



# General Catalogue



# PORTFOLIO

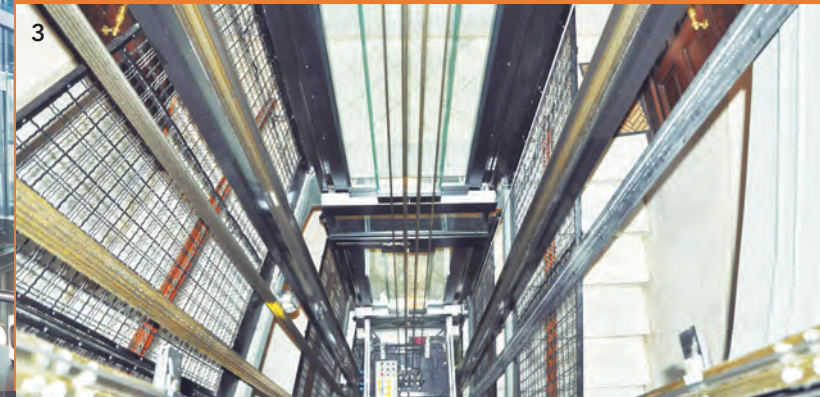
1



2



3



- 1. Interior building  
Optimus 450 kg
- 2. Duplex with structure  
Symbio 1600 kg
- 3. Stairwell  
Traction Lift 450 kg
- 4. Homelift with structure  
MyDomestic 350 kg
- 5. Refurbishment building  
Hydraulic Lift 630 kg

4



5



6







6. Refurbishment building

Traction Lift 320 kg

7. Refurbishment building

Optimus 320 kg

8. Unifamiliar negocio.

MyDomestic 385 kg

9. Refurbishment building

Optimus 450 kg

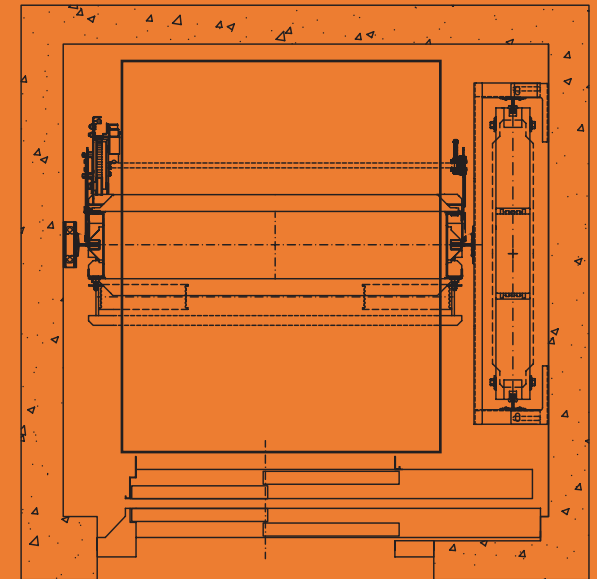




## SYMBIO GEARLESS

- \* EN 81.20/50 Compliant
- \* Up to 3000Kg Capacity
- \* Up to 100m travel
- \* Anti -vandal versions available

We have equipped it with a gearless machine to guarantee supreme energy efficiency. The optimisation of the **MRL Symbio** design has enhanced the lift's comfort and safety.





## ADVANTAGES

### Space optimisation:

No machine room required.

### Mechanic Efficiency:

Lower power consumption with a gearless machine.  
Plus, it needs no oil and does not create unnecessary noise.

### Single-phase:

Connection to a singlephase plug 220 V.

### Easy maintenance:

The machine has a long life cycle and repairs are virtually unnecessary.

### Comfort:

It features a portico car frame with 2:1 suspension that guarantees a top quality ride during the trip.



\_MACHINE ROOM LESS (MRL)  
Also available with MR (Machine Room).

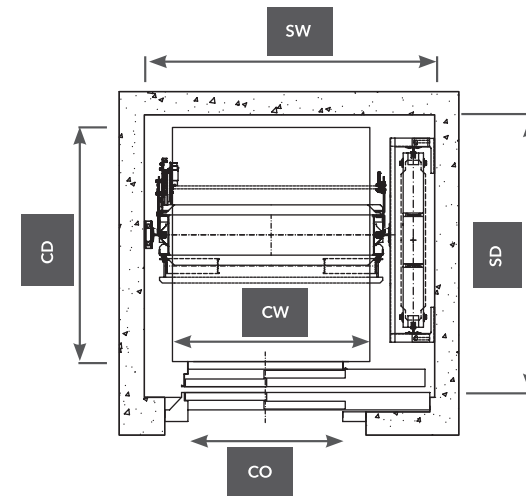




**Technical characteristics:**

- **Nominal speed** 1 m/s 3VF up to 2,5 m/s
- **Nominal load** up to 3.000 kg
- **Cable** 6,5 / 8 mm. (> 1.250 kg)
- **Suspension** 2:1
- **Standard headroom** 3.700 mm.
- **Standard pit** 1.200 mm.
- **Travel** up to 100 m.
- **Control unit** installed in door frame<sup>(1)</sup>

<sup>(1)</sup>Automatic doors with frame of 120 mm.

**\_DRAWING OF LANDING**

SW Shaft Width

CD Car Depth

SD Shaft Depth

CO Car Opening

CW Car Width

Q (kg)	LOW PIT EN81-21		LOW HEAD EN81-21	
	Low Pit (mm)	Required headroom (mm)	Required pit depth (mm)	Low Head (mm)
180-450	320	3320	640	2550
630	320	3320	695	2650
1000	670	3200	700	3200
1250	670	3200	700	3200
1600	400	3300	700	3300
2000	1020	3700	1020	3700
2500	1020	3700	1020	3700
3000	1020	3700	1020	3700

Single-phase plug 220V.

Q (Kg)	Rated speed recommended (m/s)	Travel máx. (m)
320	Up to 0,8	30
450	Up to 0,6	30
630	Up to 0,3	30

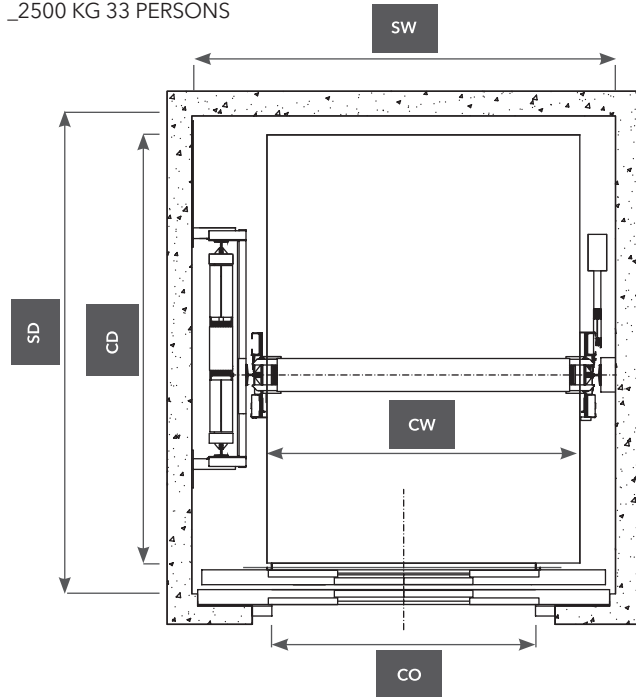
Q (kg)	SW	SD	CW	CD	CO
180	1310	960	750	750	700
225	1310	1100	750	870	700
320	1400	1300	900	1000	700
450	1500	1460	1020	1210	800
630	1600	1660	1120	1410	800
800	1930	1750	1300	1500	900
1000	1600	2350	1100	2100	900
1125	2000	2350	1250	2100	1000
1250	2050	2350	1300	2100	1000
1600	2250	2500	1500	2250	1200
2000	2150	3050	1500	2700	1300
2500	2650	3050	1800	2700	1600
3000	2750	3050	1900	2700	1600



