



# Index

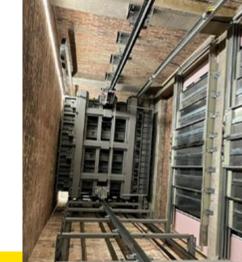


# ○ Product development

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Symbio is an electric lift with or without a machine room, capable to adapt to any shaft needs, pit and/ or headroom.

Wide loads spectrum.

# **▶** Applications

Residential building
Shopping centres
New development
Hotels
Hospitals
Offices
Bedlifts
High rise installations
High traffic

## **Advantages**

Available for new buildings as well as for existing shafts with reduced pit or headroom (EN81.21).

#### **Versatile:**

There is no need for a designated machine room area, this allows greater space utility within the building. Even though it is the quintessential new development lift, it can adapt to almost any shaft dimensions including special shafts.

#### Flexibility/adaptability:

Customer tailored. Extensive load range, sizes, and speeds. Robust, resistant, and trustworthy. Able to locate operation control panel within the door frame (120mm width) as well as on the landing. Power supply either single-phase or three-phase.

#### Comfort:

It guarantees a high level of comfort and minimal noise during its travels thanks to a centred arcade sling and 2:1 roping.

#### **Great durability:**

Reduced maintenance. The equipment has a long-life expectancy and nearly non-existent repairs.

#### **Easy installation:**

Mature design plug and play. Bedplate resting on the guides to minimise space.









## **Technical characteristics**

300 - 1.600
0,5 - 3,0
CCM / SCM
Up to 100
2:1
6,5 - 8,0

#### **Guiding system**

Buffered guide shoes for greater comfort.

Q (Kg)	Minim	um Pit (mm)	Minimum He	eadroom
(mm)	Min pit	Necessary headroom	Min headroom	Necessary pit
450	340	3.370	2.985	615
630	340	3.370	2.985	660
1.000 <sup>(2)</sup>	340	3.370	3.000	660
1.000 <sup>(3)</sup>	345	3.415	3.090	680
1.600	450	3.540	3.330	705

0 - 180°

#### **Entrance**

Automatic - Semiautomatic

**Door type** 

Yes

#### Panoramic/scenic car options

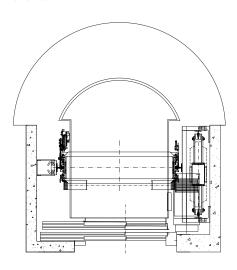
Yes

#### Weatherproof

- (1) Data for installations at 1m/s. Headroom calculated with 2.005 mm car internal height.
- (2) Minimum headroom & pit for P+Q up to 1.933 kg.
- (3) Minimum headroom & pit for P+Q up to 2.750 kg.

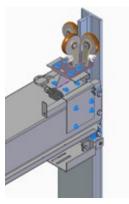
## Special solutions.

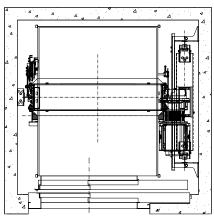
Possible configurations for irregular shafts.



## High speeds Up to 3m/s.

For speed ≥ 1,6m/s, car frame with triple rollers. Maximum comfort.





**Guiding system** 

# **Technical characteristics Symbio HR**

Rated load (Kg)	300 - 1.600
Rated speed (m/s)	0,5 - 1,0
Machine room	CCM / SCM
Travel (m)	Up to 50
Roping	2:1
Traction ropes diameter (mm)	6,5 - 8,0

Buffered guide shoes for greater comfort.

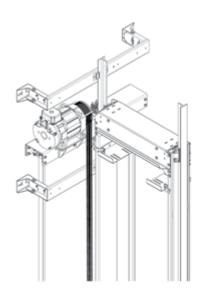
Q (Kg)	Minimum Headroom (mm) <sup>(2)</sup>		
	Min headroom	Min pit	
450	2430	615	
630	2430	660	
1.000 <sup>(3)</sup>	2430	660	
1.000 <sup>(4)</sup>	2.430	680	
1.600	2.760	705	

# Door type Automatic - Semiautomatic Panoramic/scenic car options Yes Weatherproof

- (1) Minimum headroom for lift cars EN81-70, type 2 and shaft width of 1.600 mm.
- (2) Data for installations at 1m/s. Headroom calculated with 2.005 mm car internal height.
- (3) Minimum headroom & pit for P+Q up to 1.933 kg.
- (4) Minimum headroom & pit for P+Q up to 2.750 kg.

## **Bespoke solutions**

Symbio HR Headroom 2.430 mm.<sup>(1)</sup>









# **Technical characteristics Symbio PF**

Rated load (Kg)	300-600 <sup>(i)</sup>
Rated speed (m/s)	0,5 - 1,0
Machine room	CCM / SCM
Travel (m)	Up to 50
Roping	2:1
Traction ropes diameter (mm)	6,5

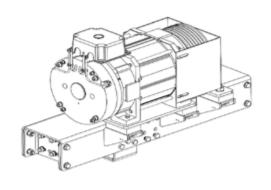
Symbio PF Shaft depth 720 mm.

Max speed lm/s Control panel on landing

## **Guiding system**

Buffered guide shoes for greater comfort.

Q (Kg)	Minimum Pit (mm)		Minimum Headroom (mm)	
	Min pit	Necessary headroom	Min headroom	Min headroom
450 630	340 340	3.370 3.370	2.985 2.985	615 660



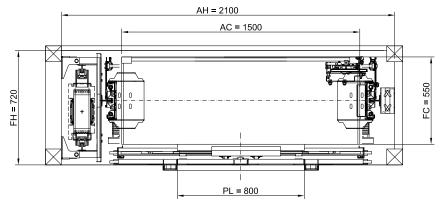
Entrance 0 - 180°

**Door type** Automatic - Semiautomatic

Panoramic/scenic car options

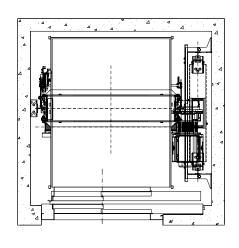
## **Weatherproof** Yes

- (1) For other loads, please consult.
- (2) Data for installations at lm/s. Headroom calculated with 2.005 mm car internal height.



