


# H400



- 
1. WARRANTY UP TO 10 YEARS
  2. 100% CUSTOMIZED ELEVATOR
  3. ENVIRONMENTALLY FRIENDLY WITH HIGH ENERGETIC EFFICIENCY
  4. SAFETY
  5. FULLY COMPLIANT WITH THE EUROPEAN DIRECTIVES AND STANDARDS



**New!**

# H400

*It fits into your style*

## **Use the finishes of your home doors for the door of your H400**

It can be customized with a wide variety of floor, wall and door finishes, to match the architectural style and the interior decoration of your home.

Suitable to any building type, new or existing, inside or outside, with or without self-supporting structure

\* Possibility of extending the warranty up to 10 years. For further information please call the phone number overleaf

## 1. H400

### Structure

GMV can provide steel structures for indoor or outdoor use, with any possible finish (steel or glass), perfectly matching any new or existing building type. The technical structure specifications are calculated depending on each installation, in compliance with any national standard or regulation.

### Landing doors

Door models available: power operated doors 2AT-2AO-3AT, hinged doors (car bus door and manual at landings), manual doors (without car door). Available finishes: Polimod, Plastic laminate, Plastic coated sheet steel (Skinplate), Stainless Steel, Panoramic glass or RAL painted. Quick and easy to assemble and adjust

### 1008 SL Jack

Maximum shaft optimization. Less fluid quantity used. Quick and easy to install thanks to its design.

### Lift car

Designed to fit into any furnishing type. Car wall panels available in Skinplate, Plastic Laminate or Stainless Steel. Several ornamental solutions are possible. Very robust floor and roof. Car lighting available with led or fluorescent neon tubes. Easy access to the shaft through a hatch in the car roof.

### Flexible hose

Designed with inner synthetic rubber coat, with one or two high resistance spirals. The outer layer of synthetic rubber provides excellent resistance.

### Bio-degradable ecological fluid

It guarantees the best results and very high performances over the years. It betters the performance of the NGV valve. Best filtration with or without water. Excellent anticorrosion, anti-oxidant and anti-foam results. Very low freezing point.

### Car frame T509

Traction 2:1. Designed for any kind of building thanks to the reduced pit (150 mm). Ideal to transport passengers in single family installations. It is supplied with a low pit safety device according to EN 81-41.

### Lift car doors

Available door types: Power operated (2AT - 2AO - 3AT). Semiautomatic (bus door in car and manual landing door). Without car door (with light curtain technology).

### Control panel

Easy to install, setting at work and maintenance with LED signal inputs and output indicators-LCD display. Robust push-buttons. Diagnostic tool provided for installation, parameter settings, repair and, maintenance, allowing to find code errors. Furthermore it supplies:

- Automatic re-leveling
- Emergency lowering device to main floor in case of black-out
- Constant pressure controller
- Car light timer

### Control panel E400

Cabinet of reduced dimensions (1.5 m high), that can be located anywhere at home within a radius of approximately 15 m.