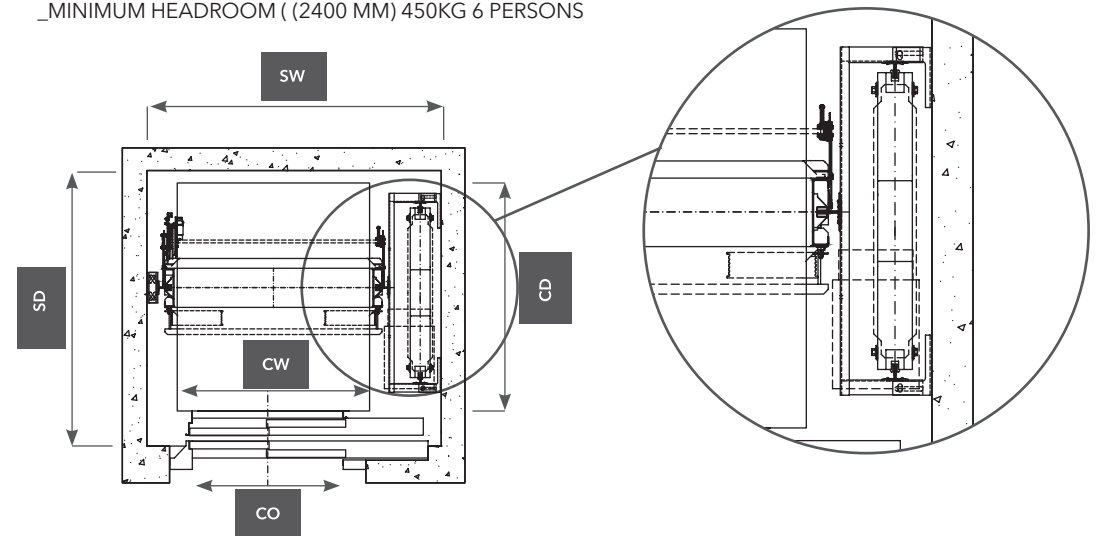
SW Shaft Width      CD Car Depth  
SD Shaft Depth      CO Car Opening  
CW Car Width

## \_DRAWING OF LANDING

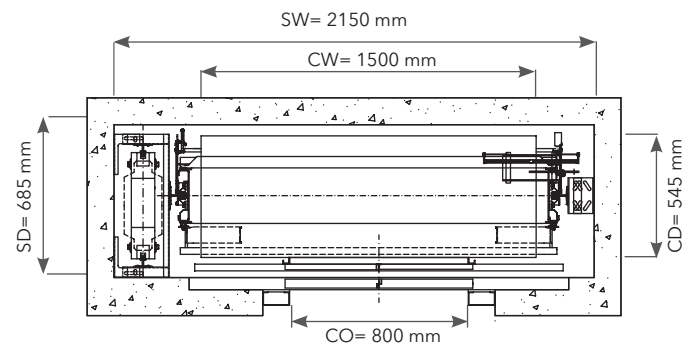
\_2500 KG 33 PERSONS



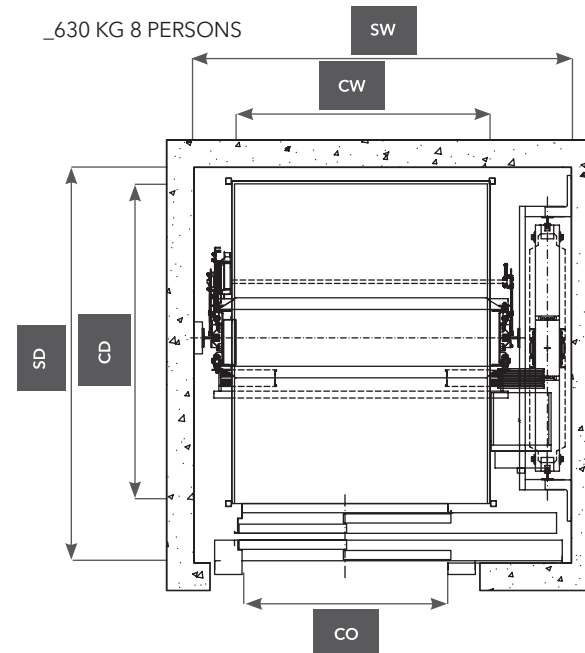
\_MINIMUM HEADROOM ( (2400 MM) 450KG 6 PERSONS



\_MINIMUM STANDARD SHAFT



\_630 KG 8 PERSONS







## OPTIMUS GEARLESS

- \* Ideal for tight areas & retro-fits
- \* 3 phase or single phase
- \* Allows use of adjacent entrances
- \* Up to 1250kg capacity

The machine room-less traction lift the best optimizes available shaft.

With **Raloe's Optimus**, the required space is no longer the critical detail that needs to be considered first when deciding whether to install an traction or hydraulic lift in an existing building. This traction lift uses the existing shaft equally efficiently as a hydraulic lift.

When an old building is being refurbished for new usage, many times the old lift is being replaced as well. While doing so, the goal is to make optimal use of the shaft and to create the largest possible car size. Where up until today a hydraulic lift had to be installed, the **Optimus now is providing a real alternative.**

The traction lift, which is available with or without machine room and comes with gearless propulsion, can also be used with a **singlephase current and merely requires 250mm space on the side of the rucksack frame.** Further space-optimization is guaranteed by mounting guidance and counterweight rails in the same layer.



## ADVANTAGES

### Flexibility:

Allows single, double and triple entrances. Ideal for projects with adjacent entrances 90°.

### Single-phase:

Operating on a single-phase supply 220 V.

### Optimisation:

Easy Assembly. Self supporting.



\_MACHINE ROOM LESS (MRL)  
Also available with MR (Machine Room).





**Technical characteristics:**

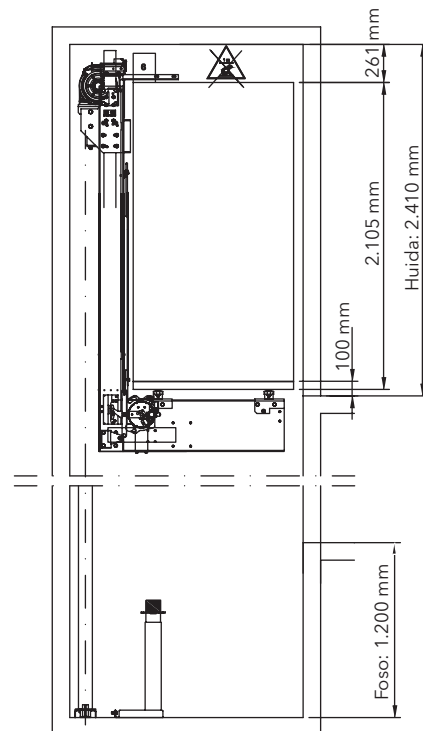
- **Nominal speed** 1 m/s > CONSULT
- **Nominal load** up to 1.250 kg
- **Cable** 6,5 Ø
- **Suspension** 1:1 up to 320 kg 2:1 (450 kg - 1.250 kg)
- **Standard headroom** 3.600 mm.
- **Standard pit** 1.200 mm.
- **Travel** up to 50 m.
- **Control unit** installed in door frame<sup>(1)</sup>

<sup>(1)</sup>Automatic doors with frame of 120 mm.

