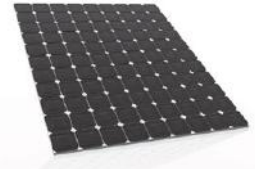
IN

GREEN - SOLAR



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	ION Solar
Control circuit	Relay circuit				Microcomputer					
Traction system										
Machine room	With machine room						Without machine room			
Electricity consumption		<div>CO₂ emissions 5.380 kg/year 100%</div>	→	<div>CO₂ emissions 3.980 kg/year 74%</div>	→	<div>CO₂ emissions 1.610 kg/year 30%</div>	→	<div>CO₂ emissions 753 kg/year 14%</div>	→	<div>CO₂ emissions 0 kg/year 0%</div>
			93%	37%		32%				

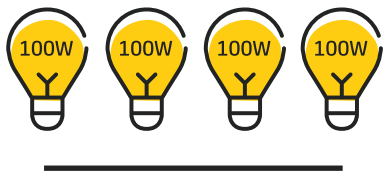
At FAIN we are constantly innovating and developing new clean and energy-saving technologies, and thanks to this, we have created a revolutionary elevator: the ION GREEN with 4 fundamental and innovative advantages:

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

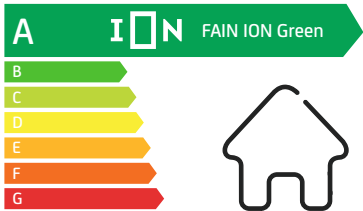


Forget about expensive three-phase installations or reduce the contracted power capacity of your building. ION GREEN does not need a specific electrical installation. It simply connects like a standard electrical appliance to the 230 V single-phase network.

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.



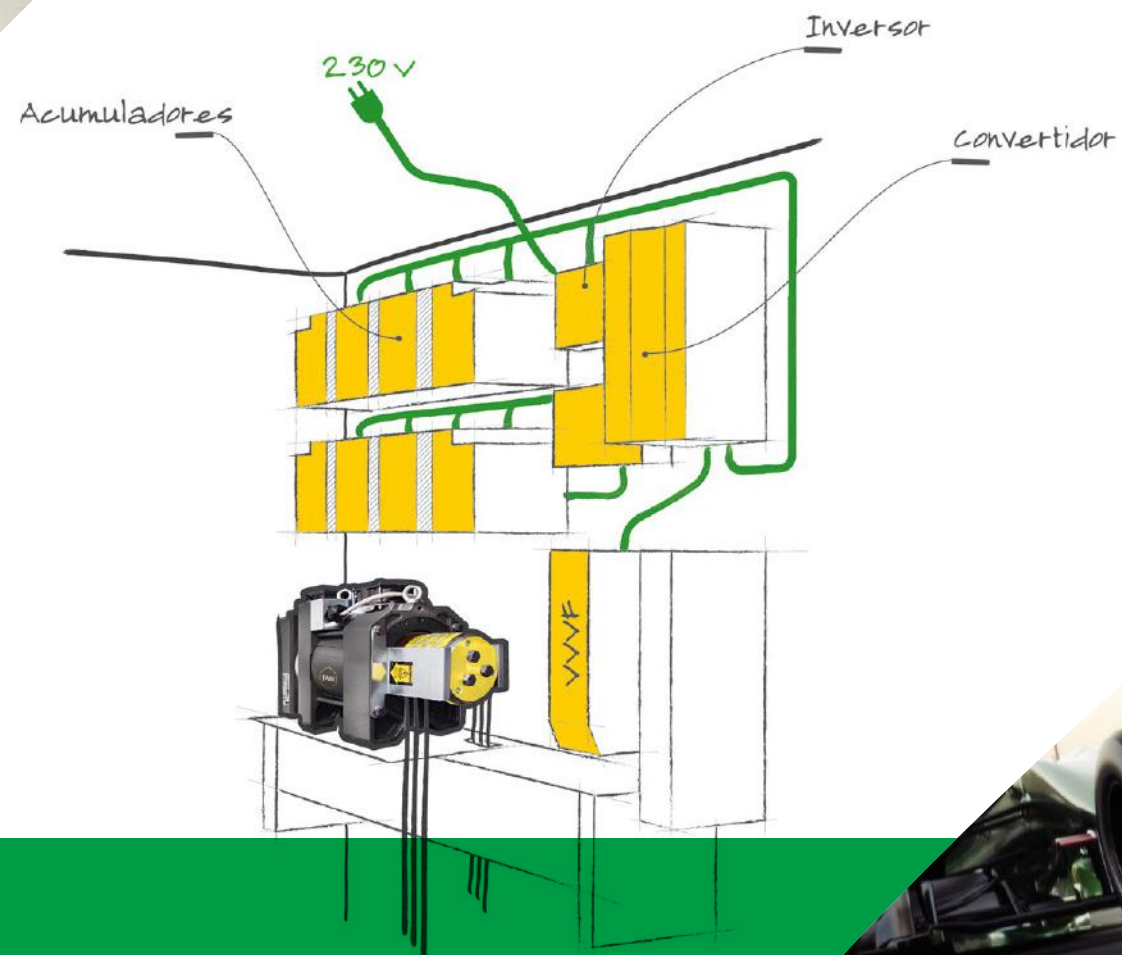
The ION GREEN by FAIN is much more energy efficient, which allows CO2 emissions to be reduced .
This contributes to compliance with the standards established for environmentally sustainable buildings.

