

Mangusta

ENERGY SAVING ELEVATOR





2

True energy saving elevator

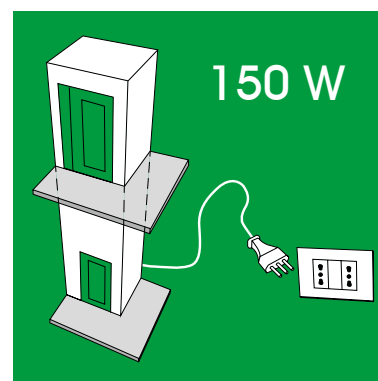
Mangusta is an electric elevator designed and manufactured by A.R.E. Srl. It is provided with an innovative traction system, patented¹ ARE H2E (High Efficient Energy), which allows the use of only 0.15 kW power and the consumption of only half the electricity required by hydraulic elevators. Also, the presence of two batteries allows the use of *Mangusta* even in the event of an extended blackout.



A.R.E. Srl is a company established in 2009 by manufactures having thirty years of experience in the field of elevators. ARE invested in the technological research for the purpose of reducing energy consumption, having the objective of building low energy consumption elevators, comparable to the smallest appliances.

¹ SIB Italian Society for Patents submission no. FI2011A000112 from 27/05/2011.

Mangusta



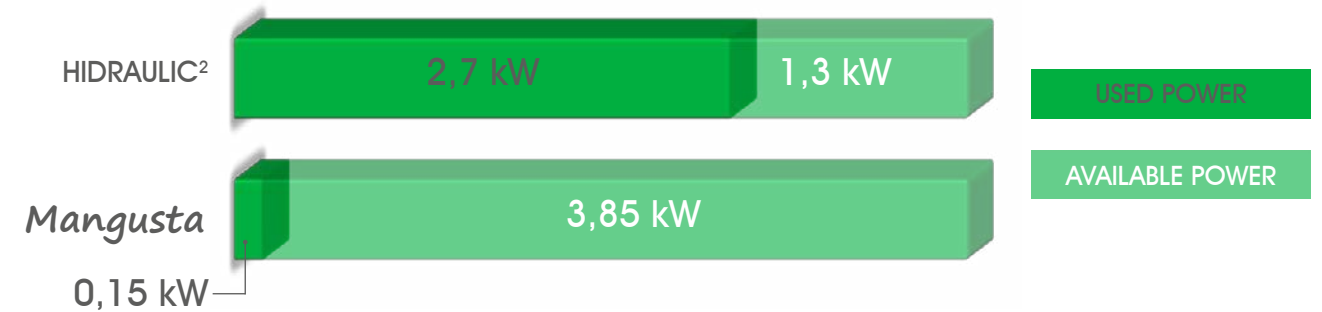
**AUTONOMY
ECONOMY
EFFICIENCY**

USED POWER

On the electric energy counter it is called "instantaneous power" and can be viewed at any time. It allows the verification of the power used by each device and gain a greater understanding of energy consumption. To know which is the absorption of the individual appliance is enough to stop all devices and leave in operation only the one for which you want to know the used power¹.

Counter tripped and you're out of electricity?

You are simultaneously using more electrical devices and therefore a higher power than the allowed one.

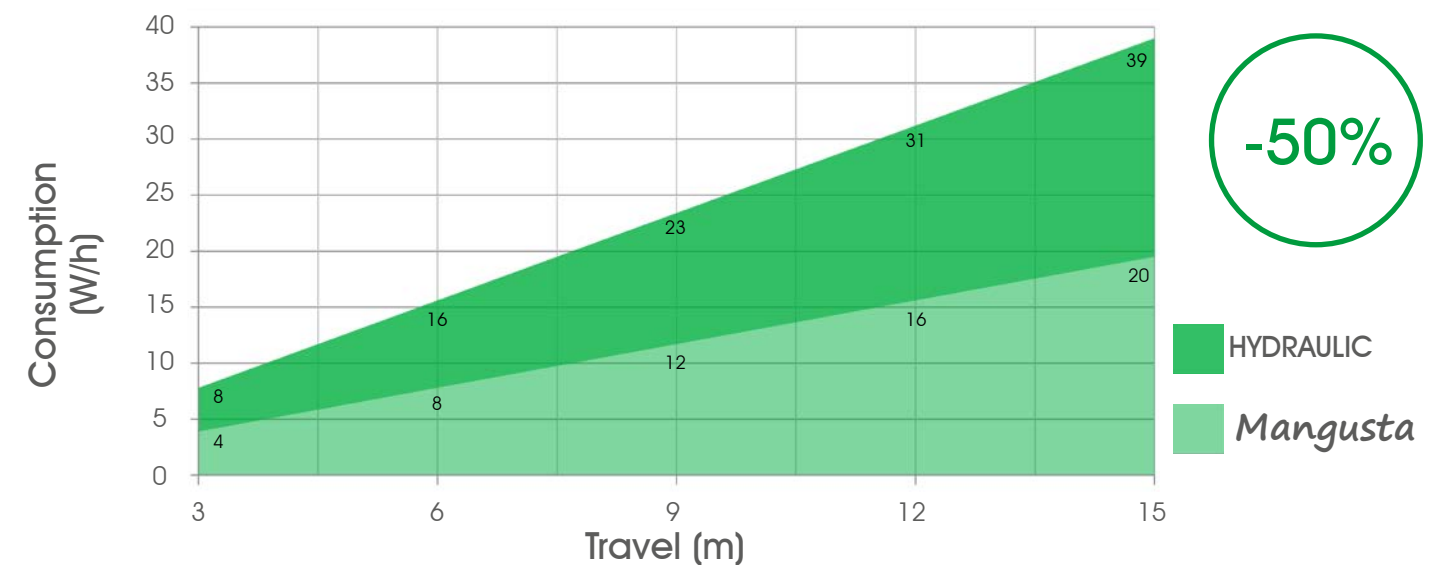


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In the graph, in green is represented the used power that we'll be reading on the counter if all the other devices would be stopped. In light green is indicated the available power which varies according to the contract type, in a specific case we considered 4 kW the maximum permitted power for a 3 kW³ contract. As you can see, *Mangusta* with only 150 W uses 18 times less power than the 2,700 W of the hydraulic installation while ascending.

ENERGY CONSUMPTION

In the next graph you can see the comparison between *Mangusta* and a hydraulic installation based on the length of the travel. *Mangusta* consumes 50% less electricity even if it offers superior advantages and performances to a hydraulic elevator.



¹ Every two minutes, the electric counter automatically records and updates the used kilowatts (kW).

² Absorbed power during ascension by the 1.5 kW engine hydraulic control unit.

³ Electric counter allows for a limited time the availability of a power 10% higher than the used power, contractually signed for. For instance, for a 3 kW counter it is possible to use without time limits up to 3.3 kW. Also, if the 3.3 kW are exceeded, up to 4 kW can be used for at least three hours. If more than 4 kW power are used, the electricity control device trips within four minutes.

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Not only energy saving.

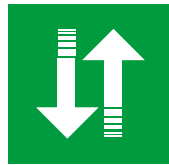
All advantages of Mangusta.



Anti Blackout system
The presence of the two batteries allows the use of *Mangusta* even in the absence of electricity (black-out) for around 30 runs. The number of runs may vary depending on the battery charge.



Absence of Equipment Room
With *Mangusta* no space is required to accomodate the hydraulic control units and control boards, the engine being located in the elevator shaft and the control panel is located in the top landing door.



Comfort and Silent Operation
Soft departures and arrivals, stop floors precision and silence are distinctive traits of *Mangusta*, designed and made to offer maximum comfort.



Safety
Mangusta is provided with a speed limiter that avoids the uncontrolled movement of the cabin, wherever it may be. This limiter is located on the devices present and mandatory on the elevators according to A3 amendment.



Low cost of transport
Guide lengths that never exceed 2,4 m and all the elevator always placed in 4 packets are factors that reduce the transport cost and facilitate movement on site.



Environmentally friendly and clean
Mangusta protects the environment, doesn't use any type of oil, not even lubricant for the sliding guides.