LOW PIT EN81-21		
Q (kg)	Low Pit (mm)	Required headroom (mm)
180-450	250	3250
630	270	3250
1000	500	3400
1250	500	3400

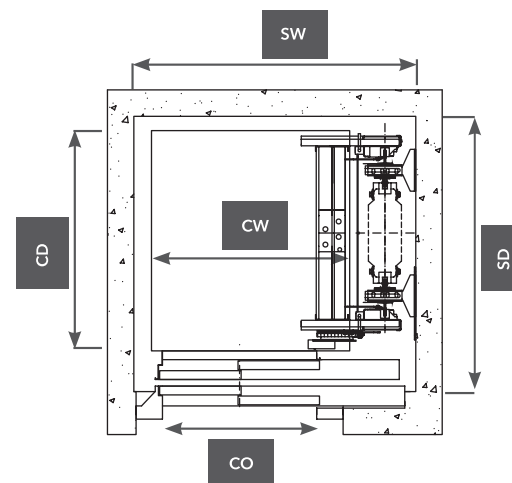
LOW HEADROOM EN81-21		
Q (kg)	Low Pit (mm)	Required headroom (mm)
Up to 630	300	2450

**\_OPTIMUS HDR**  
\_HEADROOM FRONT VIEW 2410 MM



SW Shaft Width      CD Car Depth  
SD Shaft Depth      CO Car Opening  
CW Car Width

**\_DRAWING OF LANDING**



Q (kg)	SW <sup>(2)</sup>	SD	CW	CD	CO
100	800	930	680	500	600
180	800	1150	680	720	600
225	1250	1000	850	790	700
320	1280	1250	900	1000	700
450	1400	1450	1020	1210	800
630	1500	1650	1120	1410	800
800	1810	1750	1300	1500	900
1000	1600	2370	1100	2100	900
1275	1800	2600	1200	2300	1100

<sup>(2)</sup> For headroom inferior at 3150 mm, increase SW of 65 mm

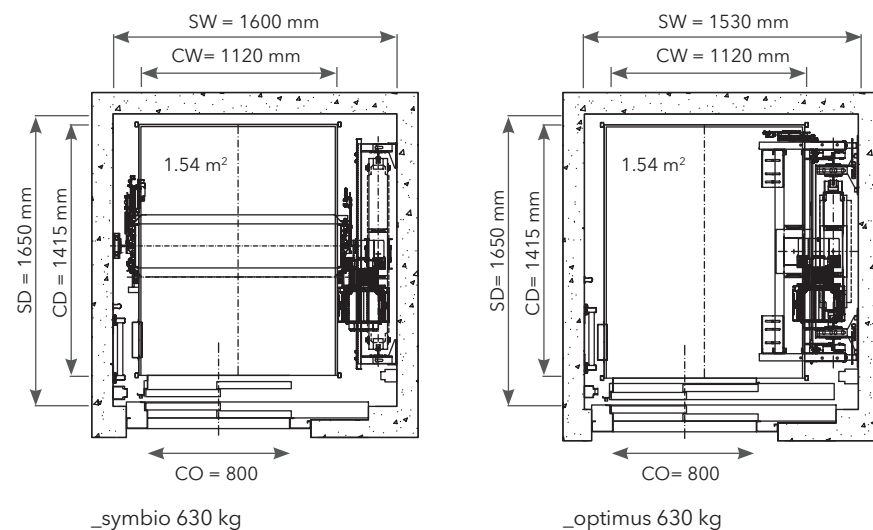
**Single-phase 220 V**

Q (Kg)	Rated speed recommended (m/s)	Travel máx. (m)
320 1:1	up to 0,5	30
320 2:1	up to 0,6	30
450	up to 0,5	30
630	up to 0,3	30

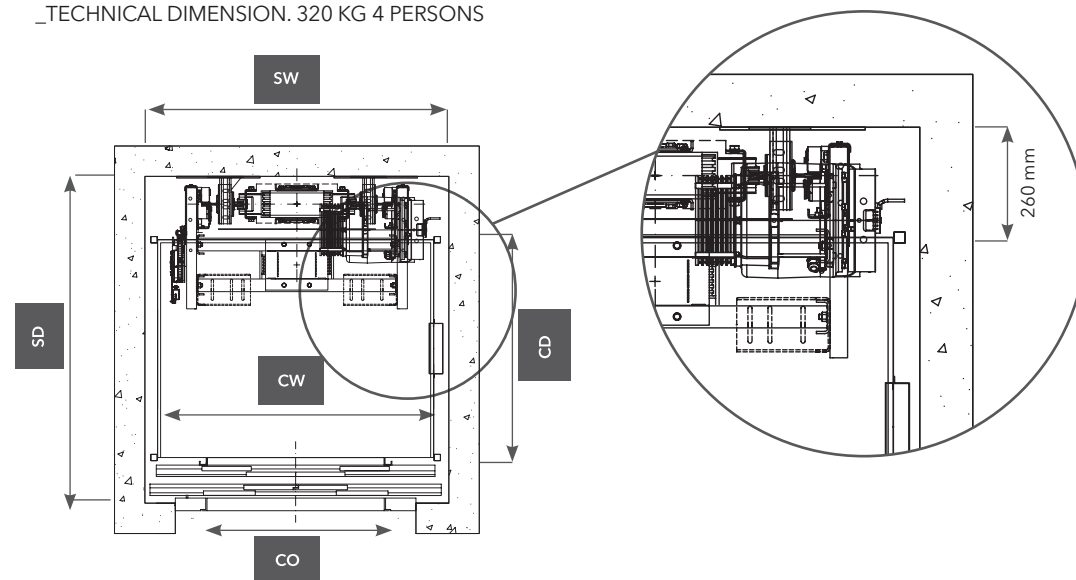
SW Shaft Width      CD Car Depth  
SD Shaft Depth      CO Car Opening  
CW Car Width

## \_DRAWING OF LANDING

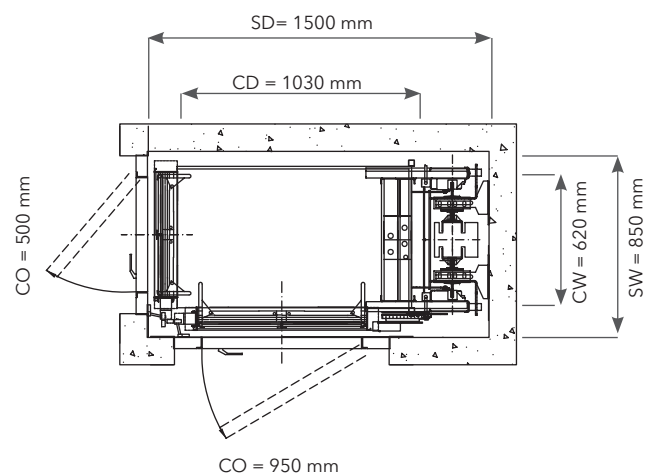
### \_BEST OPTIMIZATION AVAILABLE SHAFT



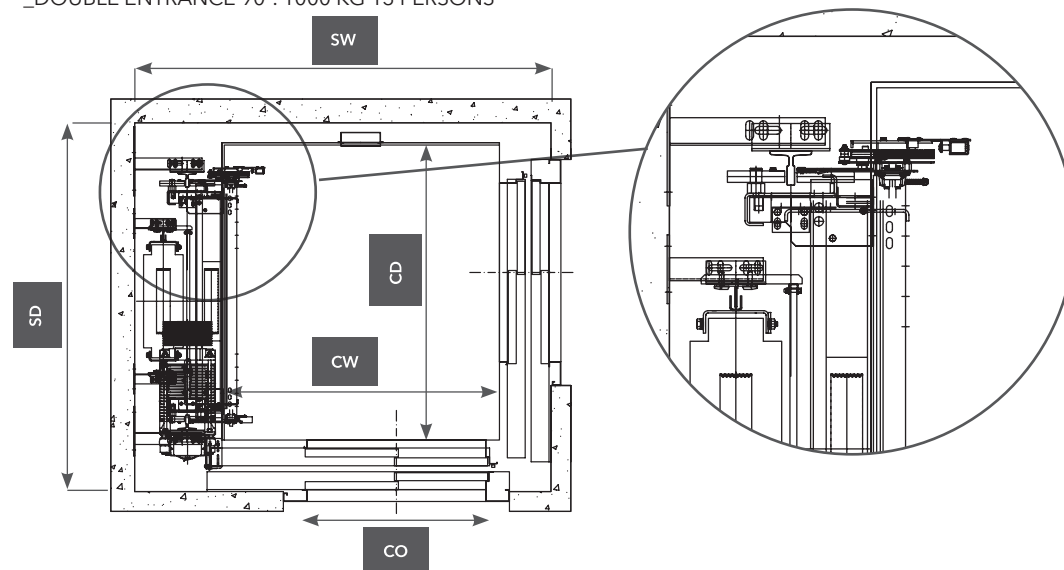
### \_TECHNICAL DIMENSION. 320 KG 4 PERSONS