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.

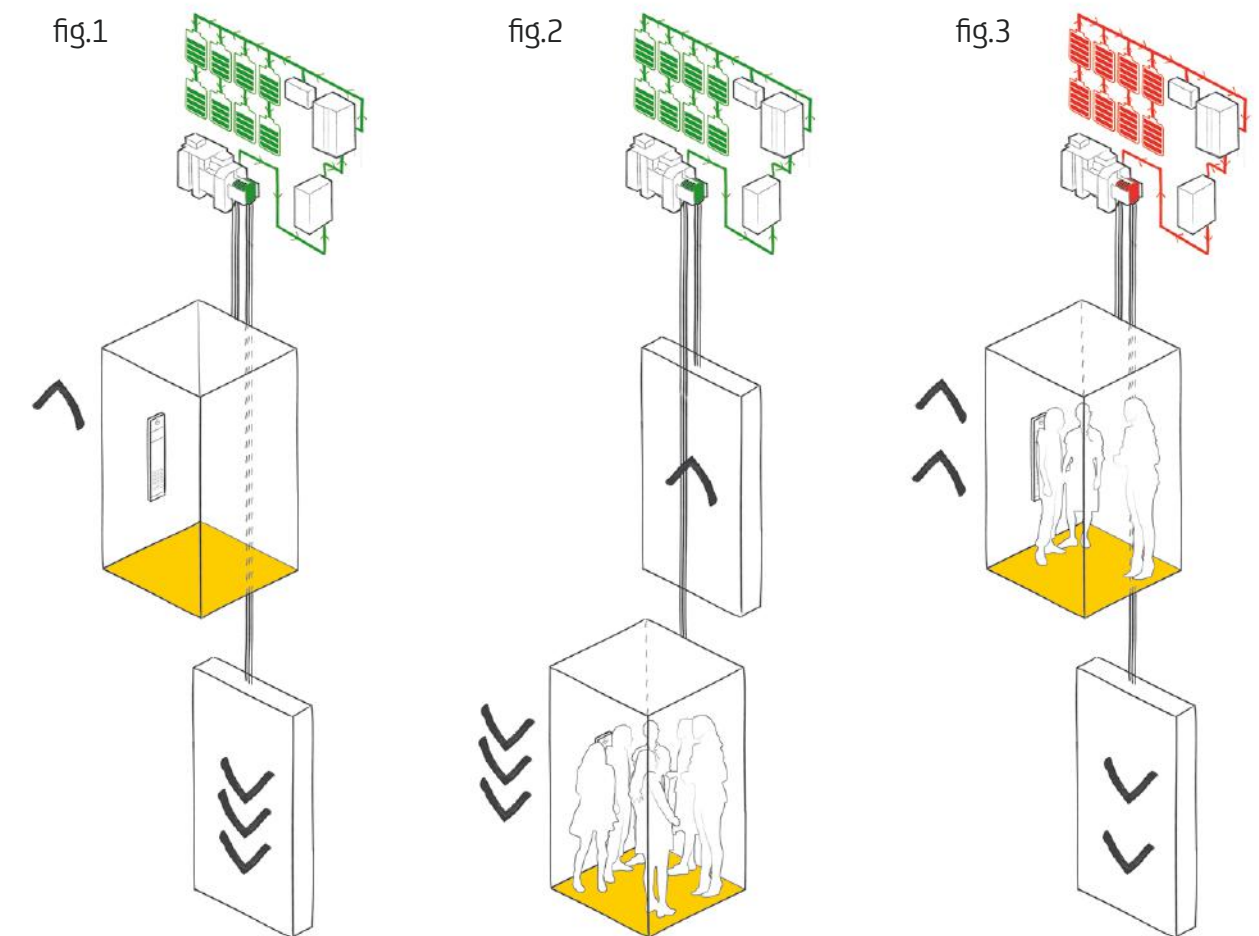
This not only guarantees the permanent mobility of persons with reduced mobility, but also eliminates the risk of passengers being trapped in the event of a power outage.