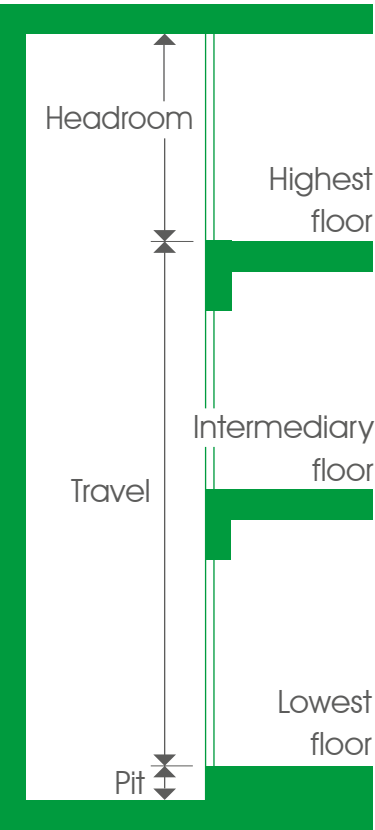
High Energy Efficiency
Mangusta offers superior performances for a hydraulic elevator consuming less than 50% electricity.



Low used power
The 150 Watts of used power allow the operation of *Mangusta* without being preoccupied to turn off other appliances and no power increase is required in the electric energy contract, the standard private home power or light counter from the staircases being sufficient.

TECHNICAL
CHARACTERISTICS
Mangusta

INDICATIVE SECTION

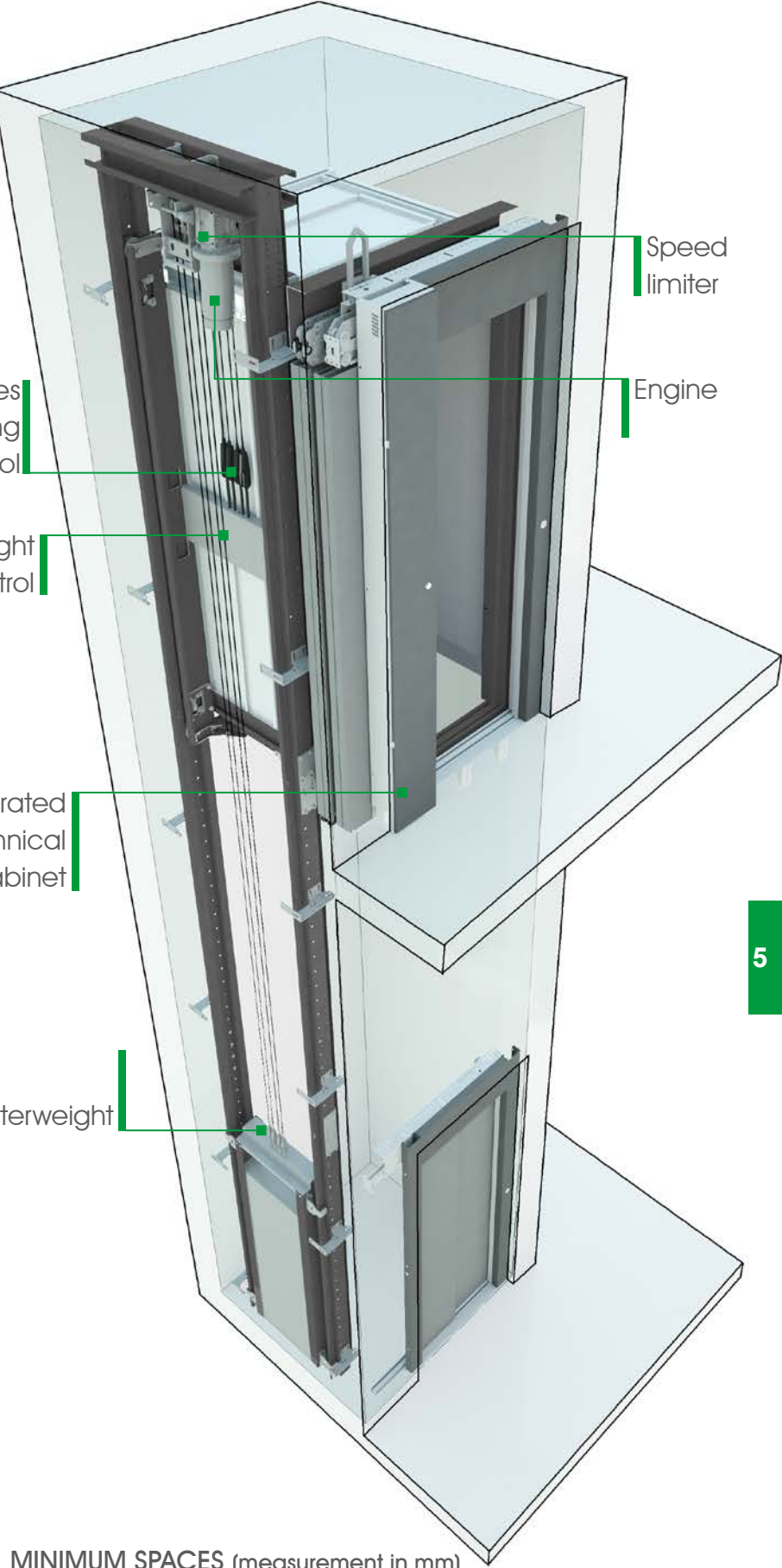


CHARACTERISTICS

Max weight	400 Kg
Max speed	0,15 m/sec
Max hourly insertions	45
Max travel	24.000 mm
Headroom	2.600 mm
Pit	150 mm

ELECTRIC GRID

Supply	220-240V
Used power	0,15 kW
Maximum absorption during acceleration	Absent
Rated current	0,6 A



MINIMUM SPACES (measurement in mm)

Versions	Headroom	H Cabin	H Doors	Pit ¹
WITHOUT CABIN DOORS	2.200	2.000	2.000	130
BUS DOOR IN CABIN	2.200	2.000	1.900	130
AUTOMATIC DOORS	2.450	2.100	2.000	150

¹90 mm after the approval of our technical office.



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"Automatic" Mangusta with metallic structure shaft covered with brushed stainless steel.



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EACH
Mangusta
IS A UNIQUE
ITEM

Mangusta can perfectly adapt to your home's line and style, allowing for the achievement of a new connection element in perfect harmony with the environment.

The wide choice of materials and colours facilitates the identification of solutions to satisfy any request.



In harmony with the environment

"Automatic" Mangusta with shaft in the external structure painted in RAL 7016, cladding in grey stopsol glass, automatic landing door with frames painted in RAL 7016.



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Mangusta with shaft in metallic structure cladding in glazed stainless steel with extra-clear "Punctual Glass" closing. Automatic cabin and floor doors "Total Glass" version. Cabin with panoramic walls and glazed stainless steel finishing.



Cabin with AISMA Embossed White walls and ceiling, glazed stainless steel finishing, 17102 Bright Grey, mirror on the entire wall and glazed stainless steel handrail.



Cabin with G4SA Matte Orange walls, finishing in F12PPS Similinox, 17102 Bright Grey floor, half panoramic wall and glazed stainless steel handrail.



Cabin with PPS31 Shiny Cloudy Blue walls, glazed stainless steel finishing, 17194 Dark Grey floor, panoramic wall and glazed stainless steel handrail.



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Structure, outside cabin and mechanical side painted in RAL 9001.



WITHOUT CABIN DOORS

Mangusta without cabin doors, with landing swing door painted RAL 1013, D2 window, LG220 handle from glazed stainless steel.



BUS DOOR IN THE CABIN

Mangusta with brushes stainless steel bus door and P1 Max panoramic window. Swing landing door painted RAL 7035 with P1 window.



Laminated sheet cabin PPS6 Shiny Silk.



Without cabin doors

This version provides that in the cabin the manoeuvre is manual (according to the norm "with person present").

Bus door in the cabin

Bus door offers the possibility of automatic manoeuvre in the cabin and small spaces.

Automatic doors.

In this version, *Mangusta* is fully automatic and may be defined as "low speed elevator".

Version	User manoeuvre	
	in Cabin	from Floor
WITHOUT CABIN DOORS	Manual	Automatic
BUS DOOR IN THE CABIN	Automatic	Automatic
AUTOMATIC DOORS	Automatic	Automatic

Manual = Keep the button pushed throughout the entire travel.

Automatic = Push for a moment the button to start the installation, as for an elevator.



AUTOMATIC DOORS

Mangusta with automatic doors, landing door in A26 Embossed White Milk and structure frame painted in RAL 9010 with glass.



12

Laminated sheet telescopic doors and frame B1 Embossed Blue



Telescopic doors and cabinet frame of Glazed stainless steel



Mangusta with shaft in external structure complete with closed walkway, outside paint RAL 9007, bright stopsol glass buffer.



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Automatic floor door with laminated sheet frame F12PPS Similinox.



Laminated sheet telescopic doors and frame F12PPS Similinox.

