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○ Product development

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1.1

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 | 330 | 3.375 | 2.955 | 660 |
| 630 | 330 | 3.375 | 2.975 | 720 |
| 1.000 ⁽²⁾ | 330 | 3.355 | 3.105 | 720 |
| 1.000 ⁽³⁾ | 380 | 3.355 | 3.060 | 730 |
| 1.600 | 450 | 3.500 | 3.265 | 770 |
| | | | | |

| Entrance | 0 - 180° |
|-----------|---------------------------|
| Door type | Automatic - Semiautomatic |

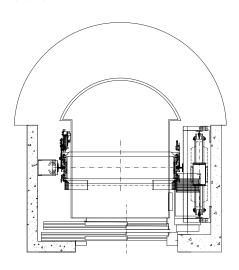
Panoramic/scenic car options Yes

Weatherproof Yes

- (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.

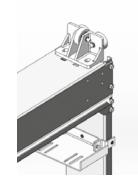
Special solutions.

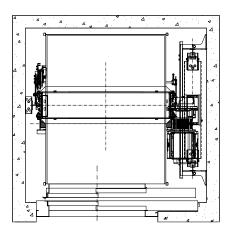
Possible configurations for irregular shafts.



High speeds Up to 3m/s.

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





Technical characteristics Symbio HR

| Rated load (Kg) | 300 - 1.500 |
|------------------------------|-------------|
| Rated speed (m/s) | 0,5 - 1,0 |
| Machine room | CCM / SCM |
| Travel (m) | Up to 100 |
| Roping | 2:1 |
| Traction ropes diameter (mm) | 6,5 - 8,0 |

Guiding system

Buffered guide shoes for greater comfort.

| Q (Kg) | Minimum Headroom (mm) ⁽²⁾ | | |
|----------------------|--------------------------------------|---------|--|
| | Min headroom | Min pit | |
| | | | |
| 450 | 2430 | 660 | |
| 630 | 2430 | 720 | |
| 1.000 ⁽³⁾ | 2430 | 720 | |
| 1.000 ⁽⁴⁾ | 2.600 | 730 | |
| 1.600 | 3.200 | 770 | |
| | | | |

Entrance 0 - 180°

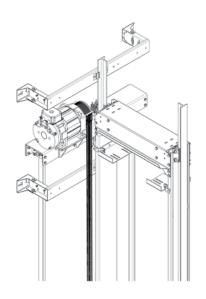
| Door type | Automatic - Semiautomatic |
|------------------------------|---------------------------|
| Panoramic/scenic car options | Yes |

Weatherproof Yes

- (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.⁽¹⁾









Technical characteristics Symbio PF

| Rated load (Kg) | 300-600 ⁽¹ |
|------------------------------|-----------------------|
| 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 |

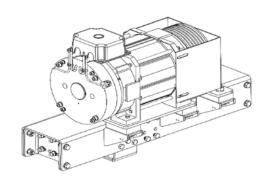
Symbio PF Shaft depth 720 mm.

Max speed 1m/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 | 330 330 | 3.375 3.375 | 2.955 2.975 | 660 720 |



Entrance 0 - 180°

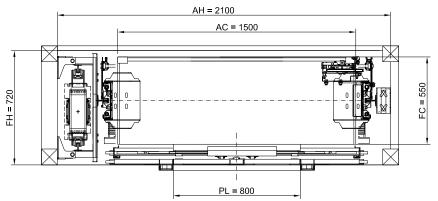
Door type Automatic - Semiautomatic

Panoramic/scenic car options
Yes

Weatherproof Yes

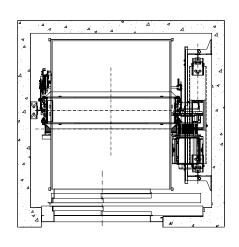
(1) For other loads, please consult.

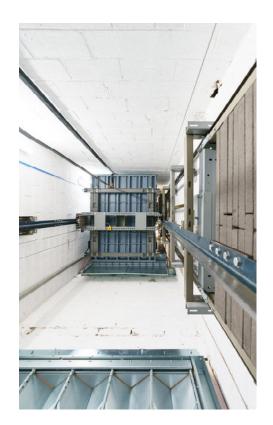
⁽²⁾ Data for installations at 1m/s. Headroom calculated with 2.005 mm car internal height.