### \_SPECIAL DOUBLE ENTRANCE 90°. 225 KG 2 PERSONS



### \_DOUBLE ENTRANCE 90°. 1000 KG 13 PERSONS







## HOMELIFT

Home Office solution.

Minimum Pit 100mm.

Machinery Directive compliant

Speed: 0.15m/s

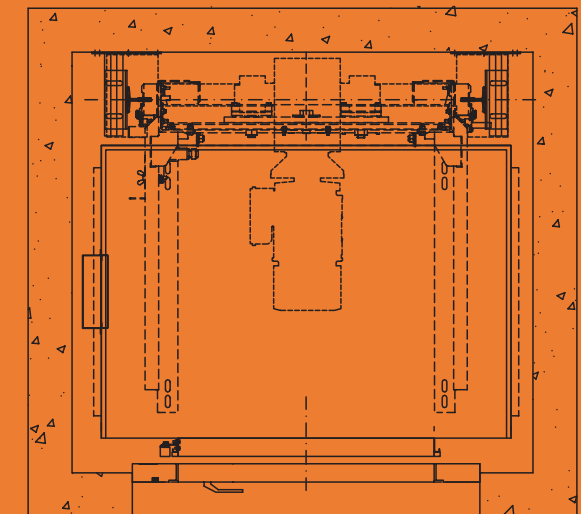
385kg capacity

This is a personal lift that can be installed either in homes or at the workplace.

We offer two homelifts designed by our team of highly qualified professionals:

-Beltus, the traction homelift.

-MyDomestic, the hydraulic homelift.



## BELTUS TRACTION HOMELIFT

### ADVANTAGES

#### Maximum safety:

We have extensively studied its structure in order to guarantee the lift safety levels.

#### Decorative adaptability:

Beltus can be provide the same decoration as any other lift (car model, automatic doors, etc.).

#### Single-phase:

Operating on a single-phase supply 220 V.

#### Easy maintenance:

It is without cables. The toothed belt avoids the replacement due to roping.

#### Environmentally-friendly:

Without oil or bad smells.

#### Optimisation of space::

Best optimization available shaft.

#### Emergency:

We have equipped it with a rescue system that makes it possible to evacuate people in the event of a power failure.

#### Without machine room.

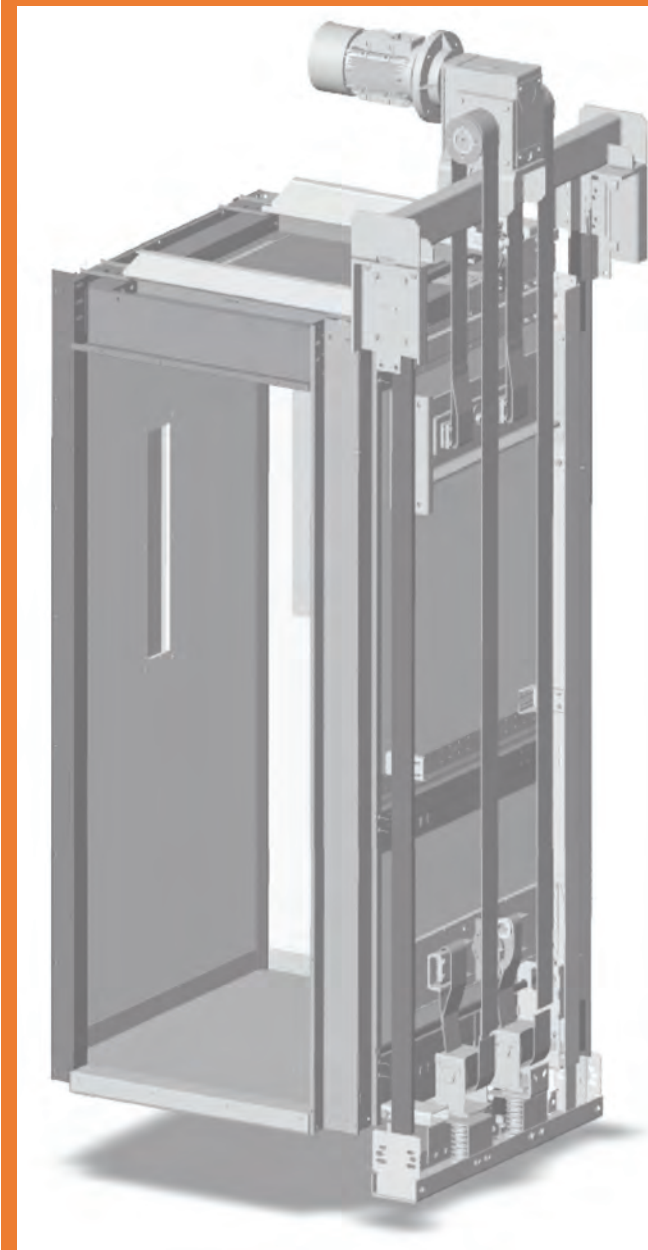
### MAIN CHARACTERISTICS

The feature that differentiates our product from the other traction homelifts on the market is the use in **Beltus** of toothed belts instead of cables in order to eliminate the counterweight.

Toothed belts provide longer durability and lifetime to avoid thread galling and periodic replacements.

Furthermore, in **Beltus the space of the shaft is exploited to the full**: there aren't neither the counterweight nor the machine room.

The machine is always placed within the shaft without needing more space than hydraulic lifts. The frame is the same but has been adapted since the counterweight and the rope anchorage have been eliminated and the toothed belts fixed.





### Technical characteristics:

- **Nominal speed** 0,15 m/s
- **Nominal load** up to 385 kg
- **Output (single-phase)** 3.2 kW máx.
- **Minimum headroom** 2.600 mm.
- **Minimum pit** 100 mm.
- **Travel** 24 m.