# Technical characteristics Symbio G

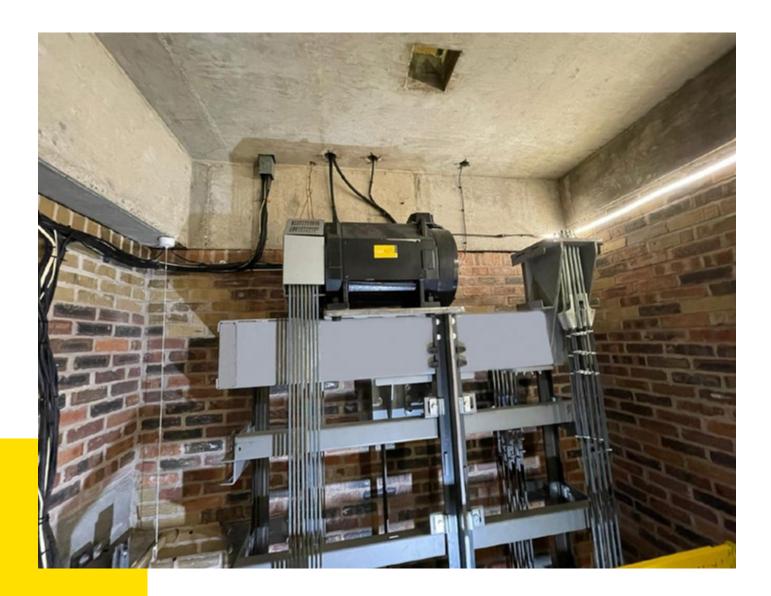
Rated load(Kg)		1.800-3.000
Rated speed (m/s)		0,5 - 1,0
Machine room		CCM / SCM
Travel (m)		Up to 70
Roping		2:1
Traction ropes diameter	(mm)	8 - 10
Guiding system	Buffered guide sh	oes for greater comfort.
Minimum pit (mm)		780
Minimum headroom (m	<b>m)</b> <sup>(1)</sup>	3.485
Entrance		0 - 180°
Door mechanism		Automatic
Panoramic/scenic car o	ptions	Yes
Weatherproof		Yes











Symbio machine room-less lift for larger duty loads with 4:1 roping.

# **▶** Applications

Shopping centres

Hotels

Hospitals

Offices

Larger loads

Industrial

# Technical characteristics Symbio GC

Rated load (Kg)	3.100 - 7.000
Rated speed (m/s)	0,5 - 1,0
Machine room	CCM / SCM
Travel (m)	Up to 70
Roping	4:1
Traction ropes diameter (mm)	10

Load (Kg)	Car Internal Height (mm)	Aprox. minimum headroom (mm)	Aprox. minimum pit (mm)
7.000	3.000	5.500	2.000
5.000	2.500	4.500	1.600
4.000	2.500	4.500	1.600

Entrances	0 - 180°
Door mechanism	Automatic
Panoramic/scenic car options	Yes
Weatherproof	Yes

# **Advantages**

#### **Confort:**

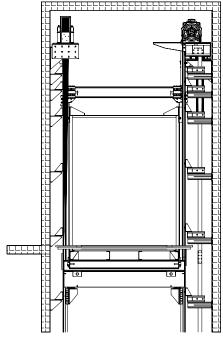
Roping 4:1 with pulleys under the car frame, providing excellent stability and great comfort.

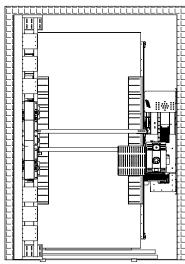
### **Easy installation:**

Self-supported Bedplate, and pulley beam suited to adapt to the shaft.

#### **Adaptability:**

Possibility of anti-creep for high specific loads.











Optimus is the traction lift with or without machine room and is the most shaft-optimised lift on the market.

# **▶** Applications

Residential
Refurbishment
Existing shafts
Modernizations
Minimum shaft dimensions

# **Advantages**

## Flexibility:

Allows single, double, and triple entrance. Ideal for 90° solutions.

#### Single-phase:

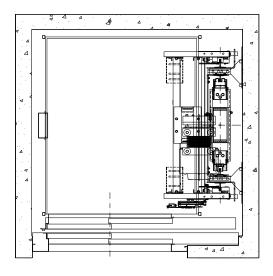
Works on any single-phase 220 V socket.

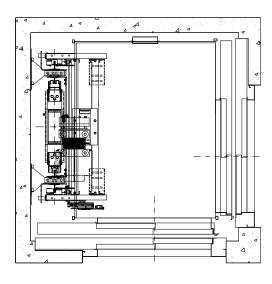
## Easy installation:

Self-supporting bed-plate easy to assemble.

#### **Adaptability:**

Possibility to design with EN 81.21 standard compensatory measures for reduced pit and headroom. Customised to each client.











# **Technical characteristics Optimus**

Rated load (Kg)	180 - 1.250
Rated speed (m/s)	0,5 - 1,0
Machine room	CCM / SCM
Entrances	0-90° - 180° - 270°
Roping	1:1 2:1
Traction ropes diameter (mm	<b>a)</b> 6,5 - 8,0
Guiding system	Special liners or rollers on the safety gear side ensure optimal operation

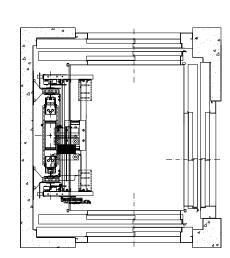
Minimum Pit (mm)		Minimum I	Headroom (mm) (1)	
Q (Kg)	Min pit	Necessary headroom	Min headroom	Necessary pit
450	300	3.400	3.225	640
630	300	3.400	3.225	640
1.250	470	3.050	3.050	470

Travel	Up to 50

Door type	Automatic - Semiautomatic
Restrictive technical measure	270
Panoramic/scenic car options	Yes
Weatherproof	Yes
Power supply	Single-phase / three-phase

<sup>(1)</sup> Data for installations at 1m/s. Headroom calculated with 2005 mm car internal height.