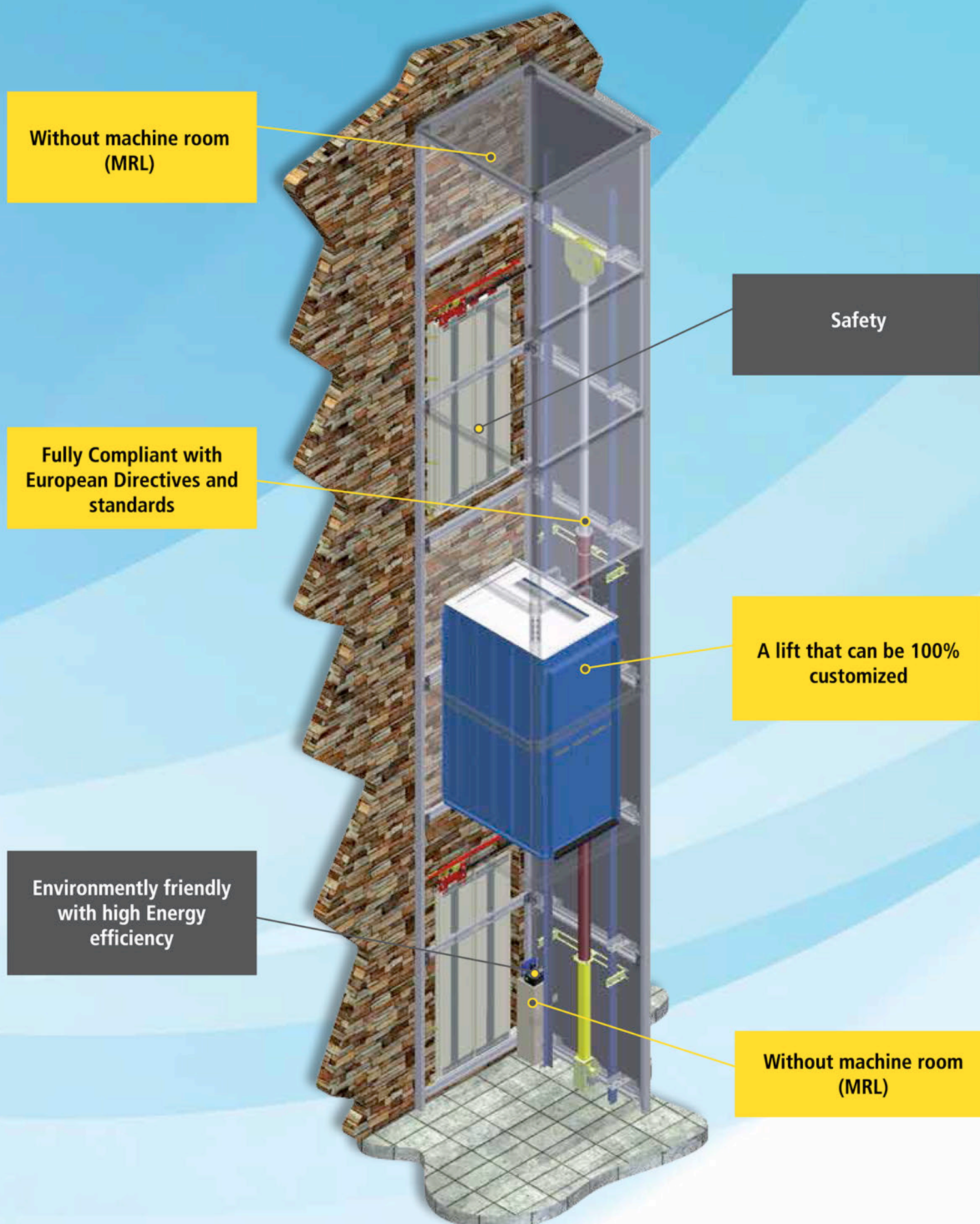
### Power unit HL DRY

Power unit located in a machine room or, thanks to its reduced size, anywhere to optimize the housing space. The power unit includes the NGV valve block, incorporating a double safety feature as a standard.

Very high comfort and very low consumption thanks to its outer motor (DRY). It complies with the Machine Directive 2006/42/CE.



## H400



## 2. Advantages and features of the H400

<b>Comfort</b>	The only Home Lift in the market with an MRL solution (Machine Room Less) with NGV electronic valve and with bio-degradable eco-fluid Available with adjustable speeds. Max. speed up to 0,3 m/s ( optional). Caution: Speed > 0,15 m/s only possible outside the European Community.
<b>Accessibility</b>	It eliminates architectural restrictions
<b>Safety and fully compliant with the standards</b>	Double integrated safety device as standard, complies with the Machine Directive 2006/42/EC, meeting EN 81-70 standards (accessibility). Incorporated automatic return to floor.
<b>Available motors and voltages</b>	Single - phase and three - phase.
<b>Self-supporting structures (optional)</b>	Easy to install.
<b>Shaft</b>	Up to 69% of the space can be used.
<b>High Energy efficiency</b>	Low Energy consumption (in compliance with the Kyoto Protocol). The used energy is like that of a 230 V standard household appliance.
<b>Environmentally friendly</b>	It can be used with bio-degradable eco-fluid up to 90%.
<b>Flexibility</b>	It can be 100% customized . Adaptable to each customers requirement: - Wide range of doors available: power-operated, hinged semi-automatic, manual landing doors with the same finishes as the apartment doors , etc. - Wide range of aesthetic finishes