Automatic landing doors with sliding telescopic doors, opening and closing driven by the electronic operator provided with programming keyboard, available in various sizes.

AUTOMATIC DOORS

VERSIONS:

- Laminated sheet telescopic doors and frame, colours at choice from those proposed in the "BASE LINE" of the cabin.
- Stainless steel telescopic doors and frame (glazed, scotch brite, shiny ba, linen sheet etc.).
- RAL paint at choice steel telescopic doors and frame, available for all RAL range colours.
- Doors covered by laminated sheet, colours at choice from those proposed in the "PLUS LINE" for cabin.
- "Glass & Metal" telescopic doors, glass with stainless steel frame.
- "Total Glass" telescopic doors, entirely made of glass.

METALLIC STRUCTURE

Mangusta can be supplied with shaft in metallic structure adapted to be positioned both inside and outside the building. All the structure complies with the European regulation 305/2011 in force since 1st July 2014 and therefore compliant with the UNI EN 1090-1 Norm.

VERSIONS:

- Powder coater, colored RAL
- Stainless steel claddings

CLADDINGS:

- Transparent stratified glass
- Fumè stratified glass
- Stopsol stratified glass
- Mill white stratified glass
- RAL nuance painted sheet panels
- Stainless steel panels



All RAL colours



Exterior structure with descent walkway, exterior RAL 9006 paint, transparent glass cladding. Reinforcement by cross vault, no fixing to the building.

SWING DOORS

Semi-automatic swing doors, manual opening and semi-automatic closing by return spring. Fit to any environment with infinite combinations of finishing, colours, glass and dimensions.



Mod. C1



Mod. V1



Mod. V2



Mod. PS1



Mod. P1



Mod. P2



Mod. V3



Mod. D1



Mod. D2



All RAL colours

VERSIONS:

- Anti-rust RAL 7001 paint (BASIS)
- RAL painted
- Galvanized and RAL Painted
- Stainless steel cladding
- Wood cladding
- Blinded
- Made of ASI 316 stainless steel and RAL painted
- Fireproof E1120 RAL painted

WOOD CLADDING

Steel door with external side covered in wood and the inside painted with coordinated RAL color. Not available for all windows.



WD01 Oak



WD03 Chestnut



WD02 Mamogany



WD04 Walnut

Mod. ALLUMINIUM

Silver naturally anodized aluminium frame and doors.

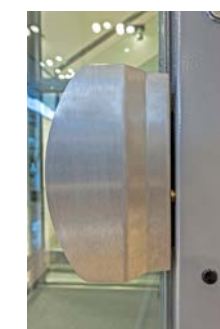


Mod. CRYSTAL

Door entirely in crystal and frame covered in stainless steel or RAL painted at choice.



Stainless steel handrail and hinge.



BUS DOORS

Bus doors in cabin and manual or automatic opening and closing. In the automatic version the telescopic doors are driven by the electronic operator and movement is controlled by the electronic force sensor.

RAL Paint 9007 (BASIC)
RAL Paint at choice
Stainless steel covering



Panoramic windows mod. P1 Max with glass frame in stainless steel



WALLS:
PPS10
Shiny Ivory

CEILING:
A49PP
Shiny White

FINISHING:
F12PPS
Similinox

FLOOR:
17102
Bright Grey

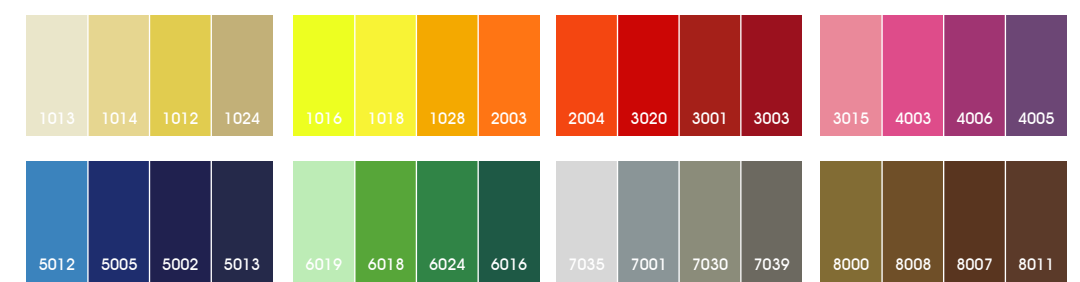
LAMINATED SHEET

Offer based on laminated sheet, PVC floor and lighting with two 3 W LED bulbs each. Possibility to select a wall colour and a different one for finishing.



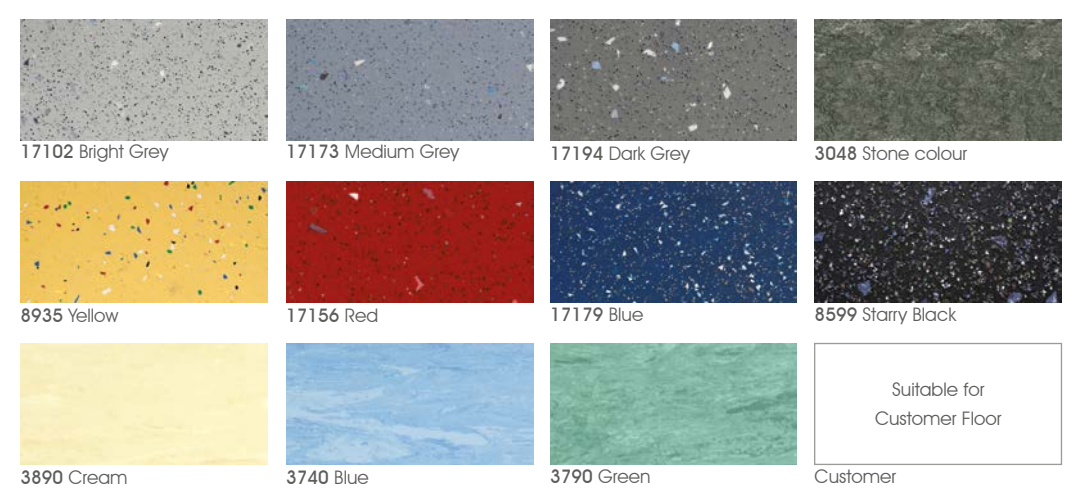
RAL PAINT

Available all RAL colors except pearlscent. The colors shown may not be represented correctly, for choosing the RAL color refer to official samples.



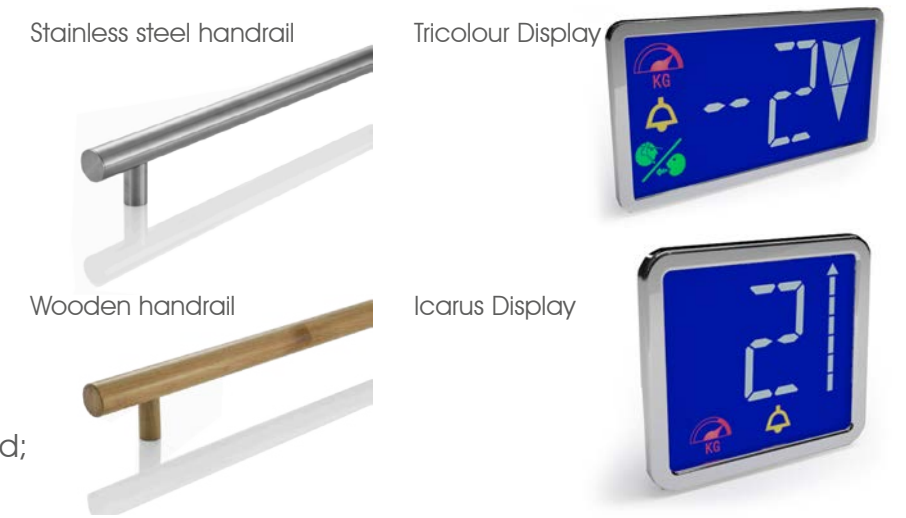
PVC FLOORS

These floors have a surface pur pearl, a combination between embossing and acquerung that provides the characteristics smooth finish and elegant matt with high resistance to scratches, pounding and foot traffic.



ACCESSORIES

- Display in cabin or floor;
- Simple or angled handrail;
- Half or full wall mirror;
- Half or full wall panoramic;
- External cladding;
- Mechanics and cabin outside painted;
- Activation keys upon call;



WALLS:
460 Verde
Erbetta

CEILING:
A49PP
Shiny White

FINISHING:
Brushes
Stainless Steel

FLOOR:
Touch 2430

LAMINATED PLASTIC

LINE

Horizontally or vertically, more than 100 colours available to offer the perfect match to any project idea.