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



Example:
of **saving**

Annual energy consumption								
Elevator	Hydraulic		2-speed electric elevator		FAIN ION Green		Fain 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

Comparison of the contracted power capacity required and motor consumption by type of elevator.
Information values may vary depending on installation conditions. Values based on use category 2 as per standards VDI 4707 and ISO 25745 (average journey time 30 min. per day and 200 journeys per day).
Nominal hydraulic elevator speed: 0.63 m/s; Nominal speed of 2-speed elevator and FAIN ION & Green ION: 1 m/s.

Annual energy cost								
Elevator	Hydraulic		2-speed traction elevator		FAIN ION Green		Fain ION Solar	
	Power capacity contracted	Consumption	Power capacity contracted	Consumption	Power capacity contracted	Consumption	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

Example calculated based on the following data:
Electricity prices for 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 FAIN ION Green				
Elevator	Compared to Hydraulic		Compared to 2-speed electric elevator	
	Cost	%	Cost	%
6 person	€2,017	96%	€598	86%
8 person	€2,150	96%	€635	86%

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

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.

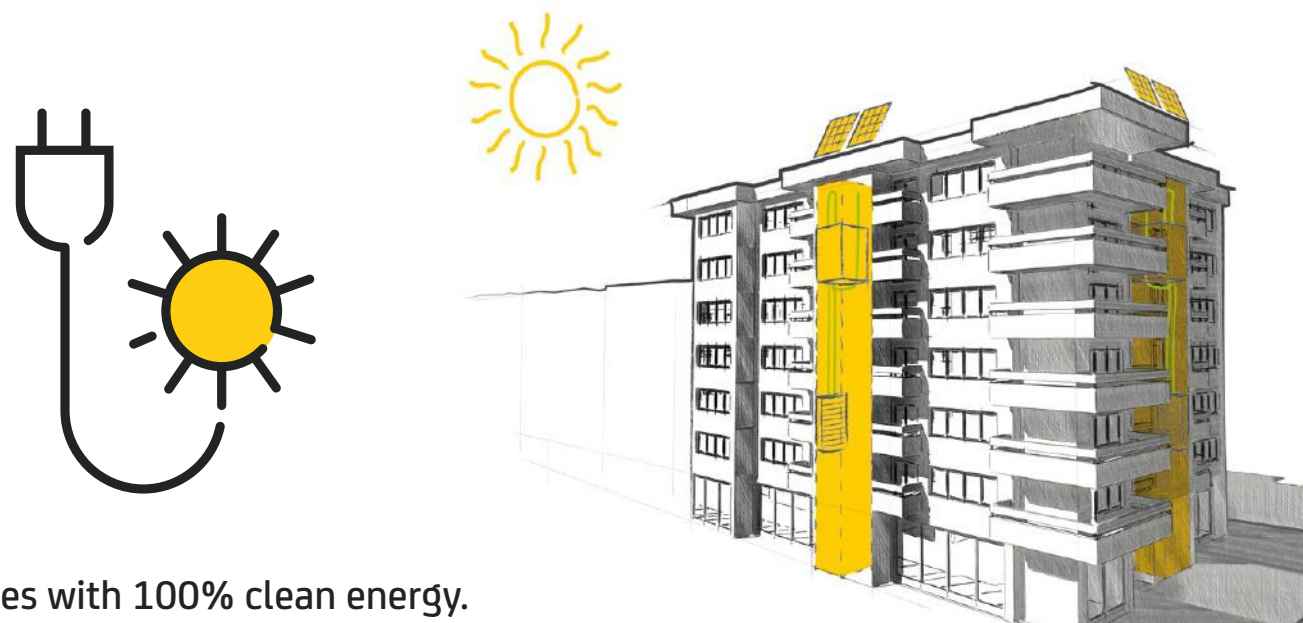
ION SOLAR 0% CO₂ emissions

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.

Cradle to Cradle®

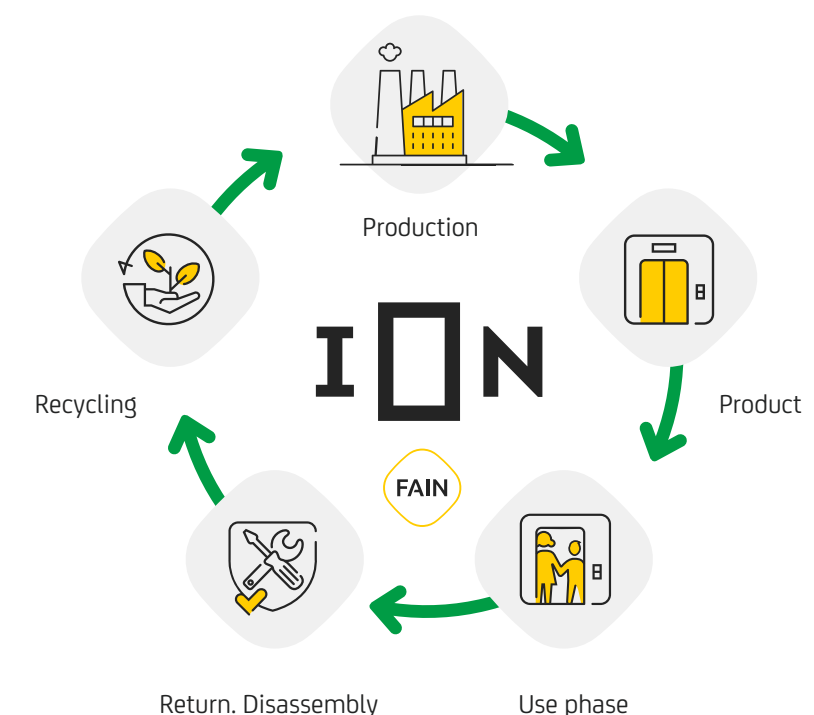
Certification



At FAIN, we always keep the environment in mind when designing our products.