Technical characteristics Symbio G

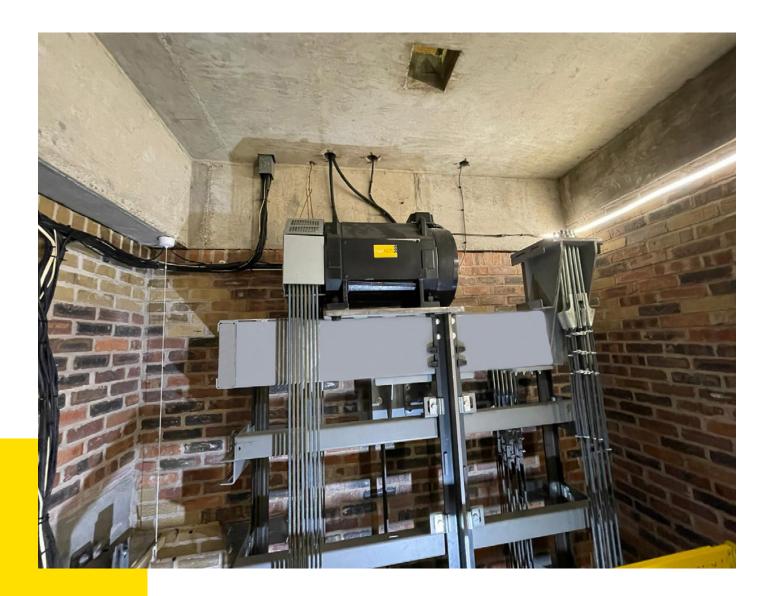
| Rated load(Kg) | | 1.800-3.200 |
|-------------------------|--------------------------|------------------------------|
| Rated speed (m/s) | | 0,5 - 1,0 |
| Machine room | | CCM / SCM |
| Travel (m) | | Up to 50 |
| Roping | | 2:1 |
| Traction ropes diameter | r (mm) | 8 - 10 |
| Guiding system | Buffered guid | e shoes for greater comfort. |
| Minimum pit (mm) | | 1.500-1.700 |
| Minimum headroom (m | m) ⁽¹⁾ | 4.000-5.000 |
| Entrance | | 0 - 180° |
| Door mechanism | | Automatic |
| Panoramic/scenic car o | ptions | Yes |
| Weatherproof | | Yes |











1.2

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) | 3.200 - 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 pit (mm) | Aprox. minimum headroom (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:

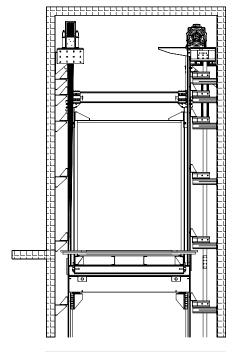
Roping 4:1 with pulleys under the car frame, providing excellent stability and great comfort.

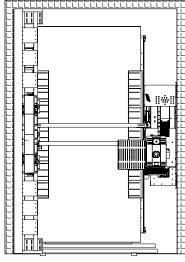
Easy installation:

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

Adaptability:

Possibility of anti-creep for high specific loads.











1.3

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:

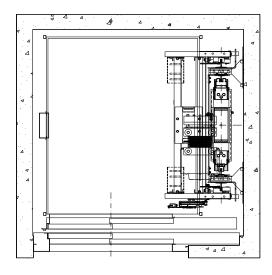
Works on any single-phase 220 V socket.

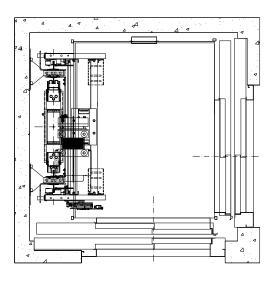
Easy installation:

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 (mi | m) 6,5 - 8,0 |
| Guiding system | Special liners or rollers on the safety gear side ensure optimal operation |

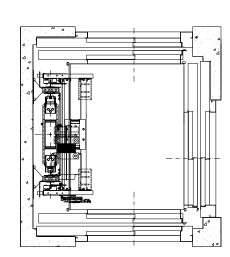
| Minimum Pit (mm) | | Minimum Headroom (mm) | | |
|------------------|---------|-----------------------|--------------|---------------|
| Q (Kg) | Min pit | Necessary headroom | Min headroom | Necessary pit |
| | | | | |
| 450 | 300 | 3.400 | 3.225 | 640 |
| 630 | 300 | 3.400 | 3.225 | 640 |
| 1.250 | 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 |

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





Technical characteristics Optimus FHR

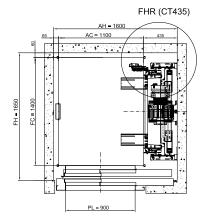
| Rated load (Kg) | | 180 - 630 |
|---------------------|------------------------|--|
| Rated speed (m/s) |) | 0,5 - 1,0 |
| Machine room | | CCM / SCM |
| Entrances | | 0-90° - 180° - 270° |
| Roping | | 2:1 |
| Traction ropes dia | meter (mm) | 6,5 |
| Guiding system | Special liners or re | ollers on the safety gear side ensure optimal operation |
| Minimum pit (mm |) | 300 |
| Minimum headroo | om (mm) ⁽ⁱ⁾ | 2.400 |
| Travel (m) | | Up to 50 |
| Door mechanism | | Automatic - Semiautomatic |
| Restrictive technic | cal measure (mm) | 435 |
| Panoramic car | | Yes |
| Weatherproof | | Yes |
| Power supply | | Single-phase / three-phase |
| | | |