405 Bianco Porcellana



479 Grigio Tortora



460 Verde Erbetta



423 Viola Madras



835 Arancio Canyon



868 Grigio Medio



413 Beige Ardenne



893 Terra d'Ombra



1454 Egizio



548 Piasentina



1450 Industrial



560 Twist Light



1451 Urban Style



547 Tivoli Greige



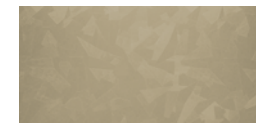
546 Tivoli



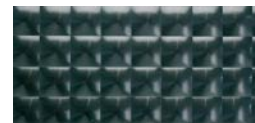
1452 Wall



868 Lens



868 Shards



421 Lens



421 Shards

ROCKS

Matter textures and oxidized effects with decided characters.

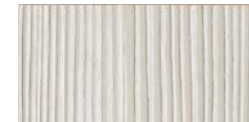
KALEIDOS

Light facets and 3D effects giving the impression of perspectives and permanently moving spaces.

ABET

WOOD

Expressiveness, warmth and tactile sensation of true wood in a wide range of colours and veining.



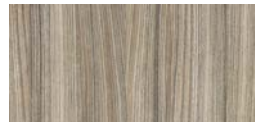
659 Pino Svizzera



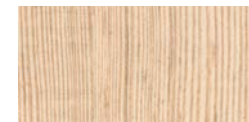
607 Morgan Ash



640 Larice



649 Santos Chiaro



381 Douglas Vanilla



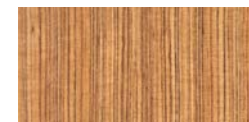
382 Douglas Honey



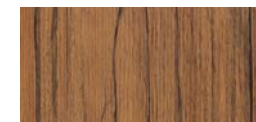
602 Rovere Boemia



1379 Rovere Sud



662 Teak Daniela



633 Limba Gold



626 Noce Mondolè



1324 Eastern Pecan

STAINLESS
STEEL



Polished



Scotch Brite



Brushes



Linen

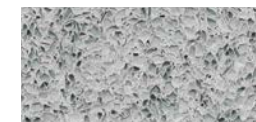
FLOORS

GRANIT TOUCH

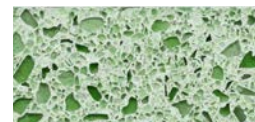
Agglomeration of granit glass, made using 69% recycled glass.



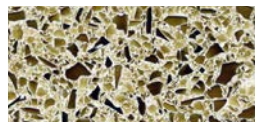
Touch 2400 New



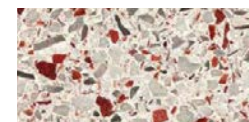
Touch 2402 New



Touch 2430 New



Touch 2422 New



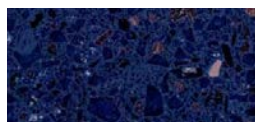
Touch 451 White Copper



Touch 424 Red



Touch 2414 New



Touch 453 Dark Blue

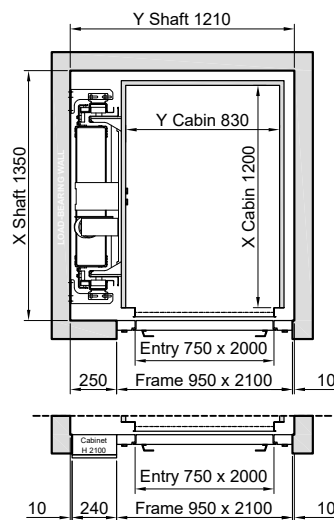
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1200 x 800

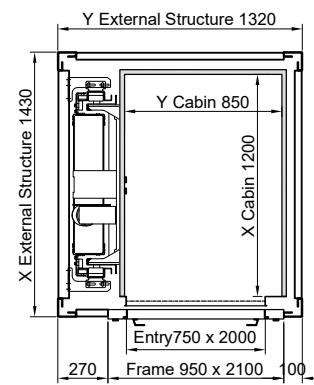


1AL

MASONRY

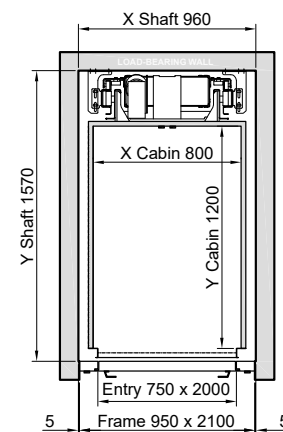


STRUCTURE

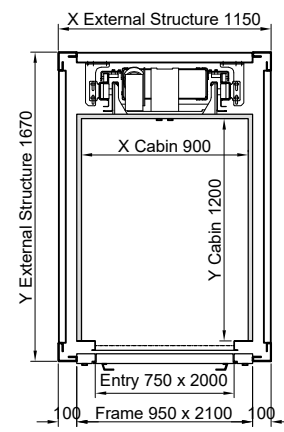


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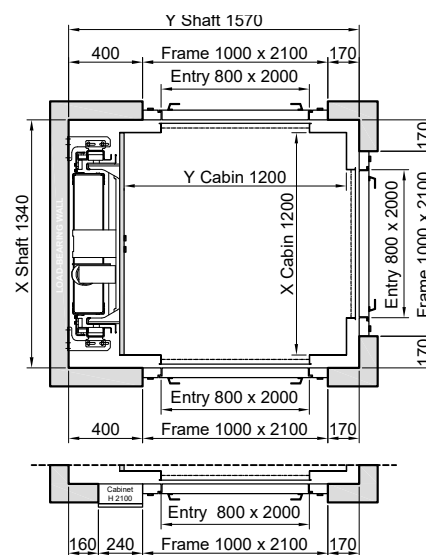


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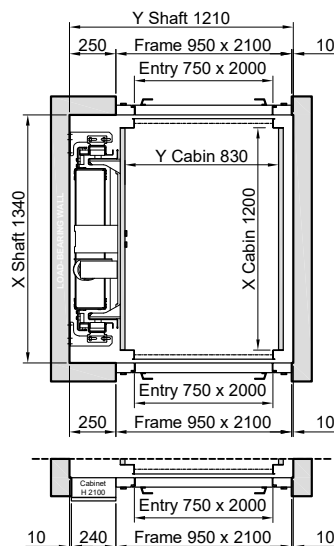
3A

MASONRY

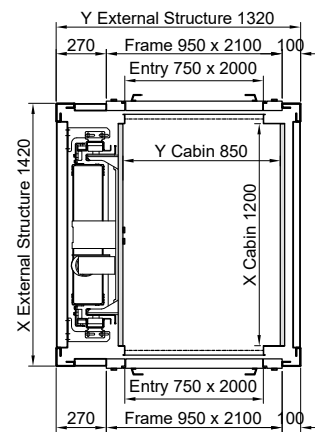


2AO

MASONRY

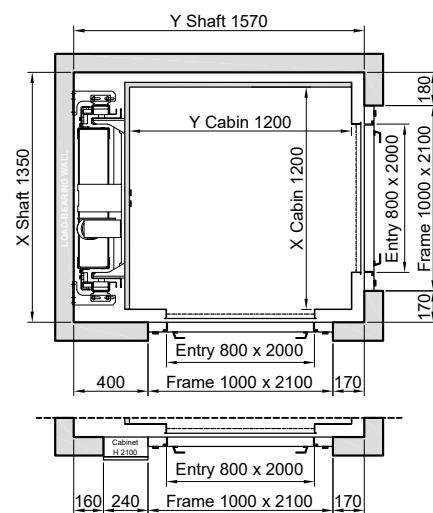


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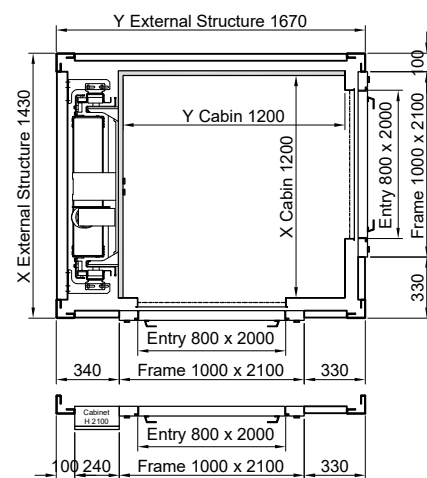