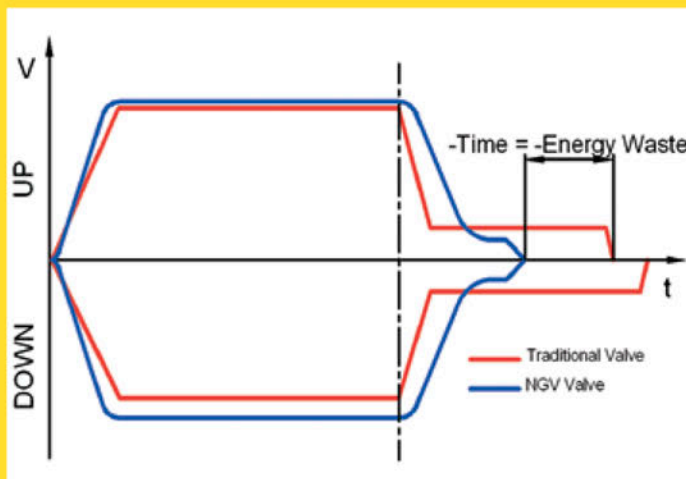
### H400 FEATURES

<b>Suspension</b>	<b>2:1</b>
<b>Payload</b>	<b>250 Kg - 320 Kg - 400 Kg</b>
<b>Max. n° of passengers</b>	<b>5</b>
<b>Max. n° of stops</b>	<b>5</b>
<b>Max. travel</b>	<b>14 m</b>
<b>Max. speed</b>	<b>0,15 m/s</b>
<b>Motor power</b>	<b>1,5 - 2,6 kW</b>
<b>Min. pit</b>	<b>150 mm</b>
<b>Min. headroom</b>	<b>2500 mm (without car door); 2700 mm (with car door) 2600 mm (2 panel)</b>
<b>Lift car (standard sizes)</b>	<b>(width) 670 : 1400 mm; (depth) 700 : 1400 mm</b>
<b>Cabinet (optional)</b>	<b>Sizes: 700 x 400 x 1500 mm (LENGTH X WIDTH X HEIGHT)</b>
<b>Energy efficiency</b>	<b>The used energy is like that of the most common household appliances</b>
<b>Ecology (optional)</b>	<b>Eco-fluid</b>
<b>Standard</b>	<b>Machine Directive 2006/42/CE (safety) - EN-81.41 (accessibility)</b>

## 3. Standard equipment

### Hydraulic power unit

Power unit HL or HLV with mechanical valve or, as an option, with NGV electronic valve, that provides higher safety and energy efficiency.  
Reduced consumption thanks to its outer motors (DRY).  
Double safety system incorporated as standard.  
Leveling and electrical emergency system.  
One stage jack (1008 SL piston).  
Hydraulic equipment calculated according to the EN 81-2 standard.  
Flexible hose.  
Travel comfort: programming upwards speed independent from the down speed.



### Mechanical equipment

Car frame 2:1 (T509 model).  
Instantaneous safety devices to increase safety.  
Deviation pulley and traction cables.  
Pillars and stand base.  
Mechanical device to perform the trial test for the rupture valve.  
5 mm guide rail thickness.

### Electrical equipment

Fully automatic push button controller and hold-to-run facility on the car.  
EMC certificate.  
Pre-wired cables (plug-in play). Automatic return to floor.  
Single-phase motor 50/50 Hz. Car light timer.