The Cradle to Cradle Certificate guarantees sustainability throughout the product's life cycle:

- It has been produced without any environmentally harmful materials or manufacturing processes
- We no longer use oil in our maintenance, and we equip our lifts with components that guarantee minimum energy consumption
- We use recyclable materials, with the aim of eliminating the product's carbon footprint when rendered obsolete



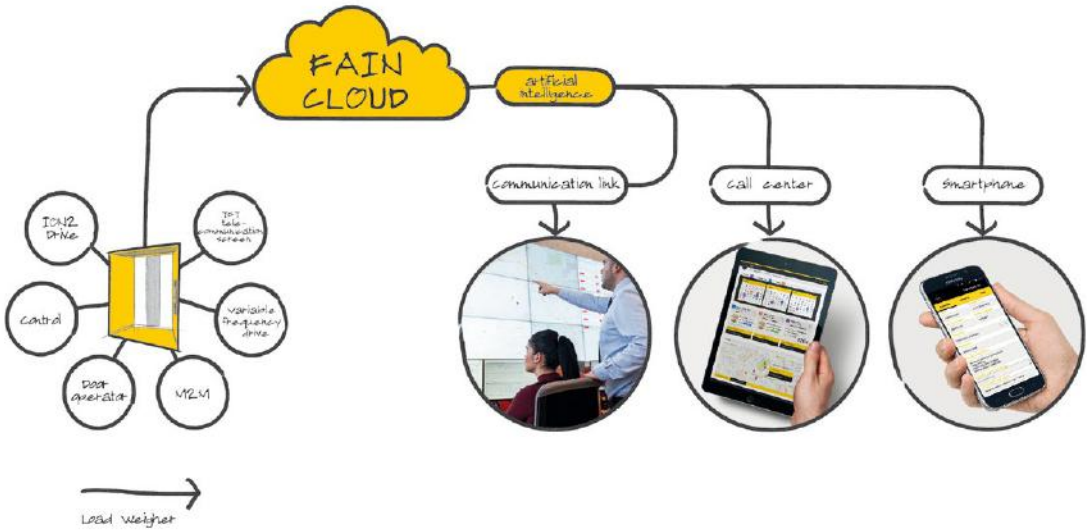
FAIN 360 Connectivity^o

Growing towards a better world

The ION by FAIN is equipped by default with a **10-inch TFT screen** that displays general information and entertainment.



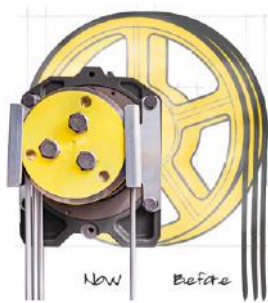
FAIN Cloud



FAIN 360^o connectivity is in **constant communication with our Customer Care Centre and our technicians** and monitors the elevator's activity 24 hours a day.

On the FAIN 360^o customer platform, you will be able to consult information on the status of your elevator and on the maintenance service we provide in real time.

Space saving



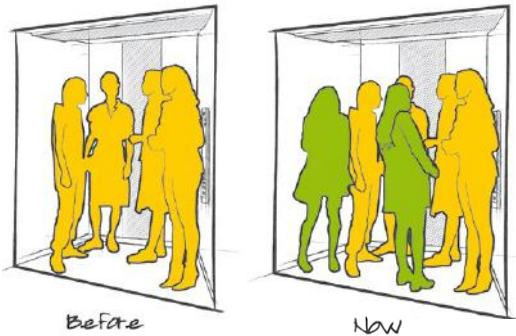
We have reduced the size of the machinery by 70% and the weight by 50%.