2AD

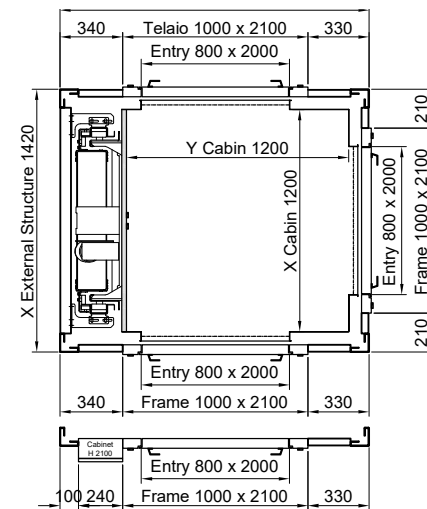
MASONRY



STRUCTURE



STRUCTURE

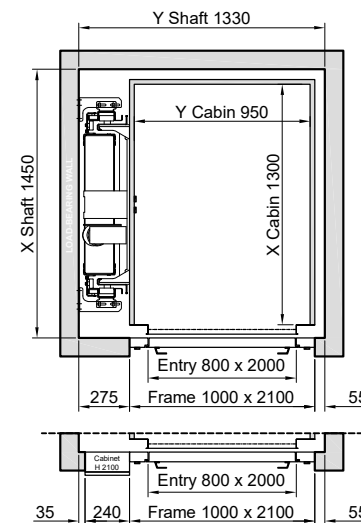


1300 x 950

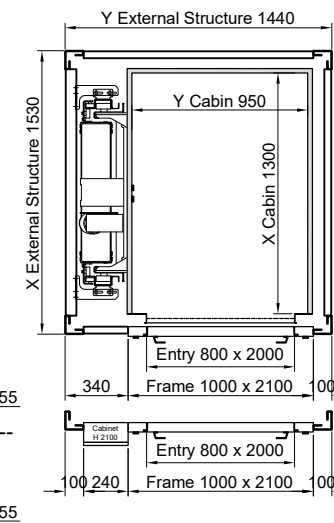


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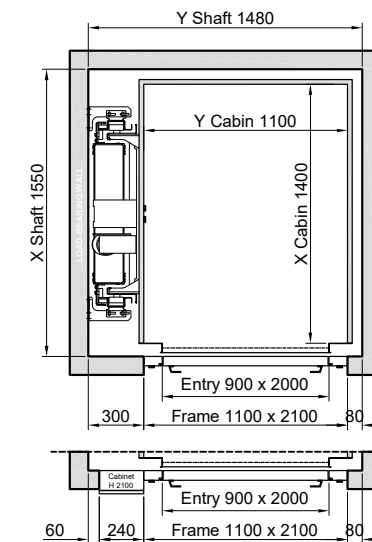


1400 x 1100

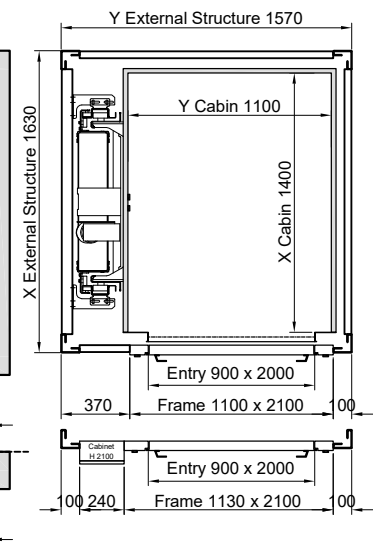


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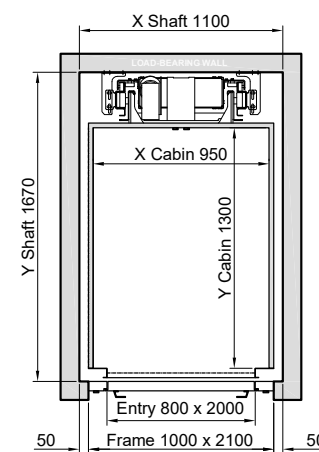


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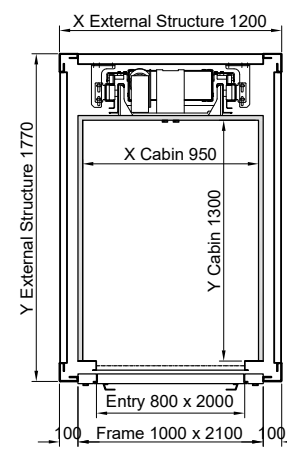


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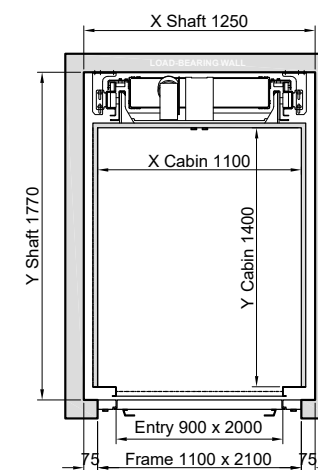


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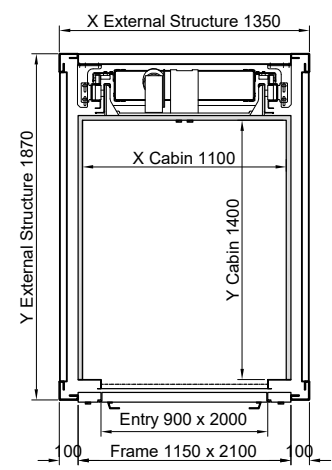


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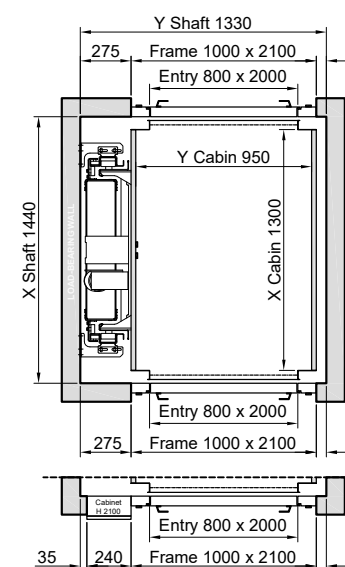


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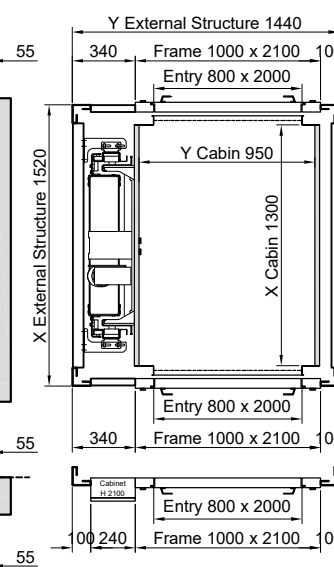


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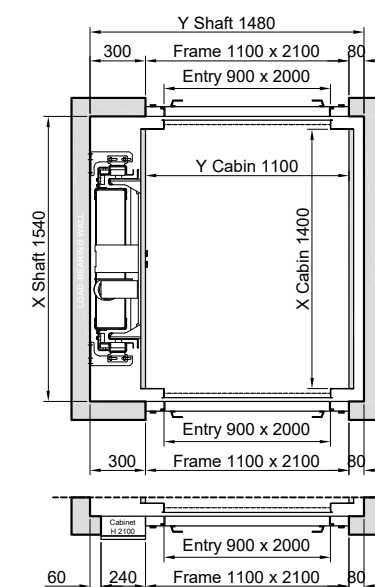


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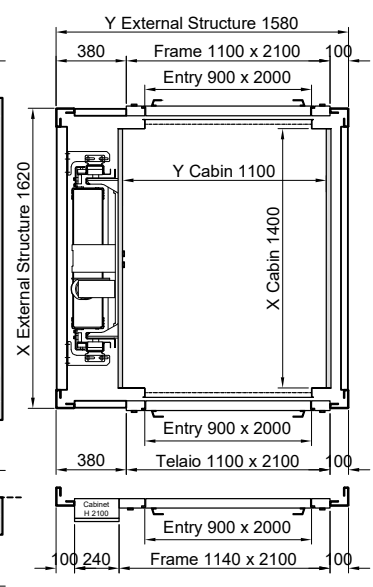


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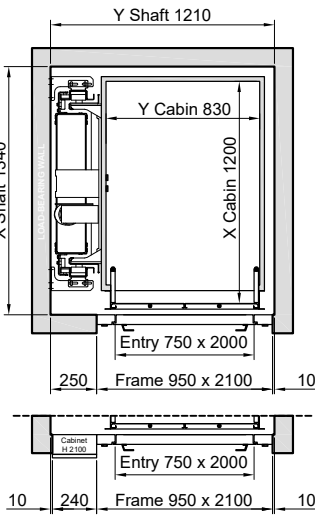