### \_WITHOUT DOORS

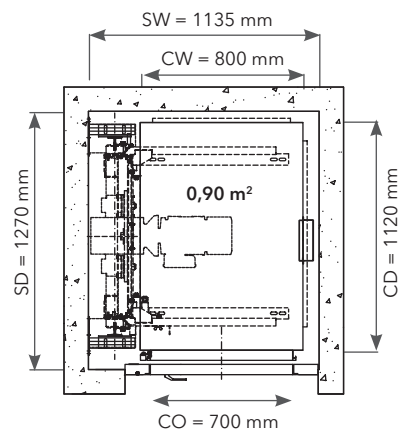
Q (KG)	SW	SD	CW	CD	CO
180	1035	1170	700	1020	600
225	1135	1270	800	1120	700
300	1355	1350	1000	1200	800
350	1435	1350	1100	1200	900
385	1435	1550	1100	1400	900

### Surfaces

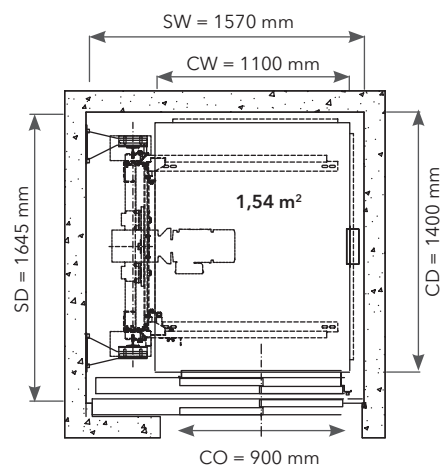
Q (kg)	Surface	No. Persons
225	0,90 m <sup>2</sup>	3
300	1,20 m <sup>2</sup>	4
350	1,40 m <sup>2</sup>	4
385	1,54 m <sup>2</sup>	5

### \_DRAWING OF LANDING

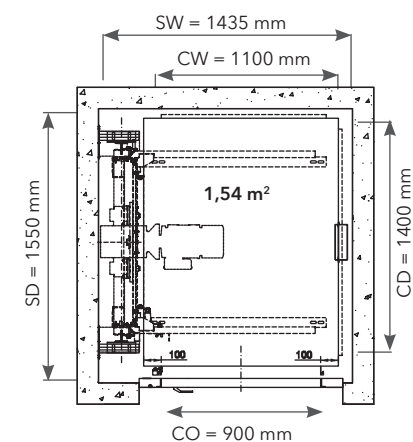
#### \_BELTUS 225 KG WITHOUT DOORS



#### \_BELTUS 385 KG AUTOMATICS DOORS



#### \_BELTUS 385 KG WITHOUT DOORS



### \_CERTIFICATE



## MYDOMESTIC HYDRAULIC HOMELIFT

The hydraulic equipment is exclusively designed for carrying people, providing an unprecedented level of comfort. Furthermore we guarantee a maximum of safety with reference to European Standards 81.41

**Obligatory prefabricated cupboard or Machine room.**

### Cabinets



We have a preassembled KIT MHL-KOMPACT, which is a complete cabinet + main unit + electrical panel, already assembled, pre-wired, and tested from the factory. This makes commissioning easier ( Plug & Play)

Cabinet model	Width (mm)	Depth (mm)	Height (mm)
KIT MHL-KOMPACT	500	250	1500
TIPO 3	700	400	1306

### ADVANTAGES

#### Maximum safety:

We have extensively studied its structure in order to guarantee the lift safety levels.

#### Decorative adaptability:

Beltus can be provide the same decoration as any other lift (car model, automatic doors, etc.).

#### Single-phase:

Operating on a single-phase supply 220 V.

#### Optimisation of space::

Best optimization available shaft.

#### Emergency:

We have equipped it with a rescue system that makes it possible to evacuate people in the event of a power failure.

#### Without machine room.





### Technical characteristics:

- **Nominal speed** 0,15 m/s
- **Nominal load** up to 500 kg
- **Output** 4.3 kW máx
- **Minimum headroom** 2.300 mm<sup>(1)</sup>
- **Minimum pit** 100 mm<sup>(2)</sup>
- **Travel** 24 m.

<sup>(1)</sup> In case the car is supplied without doors.

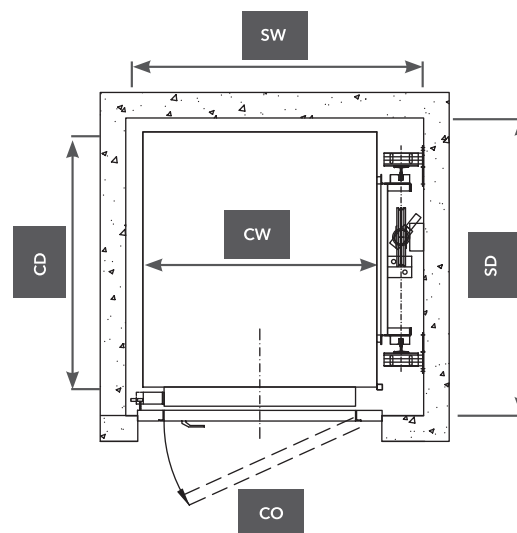
<sup>(2)</sup> Up to 385 kg, minimum pit 100 mm. For 400 kg, 450 kg and 500 kg, minimum pit 200 mm.

### Surfaces

Q (kg)	Surface
180	0,72 m <sup>2</sup>
225	0,90 m <sup>2</sup>
300	1,20 m <sup>2</sup>
350	1,40 m <sup>2</sup>
385	1,54 m <sup>2</sup>
400	1,60 m <sup>2</sup>
450	1,80 m <sup>2</sup>
500	2,00 m <sup>2</sup>

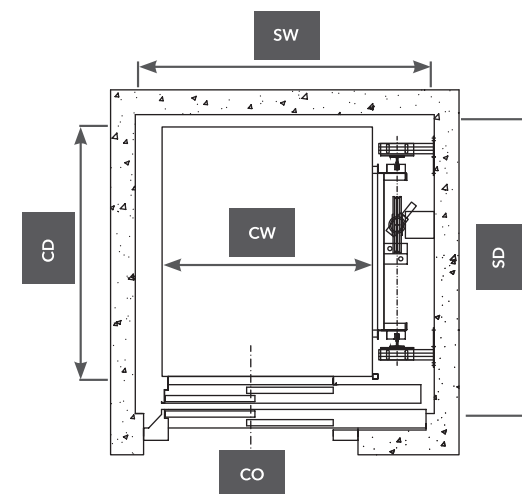
### \_DRAWING OF LANDING

#### \_SEMI-AUTOMATIC DOOR



Q (KG)	SW	CW	SD	CD	CO
180	1100	1100	800	900	700
225	1300	1100	1000	900	700
300	1300	1400	1000	1200	800
350	1400	1400	1100	1200	900
385	1450	1600	1100	1400	900
400	1400	1650	1100	1450	900
450	1580	1670	1200	1500	900
500	1580	1770	1200	1600	900

#### \_AUTOMATIC DOOR



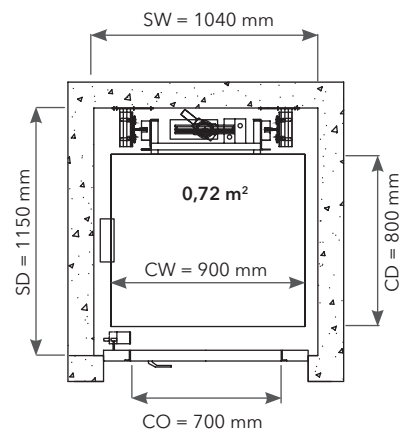
Q (KG)	SW	CW	SD	CD	CO
180 <sup>(3)</sup>	1150	1150	800	900	700
225	1250	1250	900	1000	700
300	1400	1450	1000	1200	800
350	1400	1450	1100	1200	800
385	1550	1650	1100	1400	900
400	1480	1670	1100	1450	800
450	1580	1720	1200	1500	900
500	1580	1820	1200	1600	900

<sup>(3)</sup> Door with 3 panels

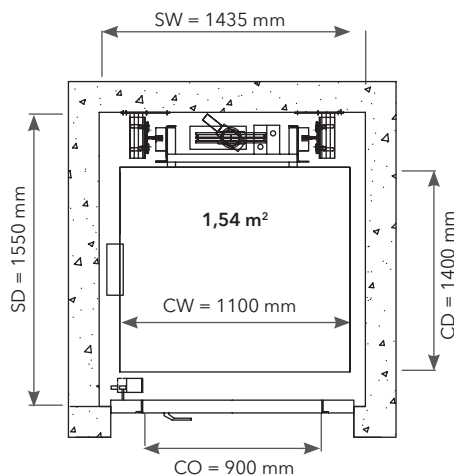
SW Shaft Width      CD Car Depth  
SD Shaft Depth      CO Car Opening  
CW Car Width