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: 550 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: 550 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: 550 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

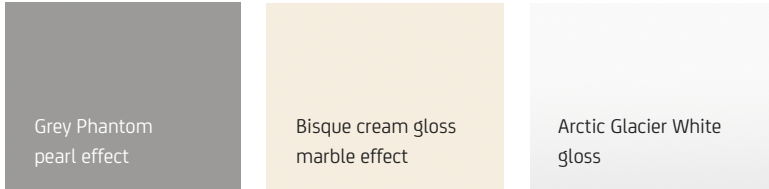
- Walls: Cherry
- Skirting: 50 mm in hairline satin-finish steel
- Mirror: 550 mm silver colour
- Ceiling: Embellished with a steel frame
- Light: White LED
- Handrails: Curved in matt steel
- Flooring: Uni Ice Ceramic
- Collection: Eco-friendly materials

Finishes

TECNO COLLECTION Single-colour walls



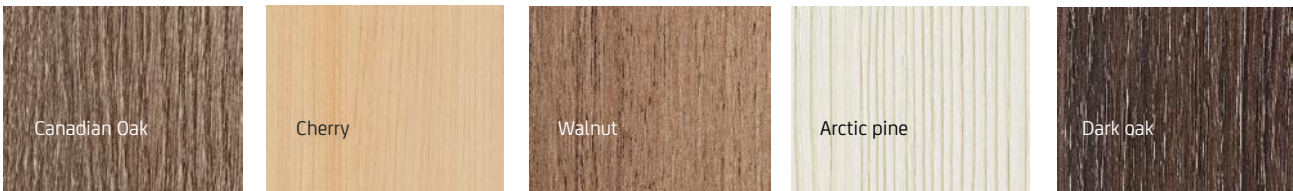
The design is enhanced with modern materials that create an avant-garde setting. The glossy coloured laminates give the lift cabin a spacious, bright and modern feel.



ECO-FRIENDLY MATERIALS Single-colour walls



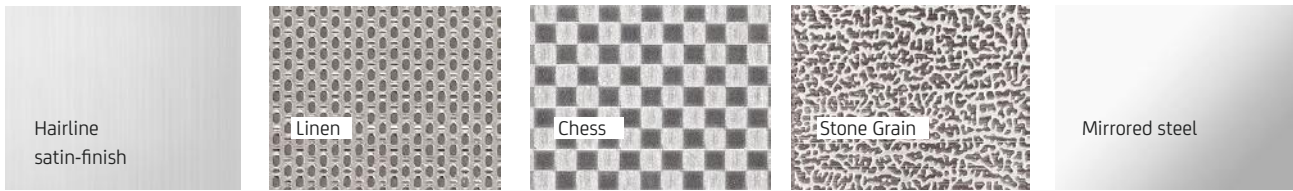
Natural materials are combined with ultra-low powered LED to achieve clean, harmonious, natural designs.



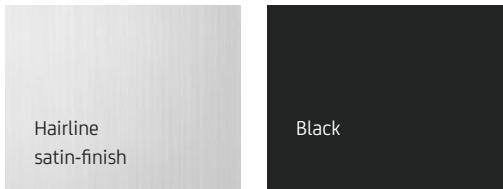
METAL COLLECTION Single-/Two-colour walls



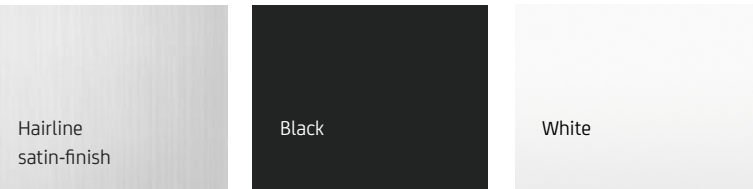
Straight lines highlight metallic textures giving the lift cabin a contemporary and durable look.



Skirting and joints



Ceiling



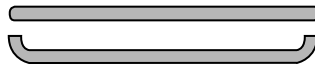
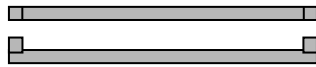
Flooring



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: 1,050 x 190 x 21.7 mm

Type: Frieze floor panel
Finish: Brushed stainless steel
Dimensions: 1.800 x 190 x 21,7 mm