# **Technical characteristics Optimus FHR**

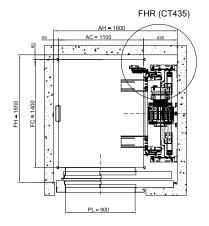
	-
Rated load (Kg)	180 - 630
Rated speed (m/s)	0,5 - 1,0
Machine room	CCM / SCM
Entrances	0-90° - 180° - 270°
Roping	2:1
Traction ropes diame	ter (mm) 6,5
Guiding system	Special liners or rollers on the safety gear side ensure optimal operation
Minimum pit (mm)	300
Minimum headroom (	(mm) <sup>(1)</sup> 2.750
Travel (m)	Up to 50
Door mechanism	Automatic - Semiautomatic
Restrictive technical r	measure (mm) 435
Panoramic car	Yes
Weatherproof	Yes
Power supply	Single-phase / three-phase

<sup>(1)</sup> Data for installations at 1m/s. Headroom calculated with 2005 mm car internal height.

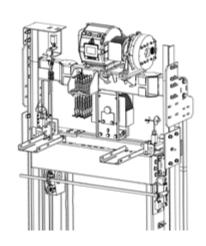
# **Bespoke Solutions**

Restrictive technical measure 435 mm.

Q max: 630 Kg (Qt max: 1550 Kg) Minimum pit: 265 mm. Minimum headroom: 2400 mm. Technical measure: 435 mm.



#### FHR-3D







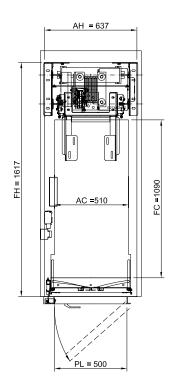
# **Technical characteristics Optimus GP**

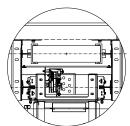
180 - 525
0,5 - 1,0
CCM / SCM
0-90° - 270°
1:1
6,5 ; 8,1
Rollers
300
If HR 2.650 mm/ If normal 3.200 mm
Up to 50
Automatic - Semiautomatic
410
Yes
Yes
Single-phase / three-phase

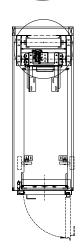
<sup>(1)</sup> Data for installations at 1m/s. Headroom calculated with 2.005 mm car internal height.

## Optimus GP Shaft width 650mm.

Q max: 525 kg (Qt max: 1.500 kg.) Min. pit: 300 mm. Min. headroom: 2.650 mm. Restrictive technical measure: 410 mm. Control panel on landing.



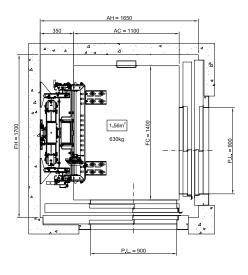




# Technical characteristics Optimus FHR PR 281

Rated load (Kg)	180 - 630
Rated speed (m/s)	0,5 - 1,0
Machine room	CCM / SCM
Entrances	0-90° - 180° - 270°
Roping	2:1
Traction ropes diameter (mm)	6,5
Guiding system	Rollers
Minimum pit (mm)	350
Minimum headroom (mm)(1)	2.460
Travel (m)	Up to 50
Door mechanism	Automatic - Semiautomatic
Restrictive technical measure (mm)	350
Panoramic car	Yes
Weatherproof	Yes
Power supply	Single-phase / three-phase

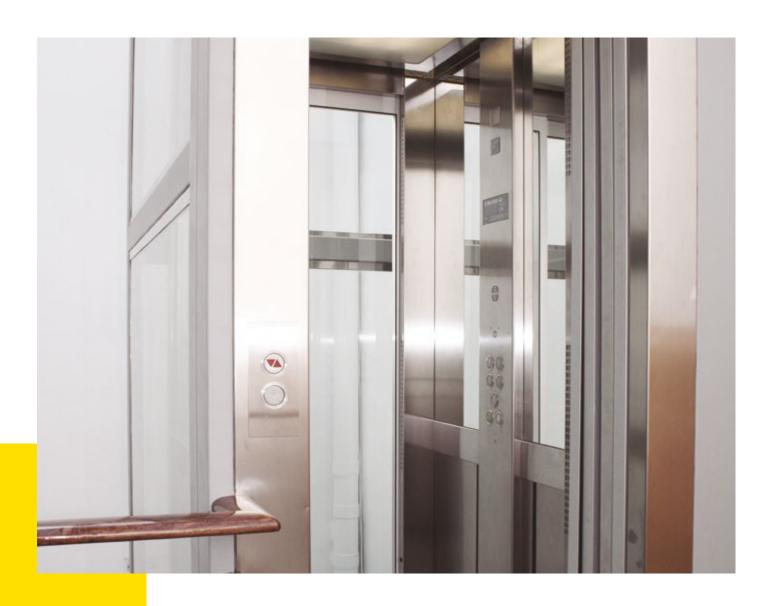
Optimus 81.70 Entrance 90°



<sup>(1)</sup> Data for installations at 1m/s. Headroom calculated with 2.005 mm car internal height.







Genesis is the conventional traction lift with machine room, available with geared or gearless machine.

# **▶** Applications

Refurbishment High rise buildings High traffic Modernizations

## Technical characteristics Genesis

Rated load (Kg)	300 - 5.000
Rated speed (m/s)	0,5 - 3,0
Machine room	CCM
Travel (m)	Up to 100
Roping	1:1 - 1:2 - 4:1
Traction ropes diameter (n	<b>nm)</b> 6,5 - 8 - 10- 12

Guiding system guide shoes >1.6 rollers

Q (Kg)	Minimum pit (mm)			m headroom (mm) <sup>(1)</sup>
	Mín. pit	Min.headroom	Min. Pit.	Min. Headroom
450	360	3.170	685	3.040
600	360	3.170	715	3.135
1.000	730	3.315	730	3.315
1.350	730	3.315	730	3.315

**Entrances** 0 - 90° - 180° - 270°

Door mechanism Automatic - Semiautomatic

Motors Geared - Gearless

Panoramic car Yes

Weatherproof Yes

## **Bespoke Solutions**

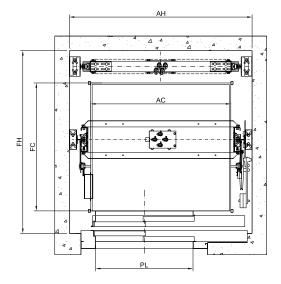
# **Advantages**

#### **Adaptability:**

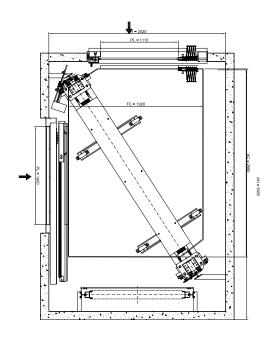
Easy to adapt to existing shafts.