### Landing doors

Hinged semi-automatic doors.  
Certified door locks.  
Bi-stable contacts at main floor.



## Standards

### EQUIPMENT IN COMPLIANCE WITH EN.81-41

Pressure switch  
Interphone or intercom inside the car  
Hand pump  
Hold-to-run operation  
Handrail  
Light curtain as per EN.81-41  
Specific information labels as per EN.81-41  
Safety device for reduced pit  
Door clear width : 800 mm

Lift car sizes as per EN.81-41  
Set of electrical switches  
Horizontally sliding power-operated doors with door operator  
Minimum car size: 1000 x 1250 mm  
Side handrail  
Half wall mirror  
Precise floor leveling +/- 10 mm as per EN 81.41  
Push button boxes as per EN.81-41  
Vocal indicator at floor arrival, acoustic and visual indicators



## Safety

Double safety device integrated as standard in the valve block, complying with the Machine Directive 2006/42/EC.  
 Instantaneous safety device to increase the safety.  
 Valve block according to the EN.81-2 standard.  
 Pipe bursting valve with EC certificate.  
 Device for reduced pit for the maintenance phase.  
 Visual and acoustic overload indicator.  
 Light curtain at each entrance.  
 Electrical equipment:  
   Control panel  
   Hold-to-run operation up- and down  
   Push button box at every floor  
   Emergency stop push button  
   Alarm push button  
   Emergency light



## Quality

List of the available certificates:  
   EMC certificate for the controller and the NGV electronic valve block  
   Certificate for the fire-rated landing doors  
   EC certificate for: pipe bursting valve, landing door locks and Safety devices in the car frame

Standards:  
   Machine Directive 2006/42/EC  
   EN.81-41 and EN.81-70 (optional)  
   EN.81-58

## Car components

CAR COMPONENTS	RANGE OF FINISHES		
Walls	Skinplate	Plastic Laminate	Satin stainless steel
Skirting	Satin stainless steel		
Corners	Skinplate	Satin stainless steel	
Floor	PVC		
Push button box	Stainless steel full height panel		
Safety	Light curtain for every entrance		
Ceiling	Curved plexiglas		
Lighting	Neon		
Mirror	Half wall mirror		



## 4. Car types



Plastic Laminate

**Walls:** Grey stone

**Lighting:** Neon

**Floor:** PVC



Plastic Laminate

**Walls:** Green

**Lighting:** Neon

**Floor:** PVC



Plastic Laminate

**Walls:** Orange

**Lighting:** Neon

**Floor:** PVC



Plastic Laminate

**Walls:** Brushed silver

**Lighting:** Neon

**Floor:** PVC



Plastic Laminate

**Walls:** Manganite

**Lighting:** Neon

**Floor:** PVC



Skinplate

**Walls:** Beige Marble

**Lighting:** Neon

**Floor:** PVC

Skinplate



**Walls:** Pink marble

**Lighting:** Neon

**Floor:** PVC

Skinplate



**Walls:** Dark blue

**Lighting:** Led

**Floor:** PVC

Skinplate



**Walls:** Fir

**Lighting:** Neon

**Floor:** PVC

Plastic Laminate



**Walls:** Durmast

**Lighting:** Domino

**Floor:** PVC

Skinplate



**Walls:** Dark grey

**Lighting:** Neon

**Floor:** PVC

Satin stainless steel



**Walls:** SB stainless steel

**Lighting:** Neon

**Floor:** PVC





## 5. Finishes: Colours and materials

### Floor

#### PVC



509 - Beige

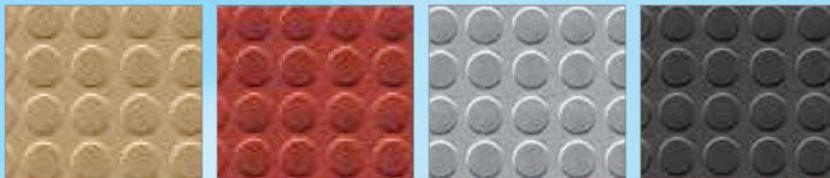
501 - Light grey

511 - Red

513 - Blue

502 - Dark grey

#### PVC (anti slip floor)



703 - Beige

704 - Red

701 - Grey

702 - Black

#### FLOOR



The Lift car floor can be prepared with 20 mm undercut to allow the customer to fit their own lining