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

Button panels for exteriors and displays



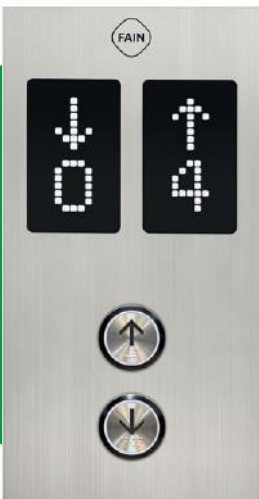
Type: Floor button panel with 1 or 2 buttons / keyhole
Finish: Stainless Steel
Buttons: Stainless steel anti-tamper finish



Registration: Visual and acoustic
LED: White LED
Dimensions: 185 x 80 x 12 mm



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



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



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

Button panel 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: 185 x 80 x 12 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: 280 x 80 x 12 mm (Duplex) 280 x 145 x 12 mm



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

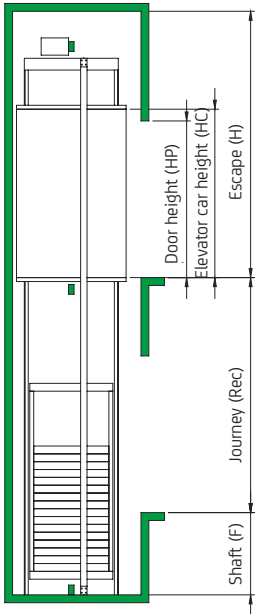
Dimensions of shaft

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

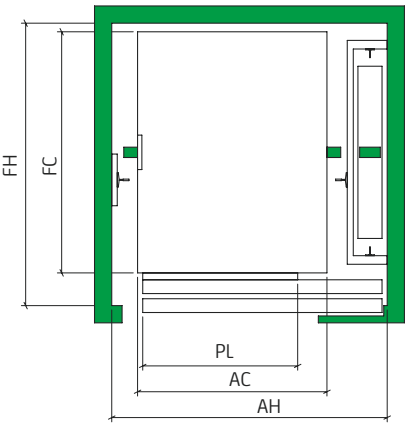
Capacity/Load	Elevator car (AC x FC) EN 81.70	Shaft (width x depth)		PPL	New build (81.50 & 81.20)		Renovation (EN 81.21)	
					Shaft	Escape	Shaft	Escape
375 kgs/5 persons	900 x 1,200	1 acc	1,450 x 1,450	700-25	1,250	3,700	850	3,700
		2 acc to 180°	1,450 x 1,580					
450 kgs/6 persons	1,000 x 1,250	1 acc	1,550 x 1,500	800-25	1,050			
		2 acc at 180°	1,550 x 1,630					
525 kgs/7 persons	1,100 x 1,300	1 acc	1,650 x 1,550	800-25 / 900-25				
		2 acc at 180°	1,650 x 1,680					
630 kgs/8 persons	1,100 x 1,400	1 acc	1,650 x 1,650					
		2 acc at 180°	1,650 x 1,780					

* For dimensions outside the standard, consult the technical commercial department

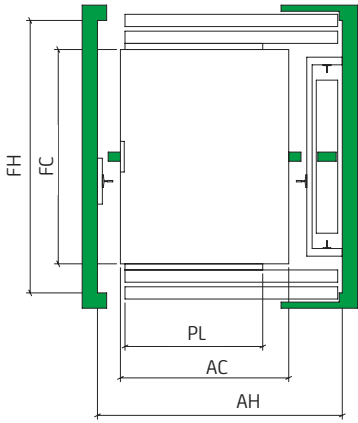
Vertical section



Single boarding



Double boarding at 180°



SPECIFICATIONS			
Nominal charge	375-630 kg	Elevator car height	2,100 mm (standard)
	5-8 persons		Max. 2,300 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. 2,200 mm (optional)		