#### **Versatility:**

High loads and high travel distance.



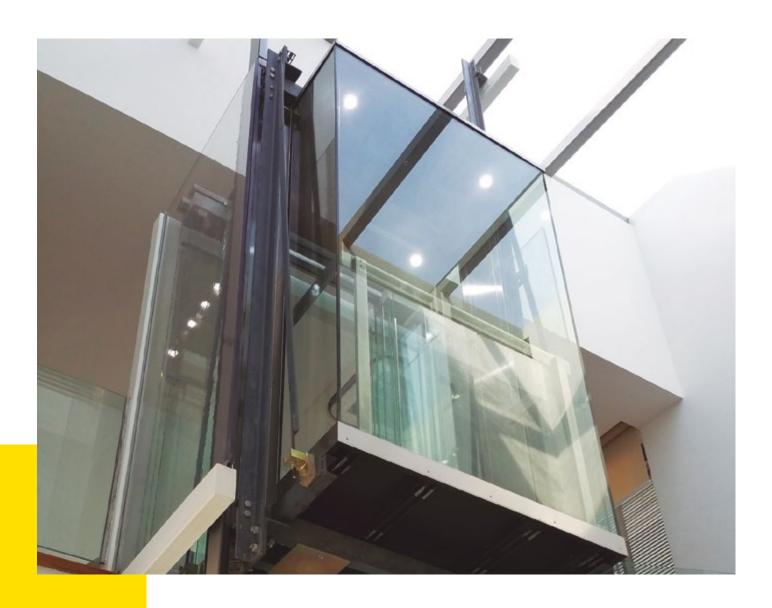
## **Diagonal Guides**



<sup>(1)</sup> Data for Installations at 1 m/s. headroom calculated with 2.015 mm cabin internal height







Hydronic is the ideal hydraulic lift for existing buildings, capable of adapting to any shaft type.

# **▶** Applications

Residential
Refurbishments
Existing shafts
Modernizations
Minimum shaft dimensions

# **Advantages**

#### **Versatility:**

We adapt each lift to each different shaft optimizing spaces.

#### Reduced pit and headroom:

In existing buildings, we adapt our lifts in compliance with the Regulations for pit and headroom. (EN 81.21).

#### **Confort:**

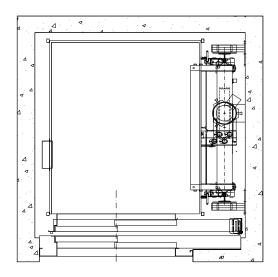
Excellent level of comfort, equivalent to a traction lift using electronic valves

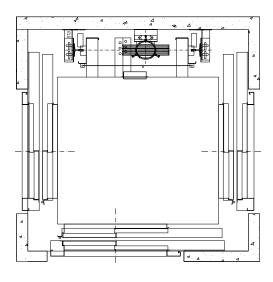
#### **Adaptability:**

Easy control and maintenance.

#### Safety:

Automatic emergency system always active during the descent, even in the event of power failure.









**Guiding system** 



# **Technical characteristics**

Rated load (Kg)	180 - 1.800
Rated speed (m/s)	0.3 - 0.63 (1m/s optional)
Machine room	MR / Power unit cabinet/ MRL Tank in pit
Entrances	0-90° - 180° - 270°
Roping	1:1 2:1
Traction ropes diameter	(mm) 8,0 - 9,0 - 10,0 - 12

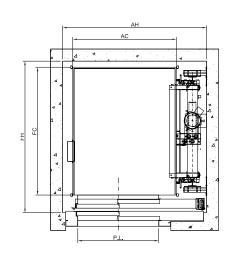
Pivoting or rollers on the safety gear side to

guarantee operation

Minimum Pit & Headroom (mm)		
Q (Kg)	Mín Pit.	Min. Headroom
320 630 1.000 1.250	255 265 350 740 740	2.720 2.660 2.860 2.860 2.860
1.600	740	2.860

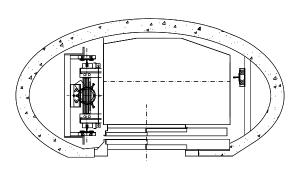


Travel	Up to 25
Door type	Automatic - Semiautomatic
Restrictive technical measure	GMV - MORIS - BUCHER
Panoramic/scenic car options	Yes
Weatherproof	Yes