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

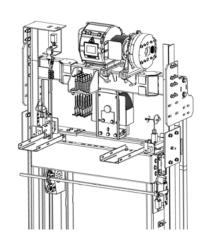
Bespoke Solutions

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







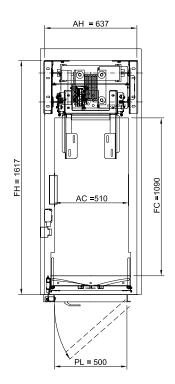
Technical characteristics Optimus GP

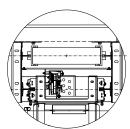
| 180 - 375 |
|----------------------------|
| 0,5 - 1,0 |
| CCM / SCM |
| 0-90° - 180° - 270° |
| 2:1 |
| 6,5 |
| Rollers |
| 350 |
| 2.905 |
| Up to 50 |
| Automatic - Semiautomatic |
| 395 |
| Yes |
| Yes |
| Single-phase / three-phase |
| |

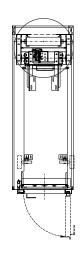
(1) Data for installations at 1m/s. Headroom calculated with 2.005 mm car internal height.

Optimus GP Shaft width 670mm.

Q max: 375 kg (Qt max: 1165 kg.) Min. pit: 320 mm. Min. headroom: 2840 mm. Restrictive technical measure: 395 mm. Control panel on landing.



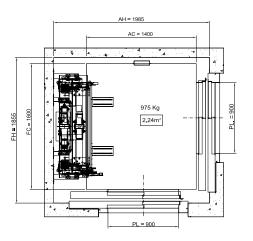




Technical characteristics Optimus FHR PR 281

| 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) | 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 |
| rower suppry | angle phase/ three phase |

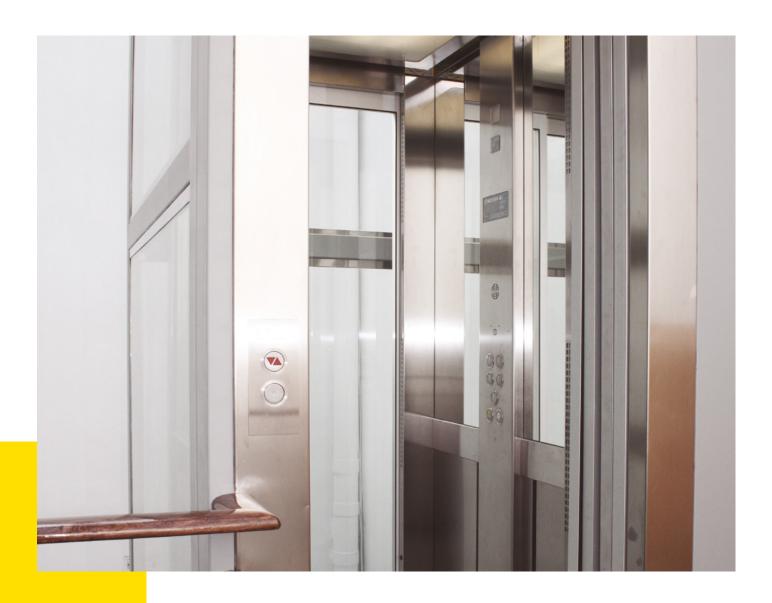
Optimus 81.70 Entrance 90°



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







1.4

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 (mm) | 6,5 - 8 - 10- 12 |

Guiding system guide shoes >1.6 rollers

| Q (Kg) | Minimum pit (mm) | | Minimum headroom (mm) (1) | |
|----------------|---------------------|----------------|---------------------------|----------------|
| | Mín. pit | Min.headroom | Min. Pit. Min. Headroo | |
| 450 600 | 360 360 | 3.170 3.170 | 685 715 | 3.040 3.135 |
| 1.000 1.350 | 730 730 | 3.315 3.315 | 730 730 | 3.315 3.315 |
| | | | | |

| Entrances | 0 - | 90°- | 180° – | 270° |
|-----------|-----|------|--------|------|
| | | | | |

| Door mechanism A | utomatic- Semiautomatic |
|------------------|-------------------------|
| Motors | Geared - Gearless |
| Panoramic car | Yes |
| Weatherproof | Yes |

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

Bespoke Solutions

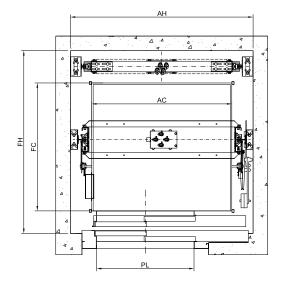
Advantages

Adaptability:

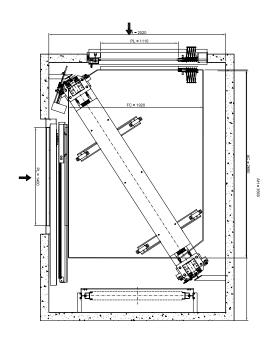
Easy to adapt to existing shafts.

Versatility:

High loads and high travel distance.