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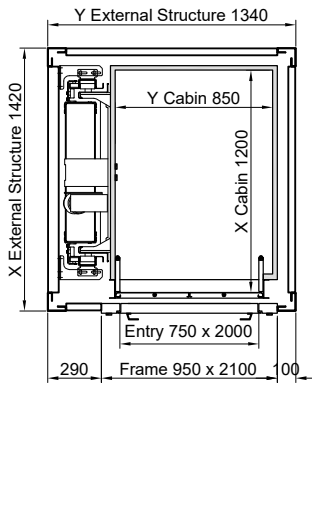


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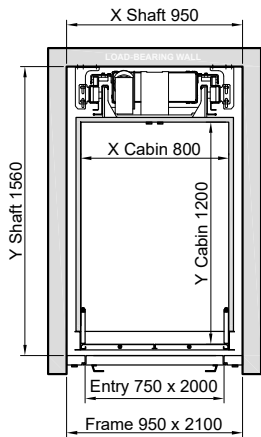


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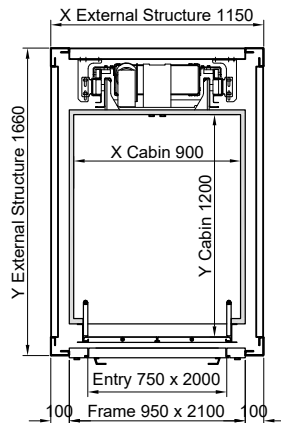


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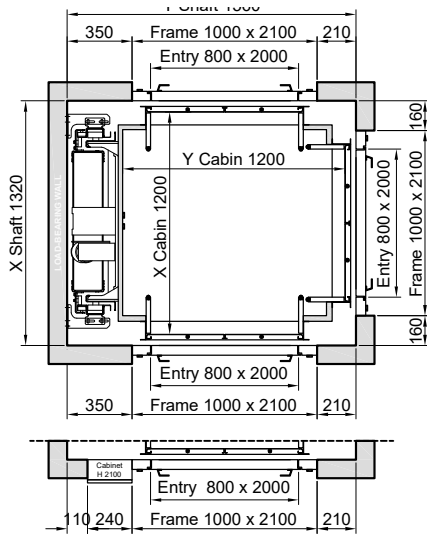


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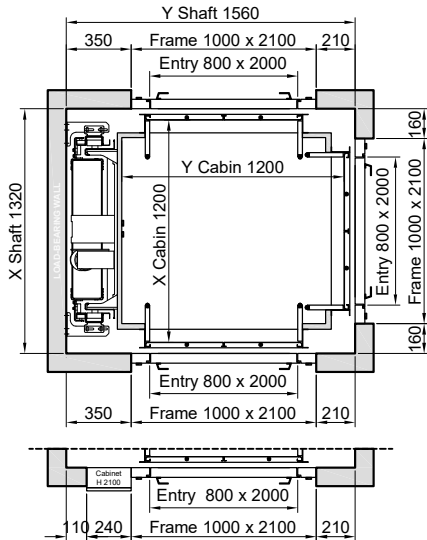


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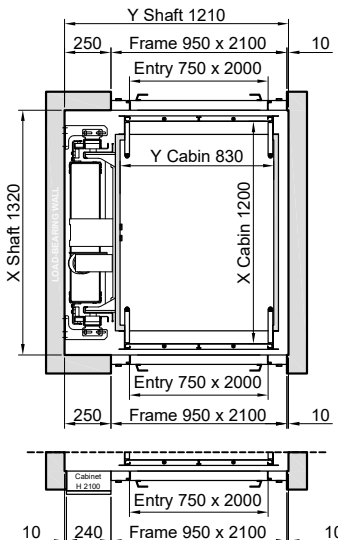


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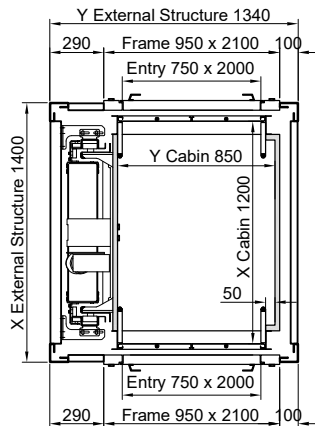