### Ceilings

GMV offers two different types of lighting available with any car dimension:

#### NEON



Curved plexiglass ( standard)



Domino\*



Bubbles\*

#### LED



Led\*

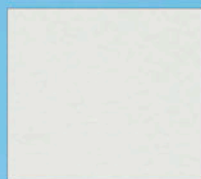
\*The finishes of all models are in stainless steel



301 SB stainless steel

## Walls

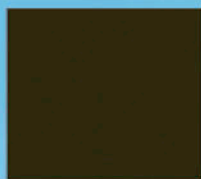
### PLASTIC LAMINATE



114 - White light blue



115 - Stone grey



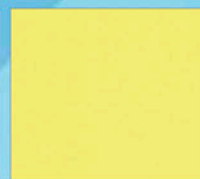
116 - Carob



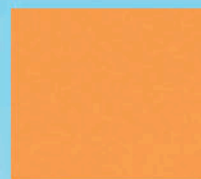
117 - Lavender



118 - Green



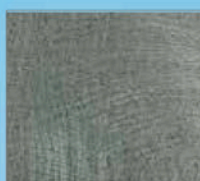
119 - Yellow



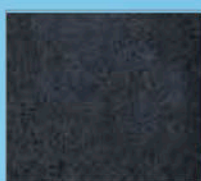
120 - Orange



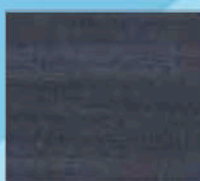
121 - Copperfield



123 - Brushed  
silver

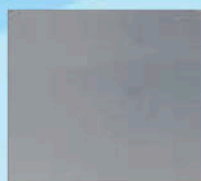


125 - Manganite



126 - Durmast

### STAINLESS STEEL



301 -SB stainless  
steel



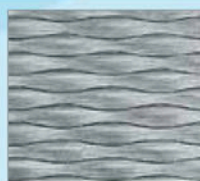
302 - Stainless  
steel chequers



303 - Stainless  
steel linen

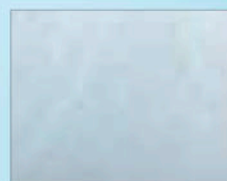


304 - Stainless  
steel leather



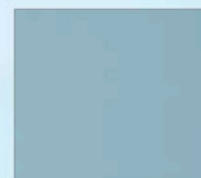
305 - 5WL

### GLASS



801 - Glass

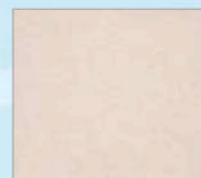
### SKINPLATE



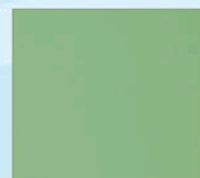
416 - Light blue



417 - Dark blue



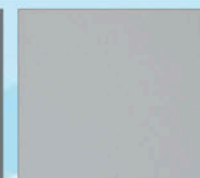
422 - Pink marble



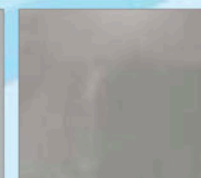
418 - Dark green



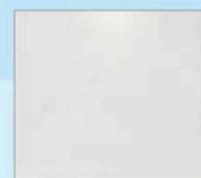
413 - Dark grey



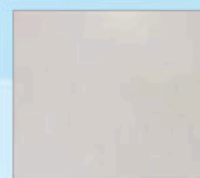
412 - Light grey



414 - Satin



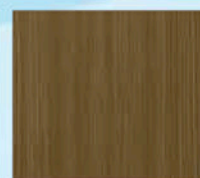
420 - Glossy white  
marble



421 - Glossy  
beige marble



419 - Red



409 - Fir



410 - Mahogany

## Door types



Two-speed power operated doors

2AT

3AT

4AO



Bus doors



Hinged doors

## Car and landing doors

Finishes like " Car walls " ( see page 14)