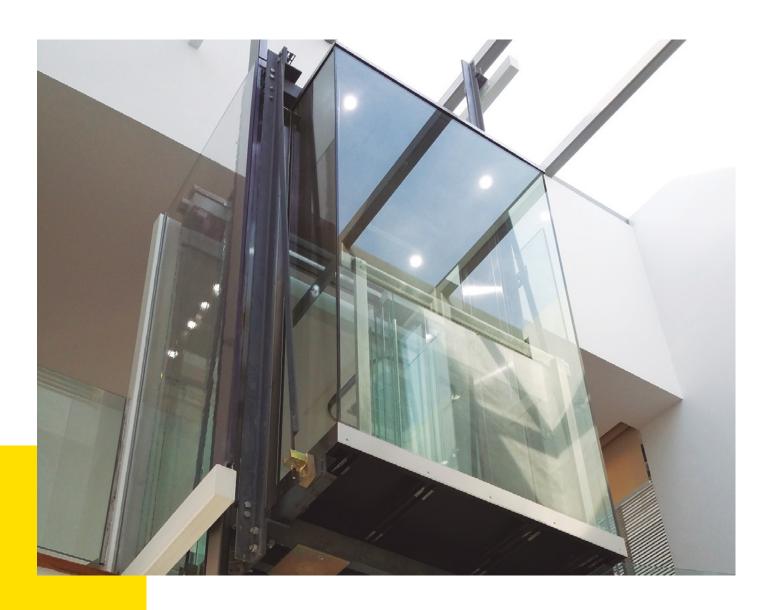


Diagonal Guides









1.5

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:

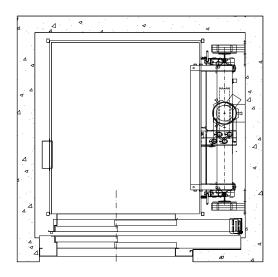
Excellent level of comfort, equivalent to a traction lift using electronic valves

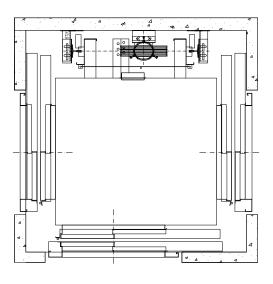
Adaptability:

Easy control and maintenance.

Safety:

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









Guiding system



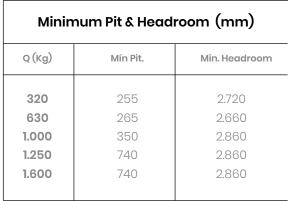
Technical characteristics

| 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

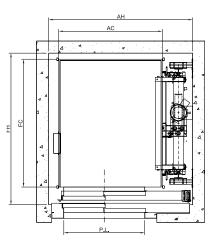
guarantee operation





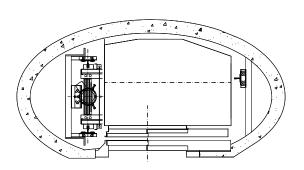


| Travel | Up to 25 |
|-------------------------------|---------------------------|
| Door type | Automatic - Semiautomatic |
| Restrictive technical measure | GMV - MORIS - BUCHER |
| Panoramic/scenic car options | Yes |
| Weatherproof | Yes |