## \_DRAWING OF LANDING

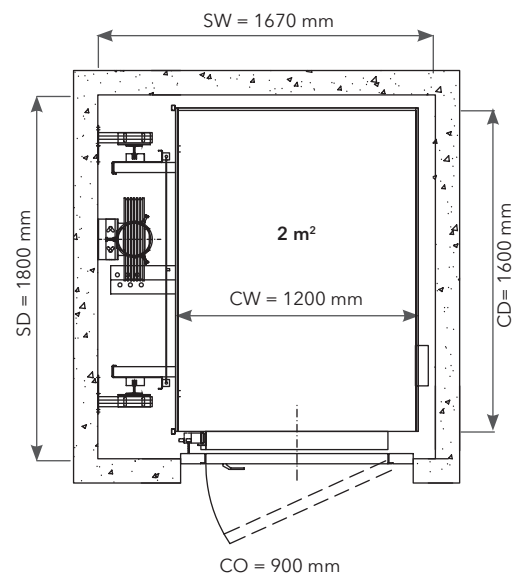
\_180 KG CAR 900 X 800 MM



\_385 KG CAR 1100 X 1400 MM



\_500 KG CAR 1200 X 1600 MM



## \_CERTIFICATE



## SINGLE-PHASE (0,15 M/S)

In order to satisfy specific demands, such as homelift single-phase 0,30 m/s., we already develop a solution through electrical panels which include a frequency converter, which transforms the single-phase voltage into 3-phase power for the central motor.

At the same time, the entire motor unit control is performed during the upward movement, managing to reduce the starting consumption and regulate the acceleration and deceleration ramps in an optimal way.



The lowering movement is done through 2 speed valves with a Blain cushioned stop.

Finally, we add a double safety valve, consistent in additional lowering valve connected to the final hydraulic central circuit.

With this combination we get a great comfort both uphill and downhill.

Depending on the load and the travel we can use 3, 4,5,5 ó 6,5 HP motors.





## STRUCTURES

These internal and external structures eliminate the need to construct reinforced concrete or block shafts, are extremely fast to install and have a huge range of finishes available.

The structures for the Lifts and the Domestic Lifts give us flexibility, by eliminating the architectural barriers and giving solutions for the total accessibility.

## ADVANTAGES

The works and assembly time are reduced by over 60% on an installation with traditional construction system, with a clean, fast and quiet product.

Absolutely respectful with the environment, both in their assembly process and industrial development.

Its easy assembling, makes this product highly simple to work, complying with the higher security standards.

## CHARACTERISTICS

Multi-purpose technical solution for every building, they can be adapted to the different constructive requirements. TC series are designed to be integrated in the existing building and its environment. Full bespoke design option is available to meet your specific needs.



### \_Types of enclosures:



Transparent butyral glass



Frosted butyral glass



Blind plate



Perforated plate



Total glass

### \_Types of brackets:



Clap



Button Glass

### \_Options and accessories:



Ceiling (metal sheet or glass)



Door over door (metal sheet or glass)



Handrail



Ventilation

### \_Colors:

RAL 9002	RAL 1015	RAL 7032	RAL 7001	RAL 8003
RAL 3004	RAL 6005	RAL 5003	RAL 9005	OXIRON



## CAR MODELS:

### L01



#### Walls



F0190 Finn Beech  
Laminated

Stainless steel omega profile



#### Floor

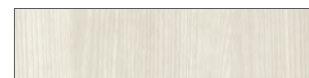


Rubber circles black

### L02



#### Walls



F8841 White Ash  
Laminated

Between slats straight



#### Floor



Rubber circles black

### CH01



#### Walls



Water blue RAL 5021  
Painted plate

Slat no separation



#### Floor



Rubber circles black

### S01



#### Walls



Skinplate White

Slat no separation



#### Floor



Rubber circles black

## L03



## Walls



F6307 Burnt Strand  
Laminated

Smooth panel



## Floor



Rubber circles black

## L04



## Walls



F1139 Cherry tree  
Laminated

Smooth panel



## Floor

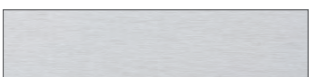


Rubber circles black

## I01



## Walls



Satin Stainless Steel

Between slats straight



## Floor



Rubber circles black

## Quartz



## Walls



Red RAL1586  
Tinted Glass

Smooth panel



## Floor



Anti slip rubber grey



## CAR FINISHES

### Walls

#### Skinplates



White



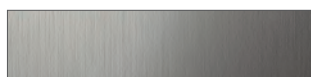
Cream



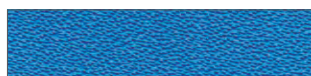
Grey



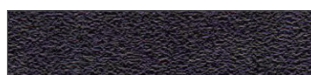
Stainless Steel



Simil stainless



Blue



Black

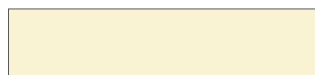
#### Painted Plate



White RAL 9016



White Pearl RAL 1013



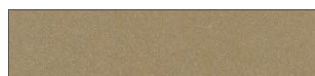
Cream RAL 9001



Grey RAL 7032



Beige RAL 1019



Beige Pearl RAL 1035



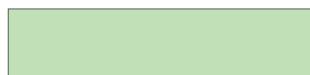
Metallic grey RAL 9006



Light Grey RAL 9022



Dark Grey RAL 7010



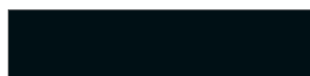
Green RAL 6019



Water blue RAL 5021



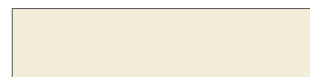
Pigeon blue RAL 5014



Black RAL 9005

#### Tinted glass

##### Mate



White Pearl RAL 1013



Bronze



Green RAL 8615



Blue RAL 7000



Silver

##### Gloss



Pure White RAL 9003



Light Brown RAL 1236



Dark Brown RAL 8017



Red RAL 1586



Orange RAL 2001



Black RAL 9005



Metallic Grey RAL 9006



Aluminum RAL 9007



Green RAL 8615



Green Pistachio

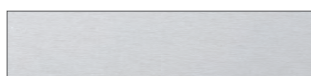


Blue RAL 5002



Black Starlight RAL 0337

#### Stainless Steel



Satin



Polished



Leather



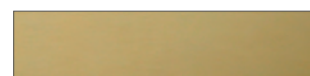
Canvas



Linen

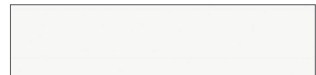


Checks



Gold

## Laminated



F2274 White Polar



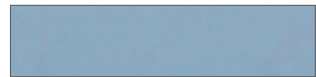
F2273 Seringa



F2833 SandStone



F2200 Dark Chocolate



F7884 China Blue



F2478 Bermuda



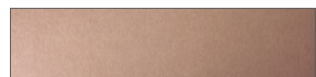
F1997 Oceano



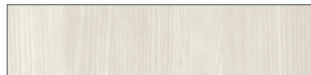
F7927 Folkestone



F7837 Graphite



F8975 Patina Brush



F8841 White Ash



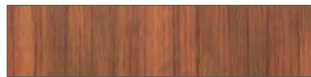
F0190 Finn Beech



F1139 Cerezo



F4062 Smoked Oak



F8849 Natural Teak



F8848 Blackened Legno



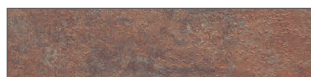
F6307 Burnt Strand



F8830 Elemental Concrete



F8833 Elemental Graphite



F8832 Elemental Corten

## Gloss



F3091 Crystal White



F7912 Storm



F7914 Marine Blue



F1238 Carnaval

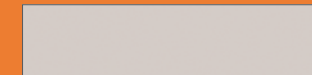


F6903 Cassis

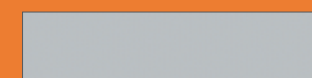
Colors shown may vary from the actual color depending on the computer monitor settings or the printing conditions.