### PLASTIC LAMINATE

(Please contact  
GMV sales office)

### SKINPLATE

(Only two-speed power  
operated doors)

### STAINLESS STEEL

All types available

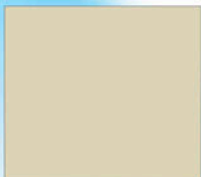
### GLASS

Glass

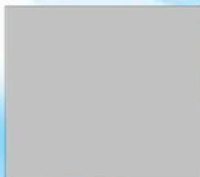
### RAL

Hinged doors

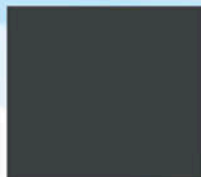
### POLIMOD (Only two-speed power operated doors)



201 - Beige



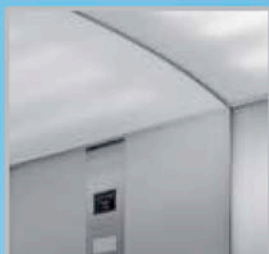
204 - Light grey



205 - Dark grey

## 6. Options

### LIFT CAR OPTIONS



Ceiling: curved plexiglass and  
Neon lighting



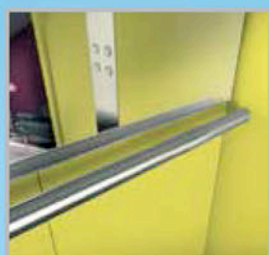
Ceiling: stainless steel  
and Led lighting



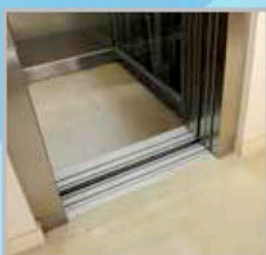
Half wall mirror



Full wall mirror



Stainless steel handrail



The Lift car floor can be prepared with 20 mm  
undercut to allow the customer to fit their own  
lining



Phone



Intercom



Customized logo



Key in car



Display in landing and car push  
button boxes



Car doors: two-speed  
2AT/2AO/3AT



Car doors: Power operated  
bus doors



Landing doors with  
any RAL finish

NOTE: For other options please call the ELA sales office

## ADDITIONAL OPTIONS



Power unit type HL 3010 Dry



NGV programming tool



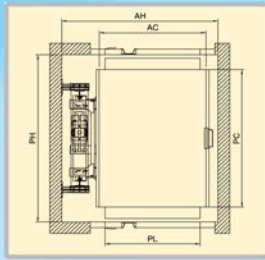
E400 cabinet type



Eco-fluid



Light curtain



2 entrances



Use the finishes of your house doors for your Home Lifty door



Self-supporting structures for indoors and outdoors

## OTHER ADDITIONAL OPTIONS

Door clear width different from the standard

Door clear height different from the standard ( 2000 mm)

Guide rails 2500 mm long

Automatic system for hinged doors

Remote control

## 7. Structures

If a steel structure is required, ELA offers a wide range of options suitable for both indoor and outdoor use.