2AO

MASONRY

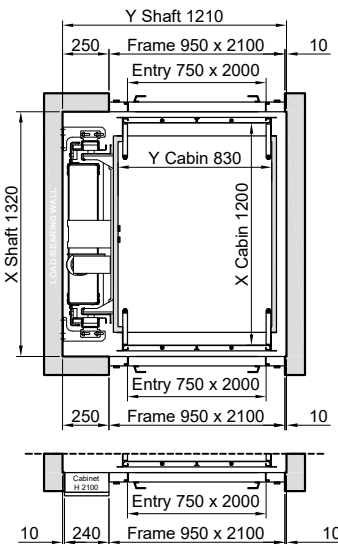


STRUCTURE

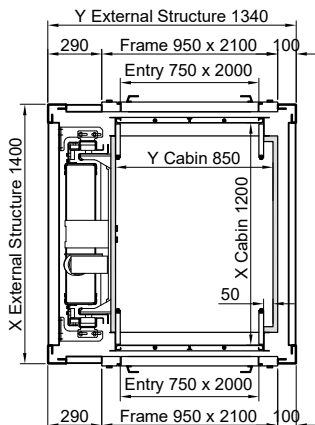


2AD

MASONRY



STRUCTURE

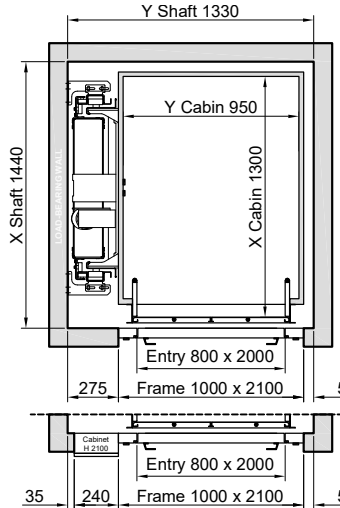


1300 x 950

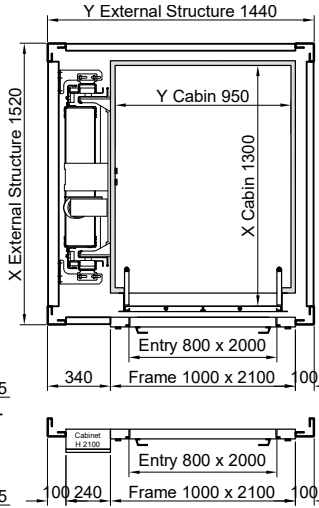


1AL

MASONRY

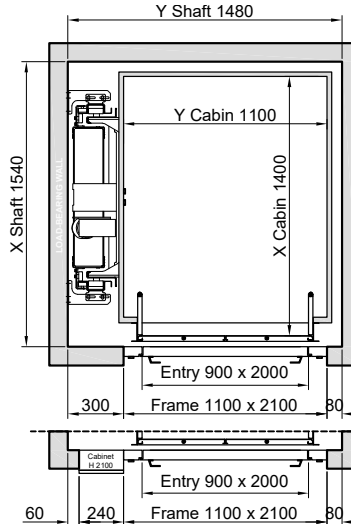


STRUCTURE

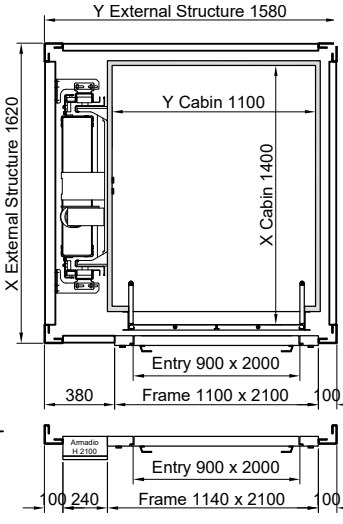


1AL

MASONRY

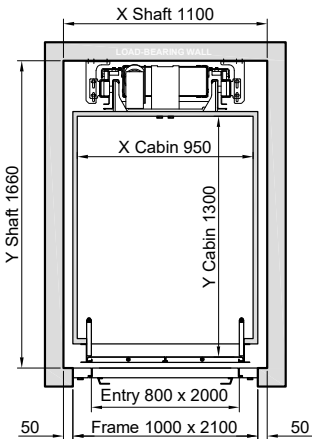


STRUCTURE

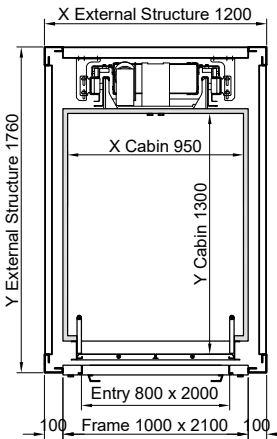


1AF

MASONRY

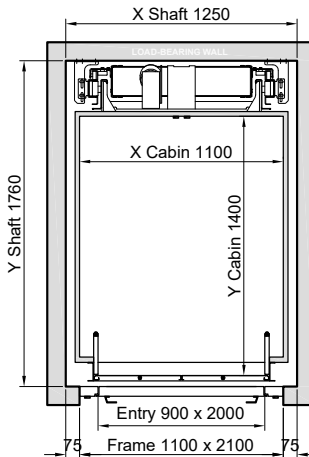


STRUCTURE

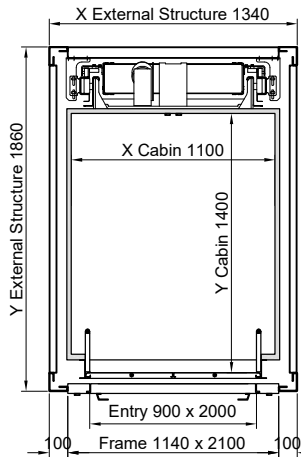


1AF

MASONRY

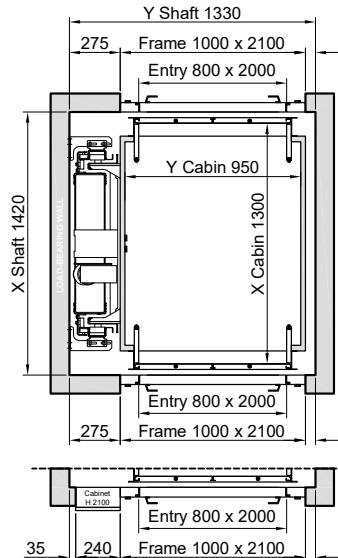


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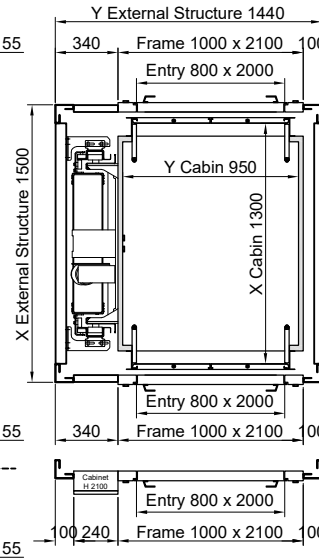