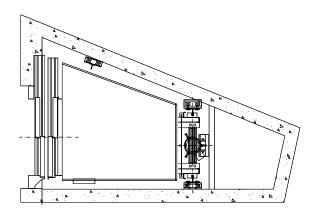


# R*A*LO€

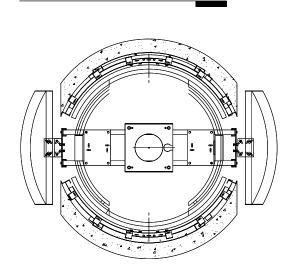
# Panoramic



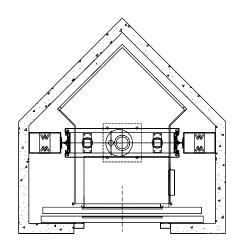
Irregular shaft



Borehole piston



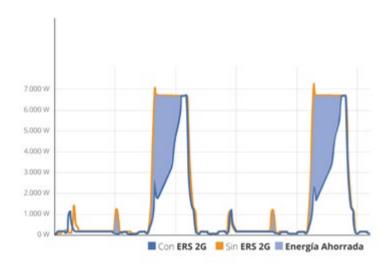






## ERS 2G - Energy Recovery System

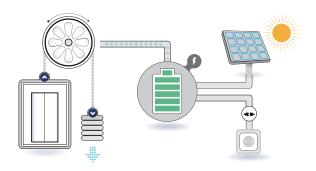




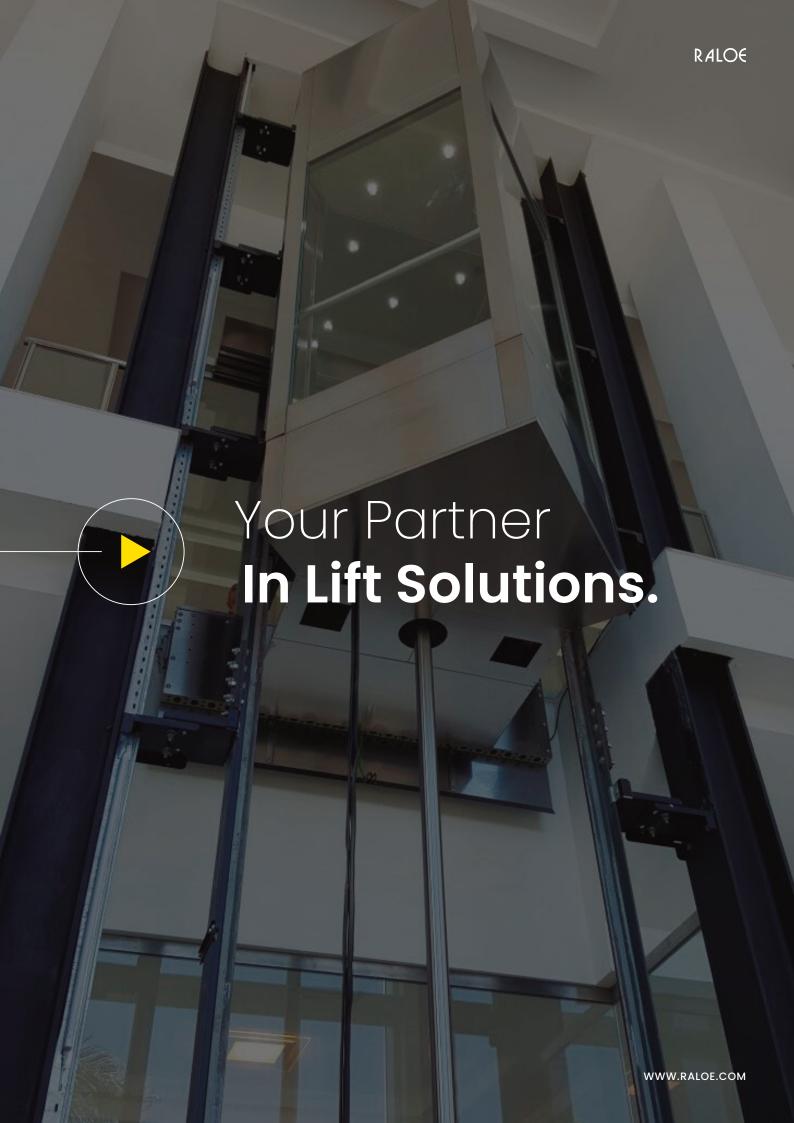
Energy Recovery System revolutionizes elevator consumption. Regenerative solution with energy storage. It recovers the energy generated by the elevator and returns it to the elevator itself, reducing traction consumption by up to 70%. Plug and play.

# P2S - plug to single-phase



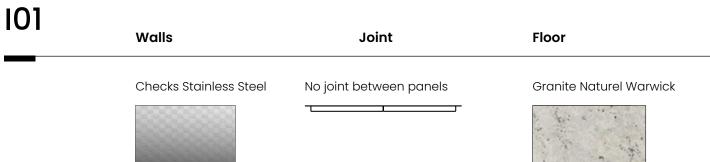


It feeds a three-phase elevator from any single-phase power supply with a maximum consumption of 500W. It allows the use of the elevator in case of power outage and allows to transform the elevator into a solar one with only 2 panels.