### Modular design

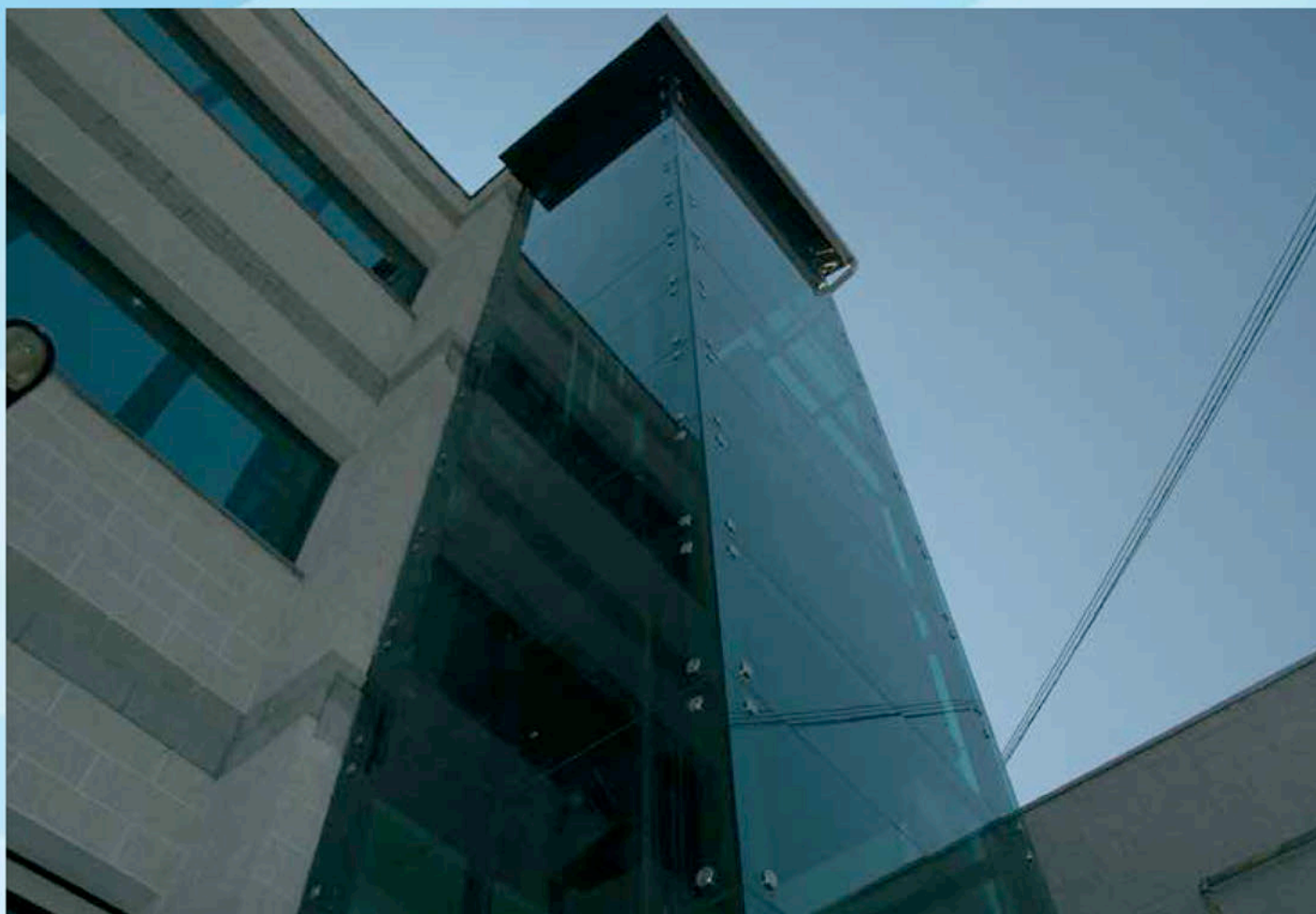
The modular design enables various steel structure shapes to be adapted to the cosmetic requirements of the building, i.e. square (standard), rectangular, polygonal, round-shaped, etc. Thanks to their high flexibility the steel structures perfectly fit to any situation. The reduced installation time will also mean a reduction in installation costs.