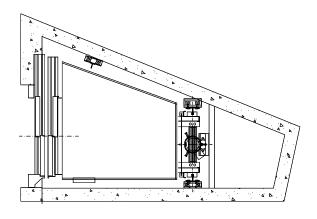


R*A*LO€

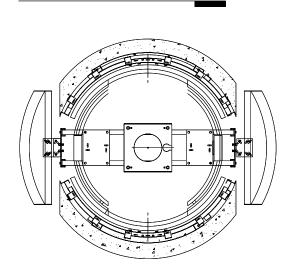
Panoramic



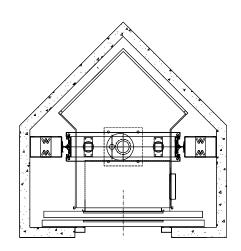
Irregular shaft



Borehole piston



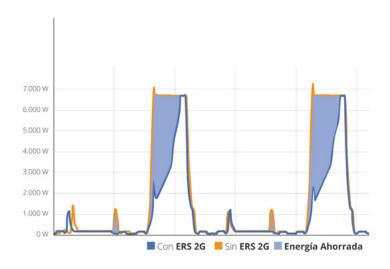






ERS 2G - Energy Recovery System

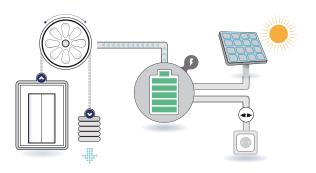




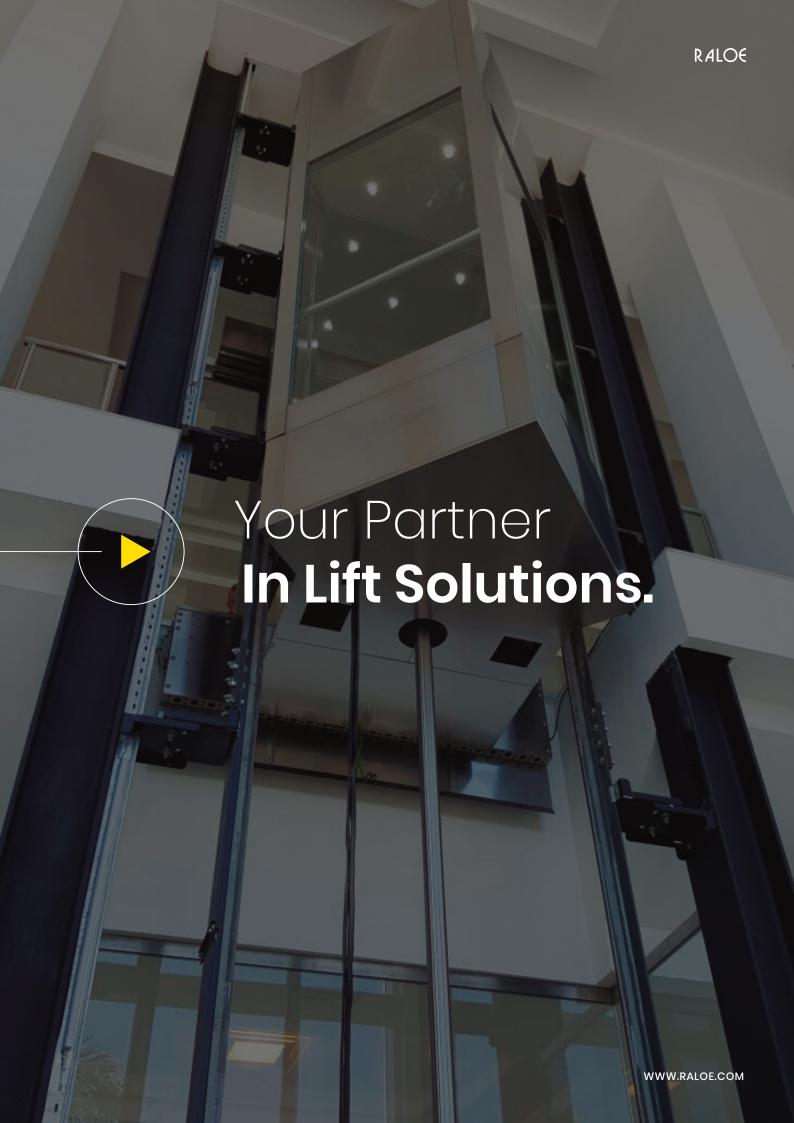
Energy Recovery System revolutionizes elevator consumption. Regenerative solution with energy storage. It recovers the energy generated by the elevator and returns it to the elevator itself, reducing traction consumption by up to 70%. Plug and play.

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.

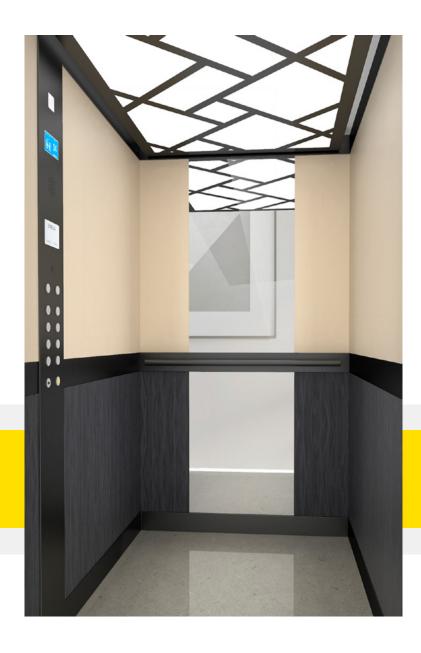






| 101 | Walls | Joint | Floor |
|-----|------------------------|-------------------------|-------------------------|
| | Checks Stainless Steel | No joint between panels | Granite Naturel Warwick |
| | | | |