## NOT IN COMPLIANCE WITH THE STANDARD EN 81.20

### Melamin



Cream



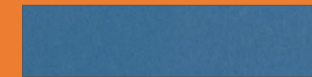
Grey



Chocolate



Green



Blue



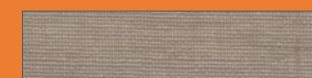
Cervino Pine tree



Beech



Cherry tree



Habana Linen



Dark Oak

**CAR FINISHES****Floors****Rubber circles 4,5 kg/m<sup>2</sup>**

Grey



Black

**Metallic floor**Aluminum checkerboard 6 Kg/m<sup>2</sup>Stainless steel 12 Kg/m<sup>2</sup>Steel durbar plate 36 Kg/m<sup>2</sup>**Anti slip rubber 4,5 kg/m<sup>2</sup>**

Beige



Sand



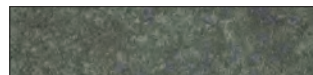
Oak



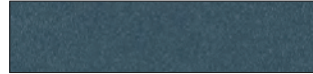
Grey



Grey granit



Grey concrete



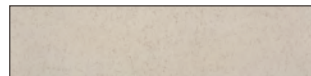
Blue



Black

**Artificial stone 49 kg/m<sup>2</sup>**

White North



Phoenix



Royal Reef



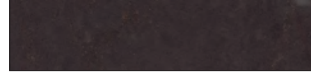
Iron Bark



Grey Expo



Concrete Spa



Merope



Black Starlight

**Natural granite 56 kg/m<sup>2</sup>**

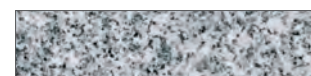
White Crystal



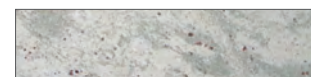
Pink Porriño



Grey Perla



Grey Quintana



Andromeda



Shivakashi



Juparana colombo



Paradiso bash



Light Blue Labrador



Dark Blue Labrador



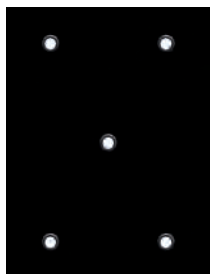
Black South Africa



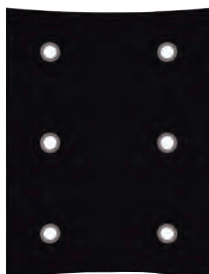
Intense Black



## Ceiling



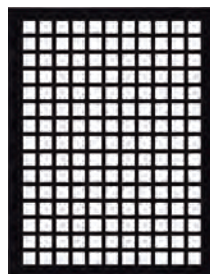
LED spots



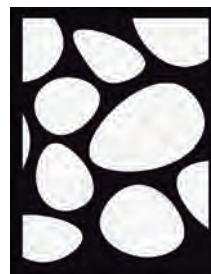
LED spots curved



Panel LED



Mosaic



Stones



Mondrian



Brics



Natura

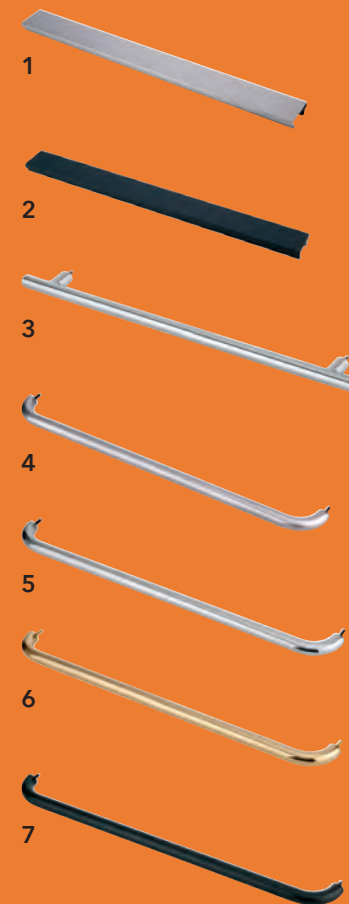


Frame



Tinted glass

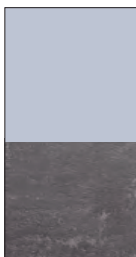
## Pasamanos



1. Rectangular stainless steel.
2. Rectangular skinplate.
3. Straight tubular polished St. Steel.
4. Curved tubular satin St. Steel.
5. Curved tubular polished St. Steel.
6. Curved tubular gold.
7. Curved tubular painted black.

## CAR FINISHES

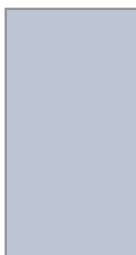
## Mirror



1/2



Mirror slat

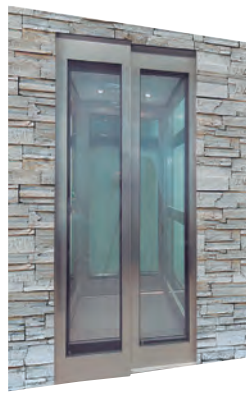


Full mirror

Mirror finishing: silver. Other finishing: bronze, white or aged, CONSULT.

## Doors

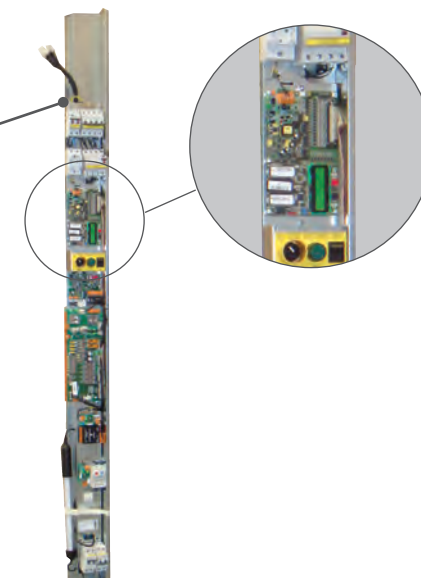
## Automatic door

Primed  
Stainless steel

Big vision panel

Folding door big  
vision panelComplete glass stainless  
steel frame

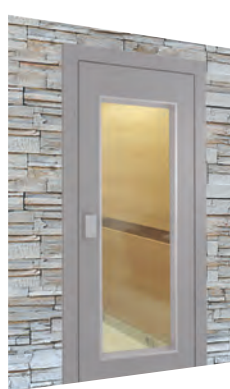
## Control panel inside frame door



## Semiautomatic door



Vision panel



Big vision panel



Complete glass

## Door finishes



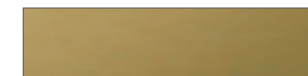
Grey RAL 7032



Leather



Satin



Gold

Availability of different RAL colours. Please ask.

## Operating panels

### Car

#### \_Standard



Length 1960 mm

Standard only for lifts. For Homelift, will go without display.

#### \_Lighting



#### \_Epsilon



#### \_Glass



#### \_Type handrail (EN81.70)



### Landing



With engraving  
on steel plate



With transparent  
plate

### Push button



Bas 120



Bas 120 Black



RT42



MD7



Epsilon



B 50 Q

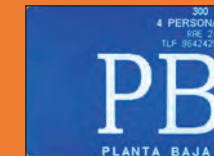
## Display

### MINI LCD



Display E-3"

### LCD



Display E-5,7"

### TFT



Color CS-2,8"



Color CS-5,6"



Color E-5,7"



## OUR GOAL.

iLift's quality policy has an objective, to best source, best deliver and best support our products.