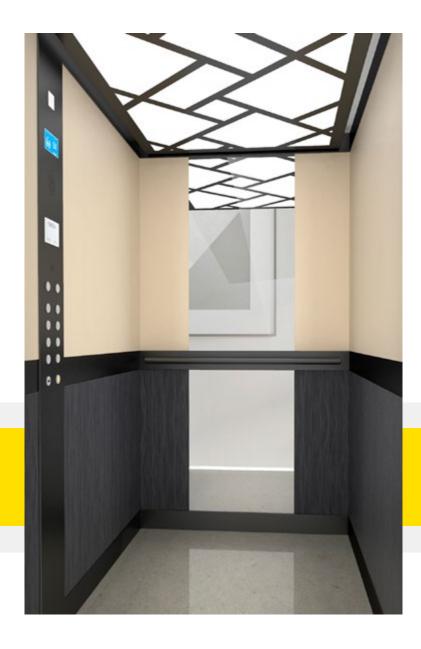












Walls

Joint

Floor

F6307 Burnt Strand

Smooth panel

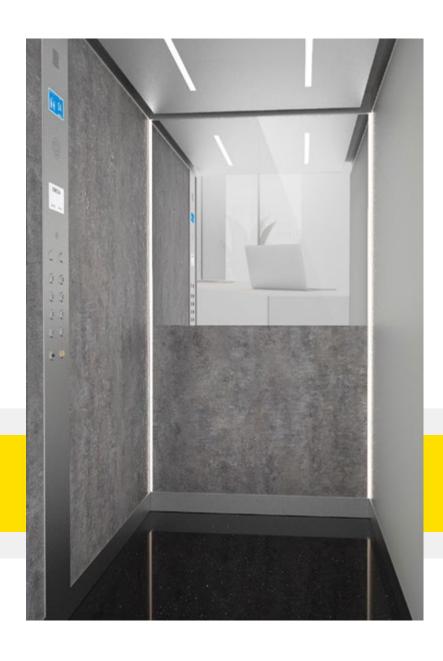
Royal Reef artificial stone

F2833 Sandstone

\*M03 also available in Melamine

Laminate





LO4
Walls Joint Car Walls Illumination

F7327 Popular Grey

No joint between panels

Vertical LED strips

F8830 Elemental Concrete



Laminate

Technical Catalogue

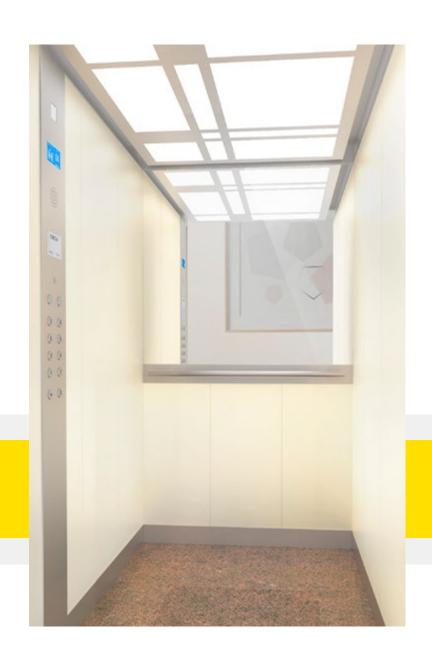
\*M04 also available in Melamine

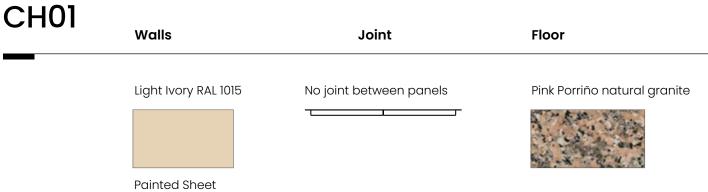




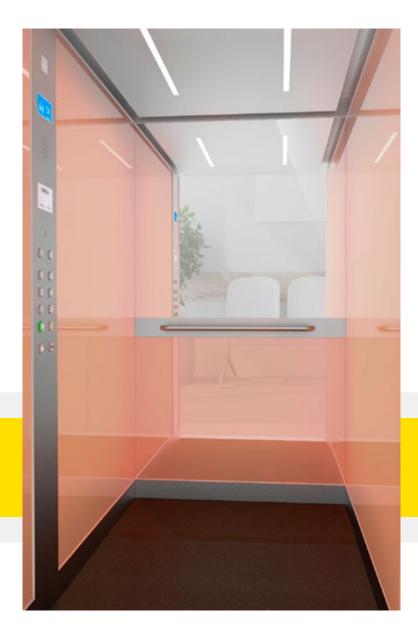
S01	Walls	Joint	Floor
	Stainless Steel Skinplate	No joint between panels	Anti-slip rubber Black











Quartz	Walls	Joint	Floor
	Terracotta Red RAL 8815	Smooth panel	Intense Black natural granite
	Back Painted alass		



#### **Matrix**

Square Shaped Cars with different in the arrangement of the glass walls.

Models M100, M200, M300: Framed glass.

Models M100d, M200d, M300d: Frameless glass.



We have a multitude of shapes for panoramic cars with one or more glass walls.

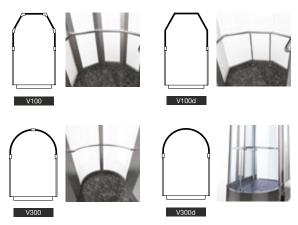


#### **Vector**

Polygonal or curved cars, with or without joints between glass panels.

Models V100, V300: Framed glass

Models M100d, M300d: Frameless glass





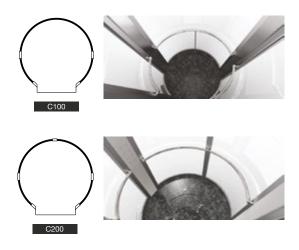


# Century

Cabinas acristaladas completamente circulares

Modelos C100: Unión entre cristales enmarcado con perfiles.

Modelos C200: Unión entre cristales sin perfiles.







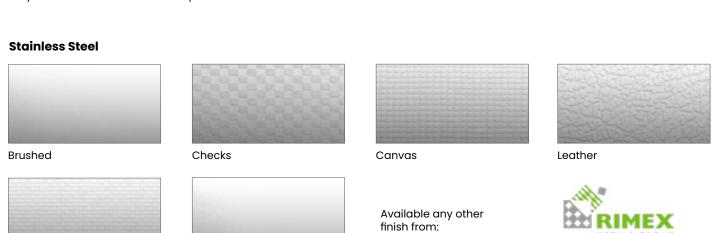
## Walls

#### **Skinplates**





<sup>\*</sup> Any other RAL available under request



Linen

Polished





## Walls

#### **Back painted glass**



Metallic grey RAL 9006



White RAL 9003



Matt Light Brown RAL 1236







Light Brown RAL 1236



Black Starlight RAL 0337



Terracotta Red RAL 8815



Green RAL 8615



White Pearl RAL 1013 (matt or gloss)