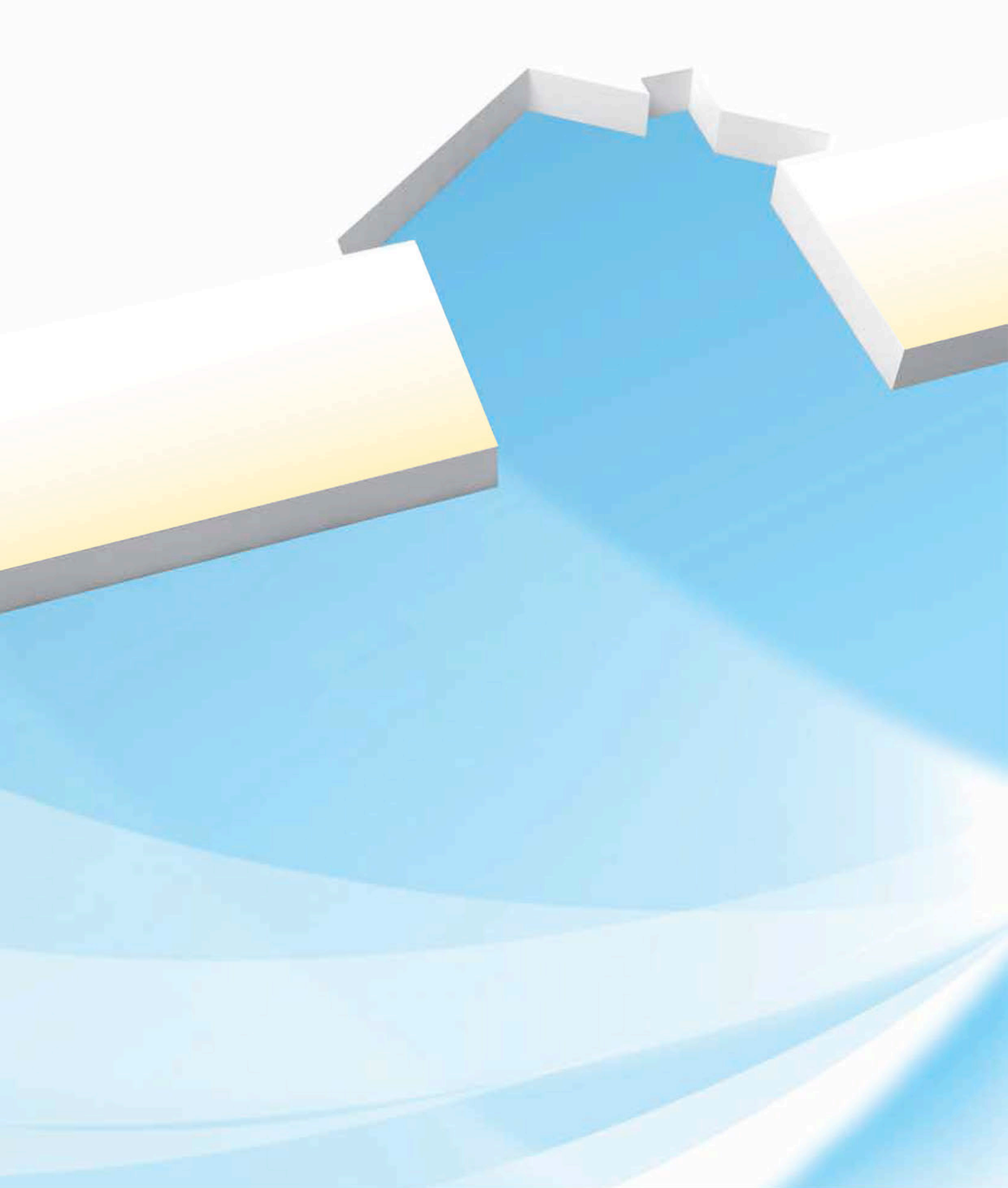
### Tailor-made structure

Each structure is individually designed. This allows optimum performance and safety. A wide range of finishes are available for both internal and external use, which can be adapted to suit the style of the building and the house (panoramic structures, various types of claddings), etc.

### Reliability and safety

The steel structure is self-supporting: this means it does not allow tension or vibrations to be transmitted to the building during the lift operation, thus avoiding the forming of cracks.





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