Walls

Joint

Floor

F6307 Burnt Strand

Smooth panel

Royal Reef artificial stone

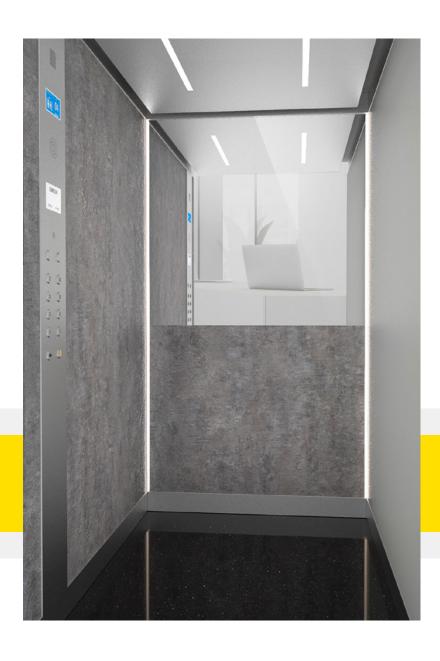
F2833 Sandstone

*M03 also available in Melamine

Laminate

26





Walls

Joint

Floor

Car Walls Illumination

F7327 Popular Grey

No joint between panels

F8830 Elemental Concrete

*M04 also available in Melamine

Laminate

Technical Catalogue





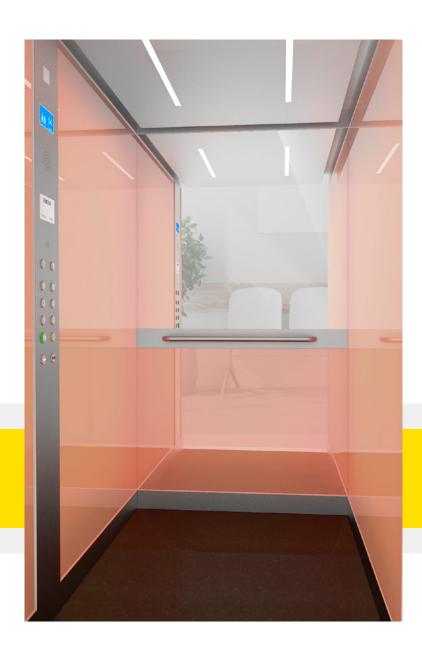
| S01 | Walls | Joint | Floor | |
|-----|---------------------------|-------------------------|------------------------|--|
| | Stainless Steel Skinplate | No joint between panels | Anti-slip rubber Black | |
| | | | | |





Walls Joint Floor Light Ivory RAL 1015 No joint between panels Pink Porriño natural granite Painted Sheet





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



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.

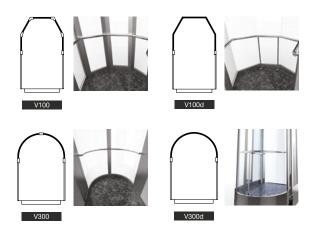


Vector

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

Models V100, V300: Framed glass

Models M100d, M300d: Frameless glass





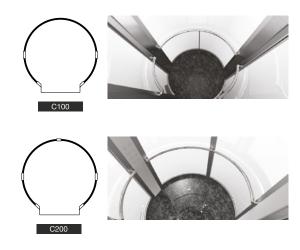


Century

Cabinas acristaladas completamente circulares

Modelos C100: Unión entre cristales enmarcado con perfiles.

Modelos C200: Unión entre cristales sin perfiles.







Walls

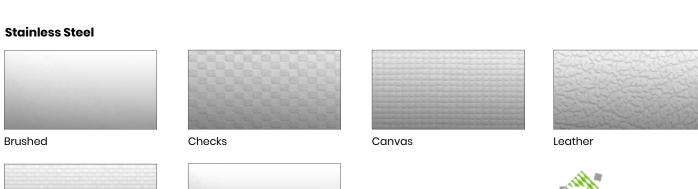
Skinplates





Simil stainless steel





Linen

Polished







Walls

Back painted glass



Metallic grey RAL 9006



White RAL 9003



Matt Light Brown RAL 1236



3 Tariff Type 3



Light Brown RAL 1236



Black Starlight RAL 0337



Terracotta Red RAL 8815



Green RAL 8615



White Pearl RAL 1013 (matt or gloss)



2



Bronze



Pistachio Green RAL 1164

Back painted glass (under request)