Aluminium RAL 9007



Bronze



Pistachio Green RAL 1164

#### **Back painted glass (under request)**



RAL 1586



RAL 2001



RAL 8017



RAL 9005



SILVER



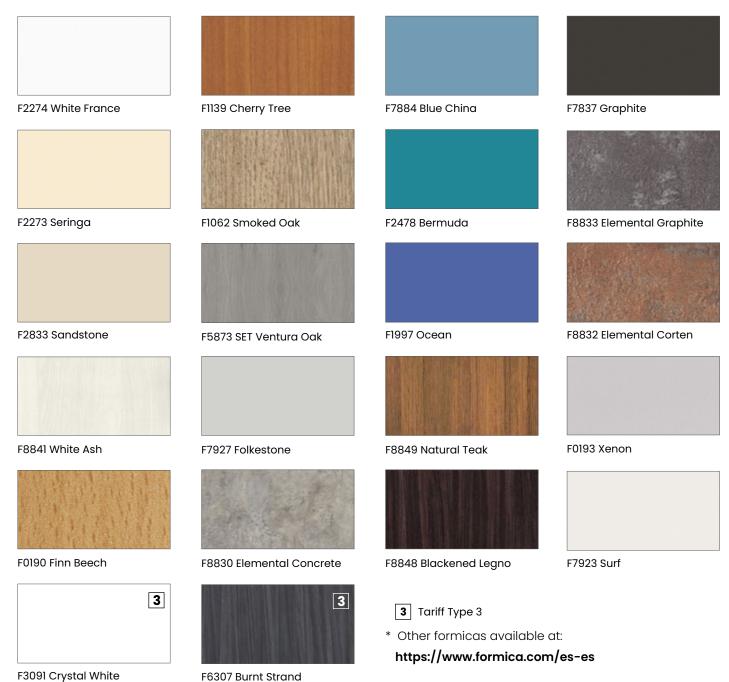
RAL 5002





### Walls

#### Laminates



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



## Walls

#### Melamina





Not in compliance with the standard EN 81.20



## **Floors**

### Anti-slip rubber 4,5 Kg / m<sup>2</sup>



Beige



Oak



Blue



Sand



Grey



Grey concrete



Black

## Artificial Stone 49 kg / m²



Grey Expo



White North



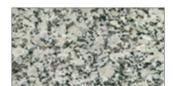
Ethereal Glow



Rougui

- 2 Tariff type 2
- **3** Tariff type 3

### Natural granite 56 kg / m²



Grey Pearl



Grey Quintana



Guyana

- 2 Tariff Type 2
- **3** Tariff Type 3
- 4 Tariff Type 4



Pink Porriño



Intense Black



Warwick Rubi



White Crystal



Black South Africa



White Trevi



Dark Blue Labrador

#### **Metallic floor**



Aluminum checkerboard 6 Kg/m²



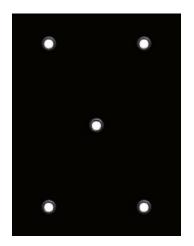
Stainless steel 12 Kg/m²



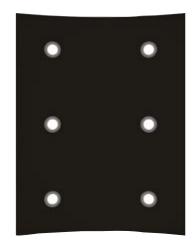
Steel durbar plate 36 Kg/m²



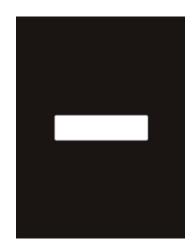
# Ceilings



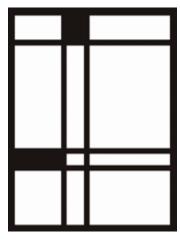
LED spots



Curved LED spots



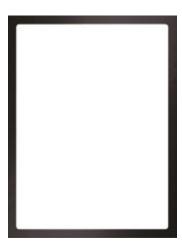
LED Strip



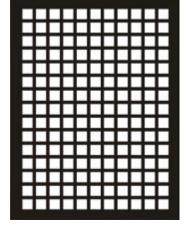
Mondrian



Arte



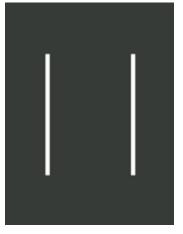
Marco



Mosaic



Tinted glass



LED Bars



# **Indirect lighting**



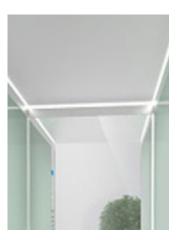




Car walls illumination



**COP Illumination** 

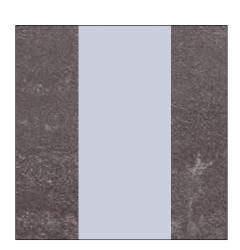


Ceiling illumination

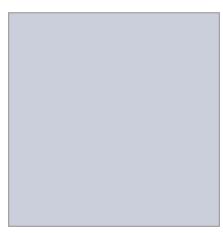
## **Mirrors**



1/2 Height



Slim mirror panel



Full mirror

### Handrail

# STANDARD EN 81-20





- 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 painted black



# **Automatic door**



Primed Stainless steel



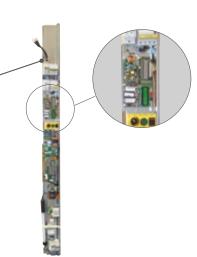
Folding Bus door big vision panel



Big vision panel



Full glass stainless steel frame



Control panel in door frame.

Available for Carlos Silva, Elec Megom, Sprinte and New Lift.





# Semi-automatic doors



Standard Vision panel



Big vision panel



### **Door finishes**

## Ероху

# STANDARD



#### OTHERS

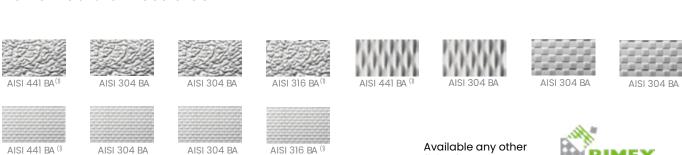


### Smooth Stainless steel

#### STANDARD



#### Patterned Stainless steel



Available any other finish from:





# 2.5 Operating panels & Indicators

# **Car Operating panels**



# Landing operating panels



Surface mounted anodised aluminum



Surface mounted anodised aluminum



With engraving on steel plate



With transparent window plate



Surface mounted



Surface mounted



With Display

### **Push buttons**



Bas 120



Bas 120 Black



RT42



US91-EN



US95-EN



AT33RM



US90 Jumbo



US95 Jumbo



B3(Arkel)



B3 Black (Arkel)



V2-P(Arkel)