ION

THE NEXT
GENERATION OF
ELEVATORS

Characteristics and options

Control options		Tecno line of finishes	■	Mounted on the door frame	▲
Selective going down	■	Finishes in eco-friendly materials and metal	▲		
Group operation up to 4 lifts	▲	Ceramic finish flooring	▲	Accessibility	
Selective going up and down	▲	Elevator cabin height up to 2,100 mm	■	Double boarding at 180°	▲
Automatic return of lift cabin to main floor	▲	Elevator cabin height up to 2,300 mm	▲	Inductive loop for hearing aids	▲
Non-stop automatic operation	▲	Resin floor finish	■	Adjustable door open and close time	▲
Interface with building management system	▲	Floor prepared for customer installation up to 12 mm	■	Open-close door button	■
Door folds into door frame	■	Full-height mirror 550 mm wide	■	Audio indicator for floor stop, direction and door status	■
Floor access code (telephone keypad)	■	Lift cabin doors in hairline satin stainless steel	■	Floor access key / controlled access	▲
Connection to emergency generator / current	▲	Floor-level doors in painted steel (RAL 7032)	■	Compliance PACK EN 81/70	▲
Silent controls without contactors	■	Rear glass wall at medium height	▲		
Independent service	▲	Rear glass wall at medium height	▲	Performance	
VIP call service	▲	Glass doors at floor level	▲	High traffic doors	▲
				Remote monitoring and diagnosis	▲
Energy saving		Button panel inside cabin			
ION2 Drive energy regeneration	▲	Keypad with 10 push buttons (0-9)	■	Safety	
Automatic switching on/off of cabin lights	■	Frieze button panel with conventional layout, optional anti-tampering	▲	Manual evacuation	■
Low-consumption LED lighting	■			Automatic evacuation to the nearest floor	▲
Oil-free machine, gearless permanent magnet	■	Second elevator cabin button pad on the opposite side	▲	Detection and display of cabin overload	■
		Button panel inside cabin with matrix floor display of LED points in white	■	Two-way communication with our Customer Service	■
Design		Button panel inside cabin with 10.1" TFT	▲	Alarm with integrated monitoring	■
Counter-weight parachute	▲	Floor destination displayed on standard 10" TFT	■	Fire fighter specifications as per EN 81/73	▲
Reduced shaft escape	▲			Elevator cabin emergency lighting	■
Reduced shaft size	▲	Floor button pads		Infrared barrier for cabin access	■
Curved design handrails	■	Visual and acoustic call recognition	■	DYNAFAIN traction cable monitoring system	■
Straight-design handrails	▲	Unblock call by key	▲		
Enhanced LED lighting	▲	Position indicator	▲	Connectivity	
Comfort design line	■	Arrow direction indicator	▲	FAIN 360° connectivity system	■ *
Elegance and Elite design lines	▲	Wall mounted	■	FAIN 360° connectivity system	■ *

■ Standard
▲ Optional

* Only accessible with FAIN maintenance contract

Branches

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Extremadura C/ Francisco Guerra, 12 Local 15 06011 Badajoz Tel.: 924 98 19 16	Alicante - Gandía Av. República Argentina 115 - Bajo 46701 Gandía Tel.: 966 106 527	Gibraltar 42 Office, Royal Ocean Plaza OCEAN VILLAGE GX11 1AA Gibraltar, Tel.: 952823814	Granada C/ Torre de la cautiva, Esq. Torre de la Polvora, Local 4 18008 Granada Tel.: 958 522 564	Irish Lift services. Ireland Unit 6, Broomhill Business Park, Broomhill Rd, Tallaght, Dublin 23, D24 WK68a (Ireland) Tel.: (01) 4199800	LSM Ascenseurs Rte de Morrens, 8 - Cugy 1053- Suisse		
Huelva Avda. Alemania, 86 21002 Huelva Telf.: 959 251 800	Madrid - Central Dr. Esquerdo, 57 28007 Madrid Telf.: 914 093 101	Madrid - Sur Móstoles, 38 28943 Fuenlabrada Telf.: 916 063 400	Málaga Avda. de Andalucía 31 29006. Málaga Tel.: 952 306 020				





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