### WE BEST SOURCE

Independent Lift Company Ltd has sourced and approved quality European lift manufacturers to provide specialist lift solutions for our customers. We offer competitive advantage, through our long standing partnerships with these suppliers, who have both innovative products and an understanding of what is required for the European and Irish lift market.

All our suppliers are qualified and rated using our ISO 9001 Quality management system.

### WE BEST DELIVER

We consult carefully with our customers to understand their particular business requirements in detail, before developing bespoke lift solutions with their professional design teams. We specify and source the most suitable lift equipment, and work closely with the project delivery team to ensure a safe and efficient installation on site.

The successful handover of a high quality lift installation in compliance with all required lift regulations is always our ultimate objective. Our lift installation process for the supply, installation and final test of new passenger lifts within the scope of EN81-20, EN81-21 and EN81-50 is carefully managed, audited annually and certified by a European Notified Body for compliance with the Lift Regulations.

### WE BEST SUPPORT

Independent Lift Co. Ltd is also a 'Service and Maintenance' provider, offering 'Service Level Agreements' tailored to the specific site requirements of our customers.

We provide complete product life cycle partnership, from handover of the lift installation, through an extended warranty period, to preventative maintenance.

We also provide Repair and Refurbishment services to keep your lifts operating at optimum performance in order to serve the ever changing needs of a modern building.

## STANDARDS

At iLift, we have spent the last few years improving and refining our lifts as well as creating all types of solutions for different shafts.

**AENOR**  
Confia



### Directive of elevators 2014/33/UE, appendix XI, module H1

EN 81.20 - 81. 50	Security guideline for construction and installation of lifts.
EN 81.21	Security guideline for construction and installation of lifts. Passenger and freight lifts. Part 21: New passenger and freight lifts in already existing buildings.
EN 81.28	Remote alarm on passenger and goods and passenger lifts, especially those covered by the EN 81 Standards.
EN 81.58	Specification for the test method to determine the fire resistance test of the landing doors <sup>(1)</sup> .
EN 81.70	Minimum requirements for the safe and independent access and the use of the lifts by disabled persons (Addenda included in standard). This norm proposes 3 different levels of accessibility: type 1, type 2 y type 3 <sup>(2)</sup>
EN 81.71: 2005	Particular applications to passenger lifts and goods passenger lifts - Part 71: Vandal resistant lifts.
EN 81.72	Security guideline for construction and installation of lifts. Particular applications for the passenger lifts and passengers and freight lifts. Part 72: Firefighting lifts
EN 81.73	Security guideline for construction and installation of lifts. Particular applications for the passenger lifts and passengers and freight lifts. Part 73: Behaviour of lifts in the event of fire
EN.81.76	Security guideline for construction and installation of lifts. Particular applications for the passenger lifts and passengers and freight lifts. Part 76: Evacuation of disabled persons using lifts.
VDI 4707	Energy efficiency of lifts.
VDI 2566	Acoustic design for lifts without machine room

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VDI 2566	Acoustic design for lifts without machine room

### Exceptions of adapted norms of directive 2014/33/UE

- \_ Car lift with area greater than.
- \_ Instalation of 6,5 mm supporting rope.

### BELTUS EC Examination of the Directive 2006/42/CE type for electrics platforms.

#### IMQ certificate No. 50AQ00041

This is a personal lift that can be installed either in homes or at the workplace. The electric equipment is exclusively designed for carrying people, providing an unprecedented level of comfort.

### MYDOMESTIC EC Examination of the Directive 2006/42/CE type for hydraulics platforms.

#### IMQ certificate No. 50LR00058

This is a personal lift that can be installed either in homes or at the workplace. The hydraulic equipment is exclusively designed for carrying people, providing an unprecedented level of comfort.

Conforms to the provisions of Directives:

2006/95/CE Low Voltage Directive.

2004/108/CE Electromagnetic Compatibility Directive

### Harmonised Standards:

UNE-EN81.41 Vertical platforms for use by disabled people.

UNE-ENISO12100-1

UNE-ENISO12100-2

UNE-ENISO14121-1

UNE-EN60204-1

### Components Regulation Certificates Directive 2014/33/UE

- \_ Landing door locks.
- \_ Parachute valve.
- \_ Parachute.
- \_ Speed limiter.
- \_ Safety circuit.
- \_ UCM.

### Other components certifications 2014/33/UE

- \_ <sup>(1)</sup>Fire resistance test for lift doors according to EN 81.58

Tipo	Term	Period (min.)	Explanation
Integrity	E (PF)	30, 60, 120 (others)	The non-presence of flames on the opposite side of the door. Nomenclature: E-XXX (EN 81-58), PF-XXX (Spain, France, Belgium and UK), A-XX (Switzerland)
Isolation	EI (RF)	30, 60, 120 (others)	The average temperature is measured with thermocouples on the opposite side of the door. Nomenclature: EI-XX (EN 81-58), RF-XX (Spain and UK), REI-XX (Italy), A-XX (Sweden), EI-XX (Russia) and F-90 (Germany).
Radiation	EW	30, 60, 120 (others)	The non-radiation of the door is measured at a point located at one meter of distance from the centre of the door.

- \_ Hydraulic Hose Test Certificate.
- \_ Traction cables certifications.
- \_ CE declaration reg. Car manufacturing.
- \_ CE declaration reg. car frame manufacturing.

Subjected to structural tests in the laboratories of the Technological Institute of Aragon (ITA) (Spain), an entity specialised in vertical transport technologies. Amongst these were a bench fatigue test, simulating situations that are more severe and arduous than real ones, and a free fall test in a test tower with a load greater than the maximum allowed.

### IP Protection Degree

Equipment designed to work in hostile environments must meet certain standards to ensure its reliability and allow the user to know how far they can go in its use.

The IP rating system provides a means of classifying the degree of protection for solids (like dust) and liquids (like water) that the equipment must meet. The system is recognized in most countries and is included in several standards, including IEC 60529.

First Figure			Second Figure	
IP	Protection against direct electrical contacts	Protection against penetration of solid foreign bodies	IP	Protection against penetration of water
0	No protection	No protection	0	No protection
1	Penetration with hand	Bodies $\varnothing > 50$ mm	1	Vertical dripping
2	Penetration with finger $\varnothing > 12$ mm and 80 mm length	Bodies $\varnothing > 12,5$ mm	2	Diverted dripping 15° to the vertical
3	Penetration with tool	Bodies $\varnothing > 2,5$ mm	3	Rain. Diverted dripping 60° to the vertical
4	Penetration with wire	Bodies $\varnothing > 1$ mm	4	Projections of water in all directions.s
5	Same as 4	Dust can penetrate in non-harmful quantities	5	Water jets in all directions
6	Same as 4	No penetration of dust	6	Powerful jets of water in all directions

(2) **Type 1:** The car has space for a wheelchair, manual or electric of class A.

**Type 2:** The car has space for a wheelchair and a companion. The wheelchair can be manual or electric of the classes A or B.

**Type 3:** The car has space for a wheelchair and other passengers. The wheelchair can be manual or electric of the classes A, B or C. It also allows turning the wheelchairs, class A and B inside the car and persons with walking aids to walk inside of it (people with walking frames...)

#### Types of wheelchairs (According to EN 12184):

\_ Class A: Compact, easy to handle. Wheelchair is not necessarily able to avoid obstacles outdoors

\_ Class B: Wheelchair compact and handy enough for some areas inside and capable to get over certain obstacles outdoors.

\_ Class C: Wheelchairs, usually of a large size, not necessarily for inside use, but capable to travel longer distances and to avoid obstacles outdoors.