RAL 1586



RAL 2001



RAL 8017



RAL 9005



SILVER



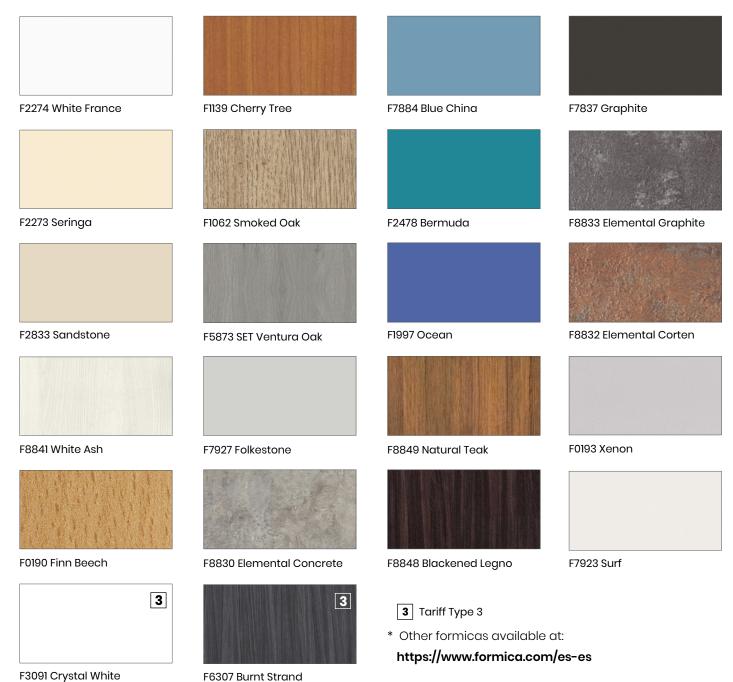
RAL 5002





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/m²



Beige



Sand



Oak



Grey



Grey granite



Grey concrete



Blue



Black

Artificial Stone 49 kg/m²



Grey Expo



Royal Reef



White North



Ethereal Glow



Concrete Spa



Merope



Black Starlight



Rougui

- 2 Tariff type 2
- 3 Tariff type 3

Natural granite 56 kg/m²



Grey Pearl



Grey Quintana



Dark Blue Labrador

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



Pink Porriño



Intense Black



Guyana



White Crystal



Black South Africa



Warwick Rubi



White Trevi



Andromeda

Metallic floor



Aluminum checkerboard 6 Kg/m²



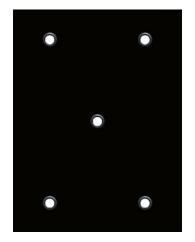
Stainless steel 12 Kg/m²



Steel durbar plate 36 Kg/m²



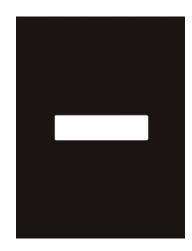
Ceilings



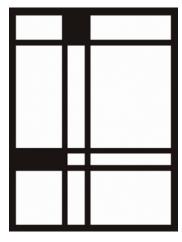
LED spots



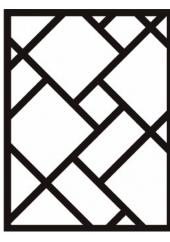
Curved LED spots



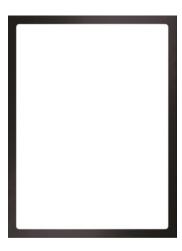
LED Strip



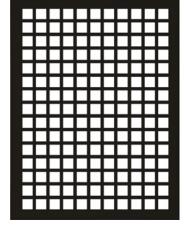
Mondrian



Arte



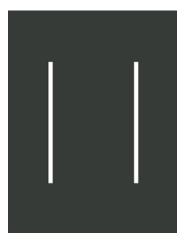
Marco



Mosaic



Tinted glass



LED Bars



Indirect lighting







Car walls illumination

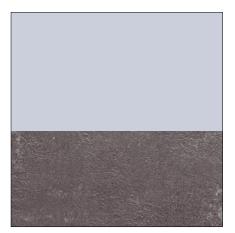


COP Illumination

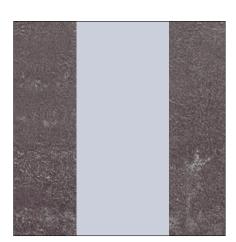


Ceiling illumination

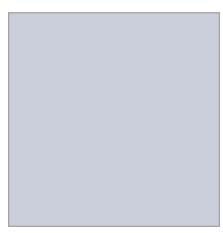
Mirrors



1/2 Height



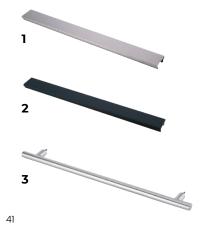
Slim mirror panel



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



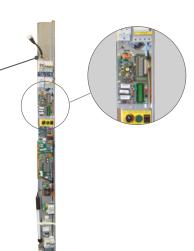
Folding Bus door big vision panel



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

RAL 7032

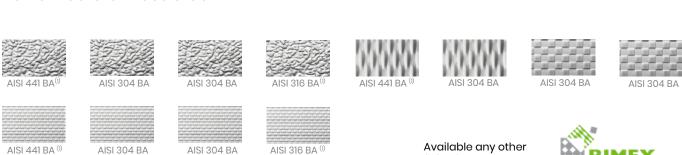


Smooth Stainless steel

STANDARD



Patterned Stainless steel



finish from:



2.5 Operating panels & Indicators

Car Operating panels





Standard Height 1960 mm Standard only for lifts. For Home Lift, supplied without display.

Handrail Type (EN81.70)



45

Technical Catalogue



Landing operating panels



With engraving on steel plate



With transparent window plate



Surface mounted



Surface mounted



With Display

Push buttons



US90 Jumbo US95 Jumbo B3 (Arkel) B3 Black (Arkel) V2-P (Arkel)