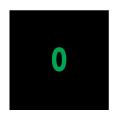
# **Indicators**



SURFACE mounted

# 2.5 Operating panels & Indicators

## **Indicators**









TFT 2,8" CARLOS SILVA

LCD10555 ARKEL

TFT 2385 LESTER

LCDA ARKEL









EAZ-TFT-45 2,8" NEWLIFT

TFT 5,6" CARLOS SILVA

TFT 4,3" Clearview DIGITAL ADVANCE

LIFTMEDIA ARKEL







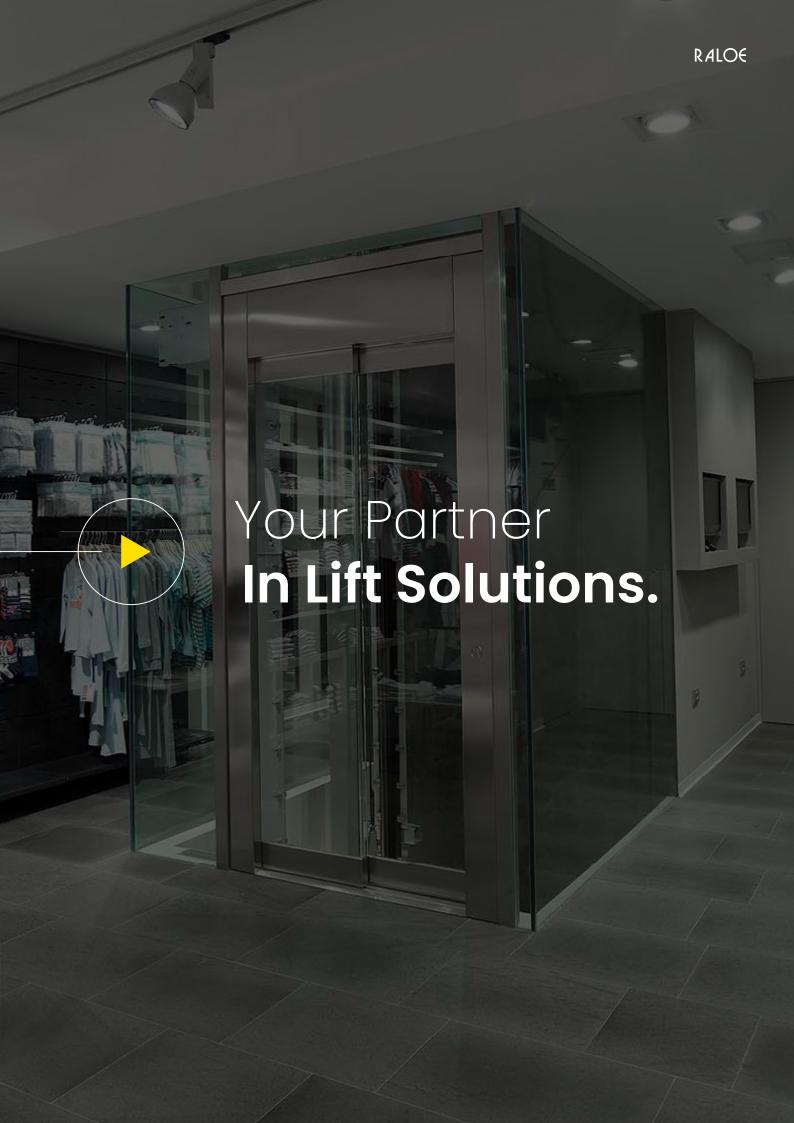


TFT 2381 LESTER

EAZ-TFT-110 5" EAZ-TFT-210 10,3" NEWLIFT

7" CARLOS SILVA

10" CARLOS SILVA







# 2.6

# **Structures**

The structures for Passenger Lift and Home Lift give us flexibility, by eliminating architectural barriers and bringing solutions for the total accessibility.

#### STRUCTURES

## Colors





## **Advantages**

The assembly time is reduced by over 60% compared to an installation with traditional construction system, with a clean, fast, and quiet product.

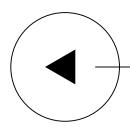
Absolutely respectful with the environment, both in the assembly process and industrial development.

Ease of assembly, makes this product highly simple to operate complying with the higher safety 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.







Ceiling (metal sheet or glass)



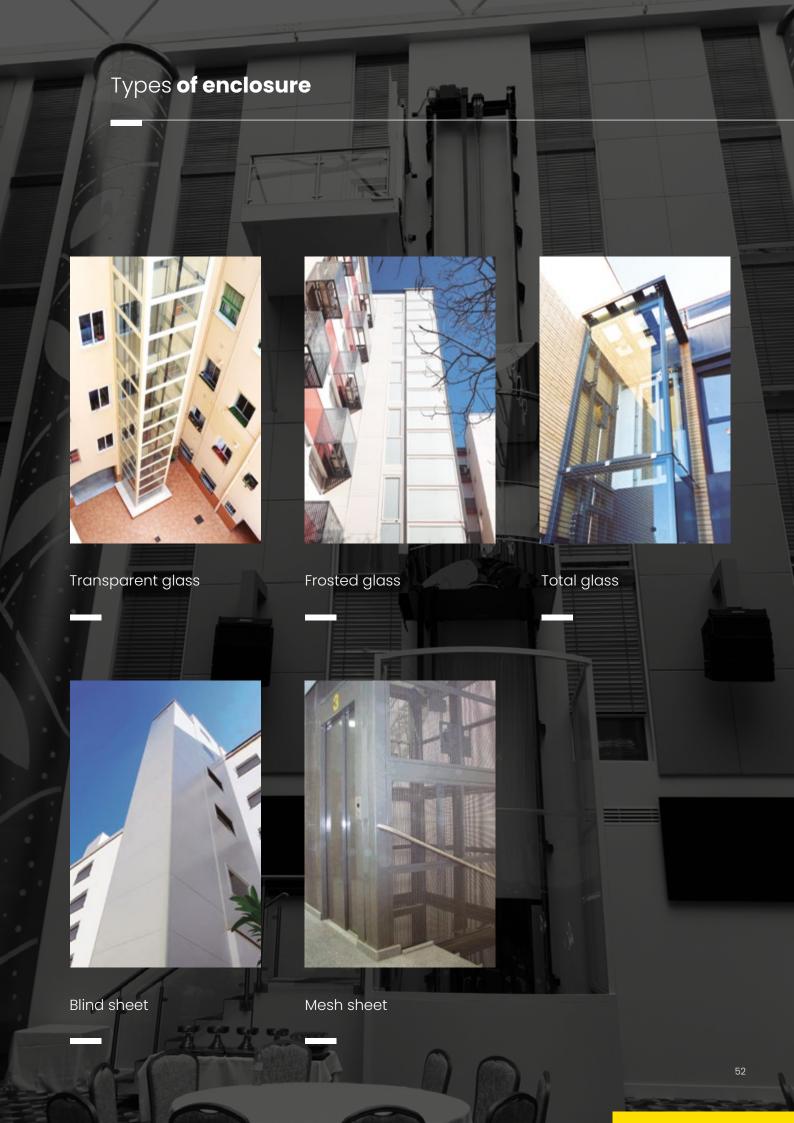
Canopy over door (metal sheet or glass)



Handrail



Ventilation





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