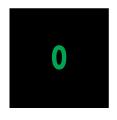
Indicators



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







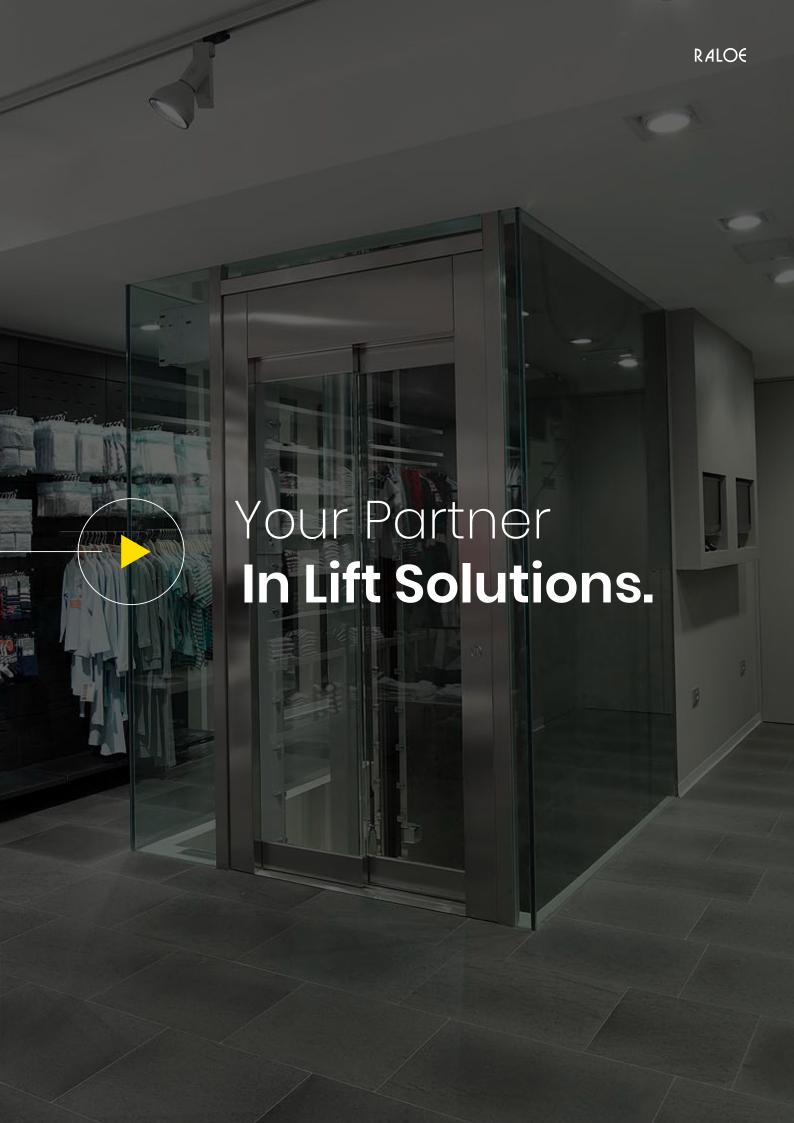


TFT 2381 LESTER

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.

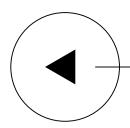
Absolutely respectful with the environment, both in the assembly process and industrial development.

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)



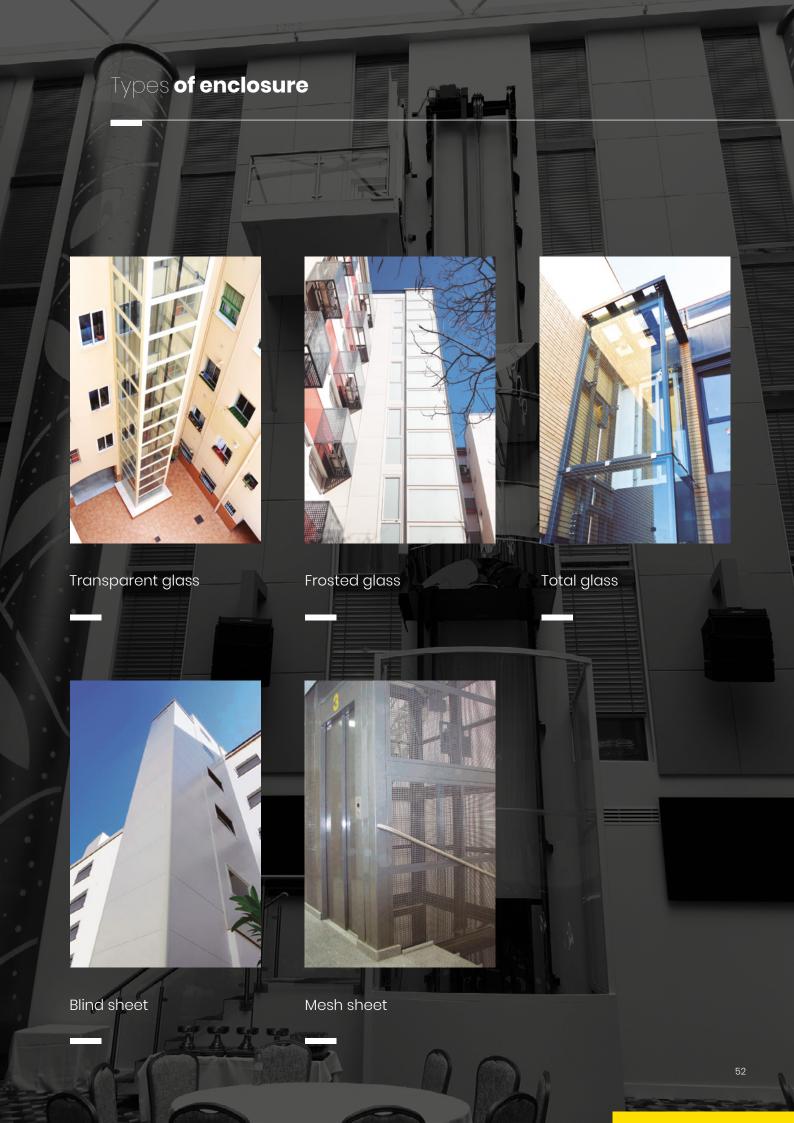
Canopy over door (metal sheet or glass)



Handrail



Ventilation





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