2AO

MASONRY

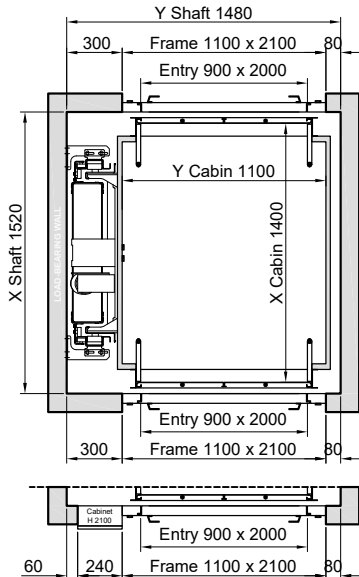


STRUCTURE

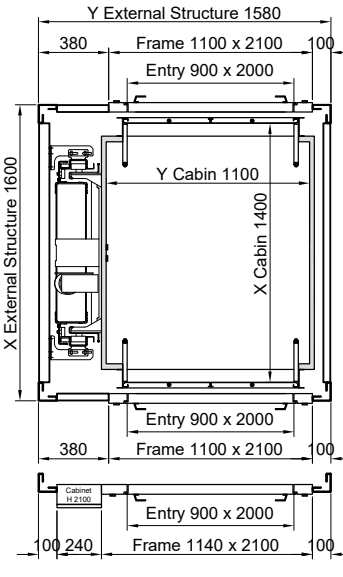


2AO

MASONRY



STRUCTURE

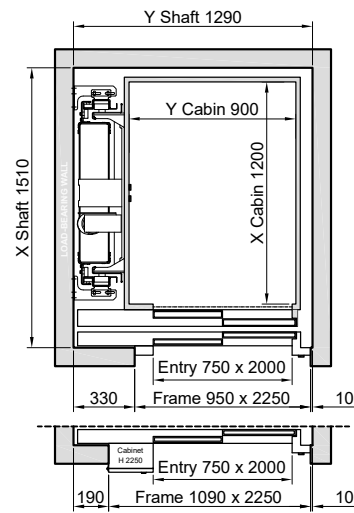


1200 x 800

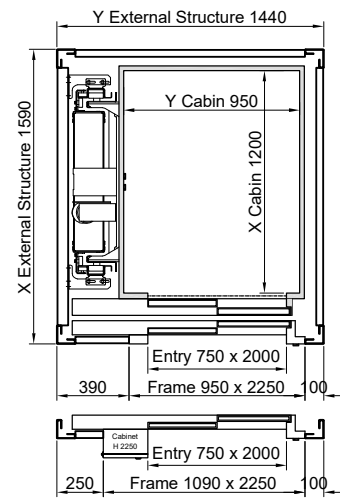


1AL

MASONRY

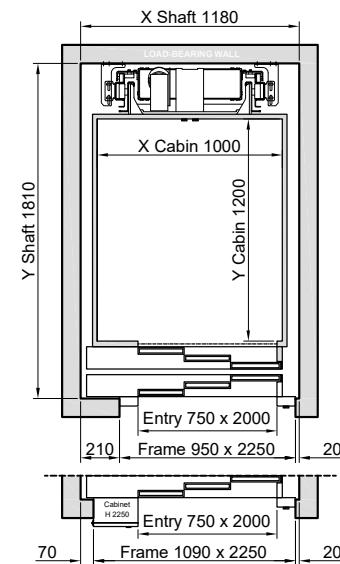


STRUCTURE

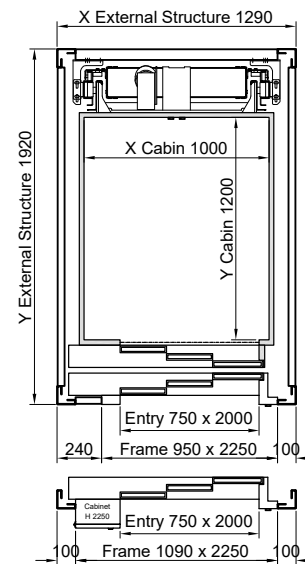


1AF

MASONRY

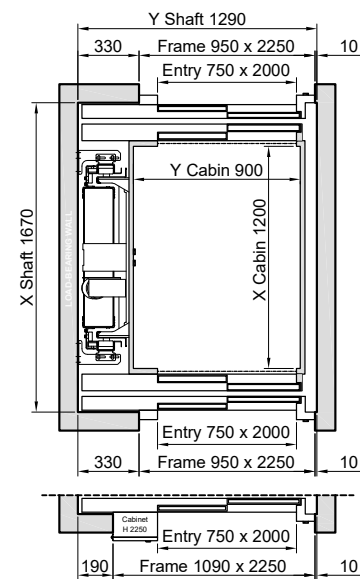


STRUCTURE

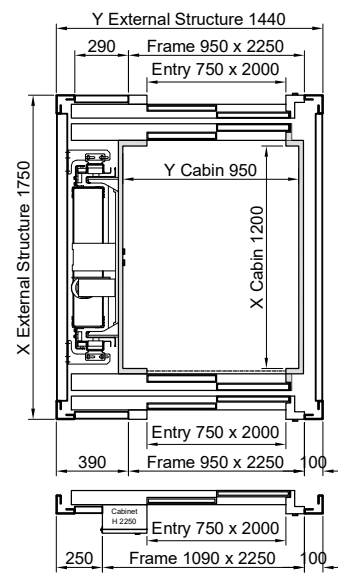


2AO

MASONRY

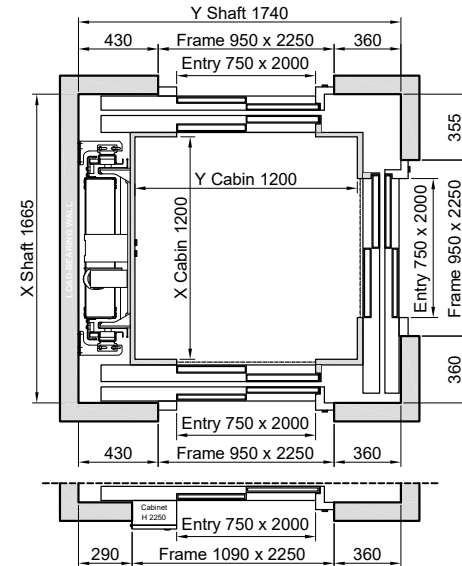


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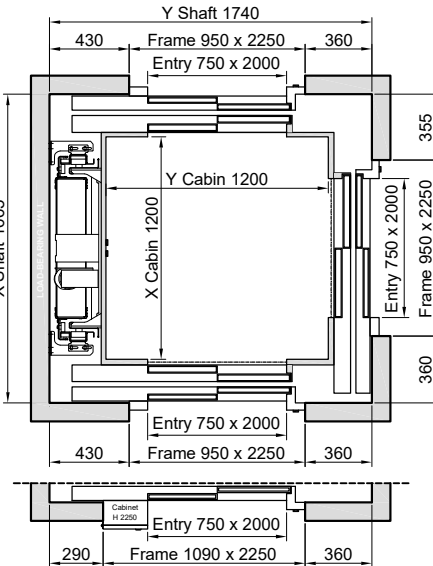


3A

MASONRY

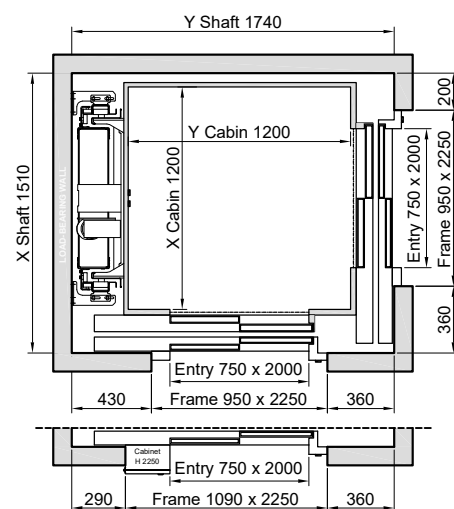


STRUCTURE

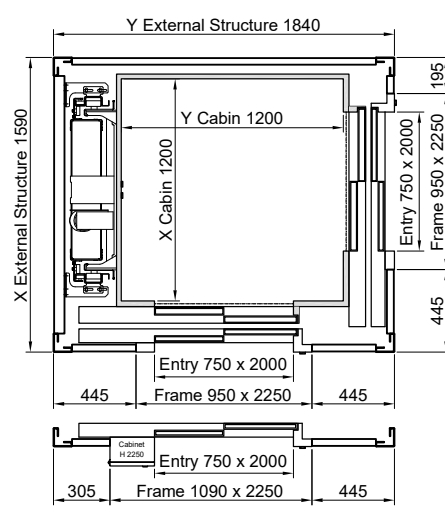


2AD

MASONRY



STRUCTURE

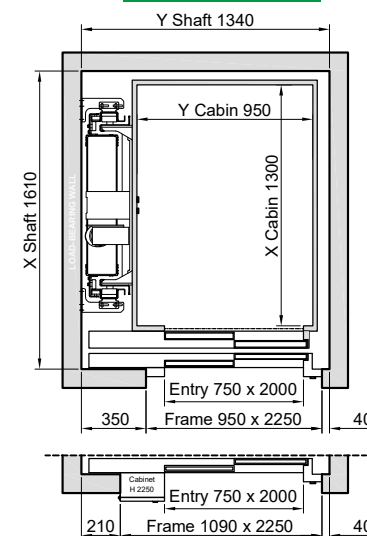


1300 x 950

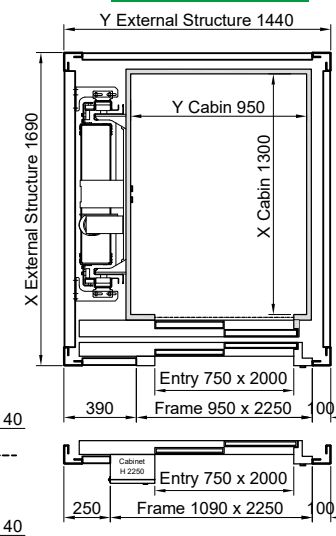


1AL

MASONRY

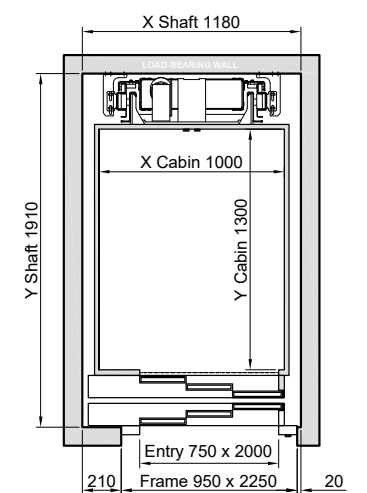


STRUCTURE

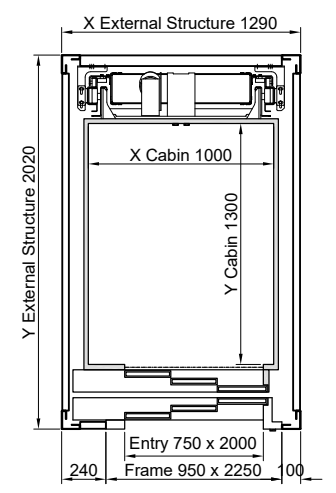


1AF

MASONRY

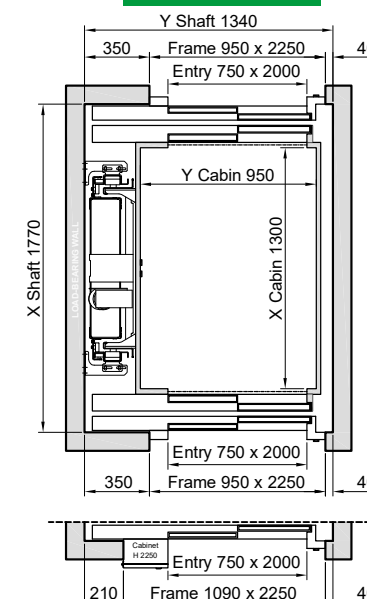


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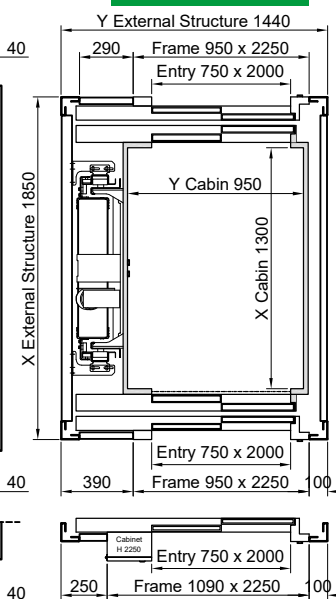


2AO

MASONRY



STRUCTURE

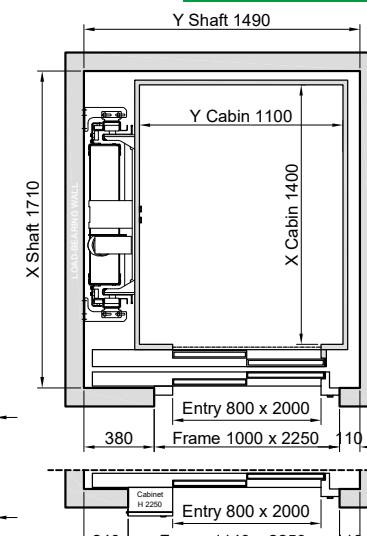


1400 x 1100

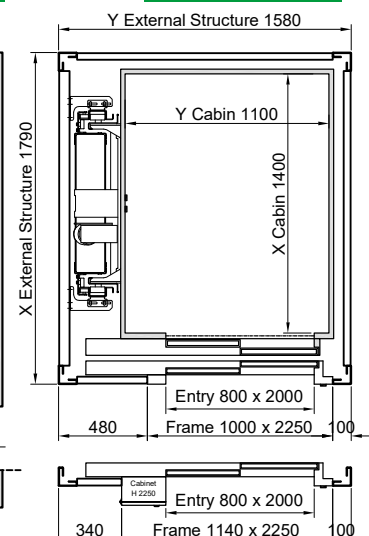


1AL

MASONRY

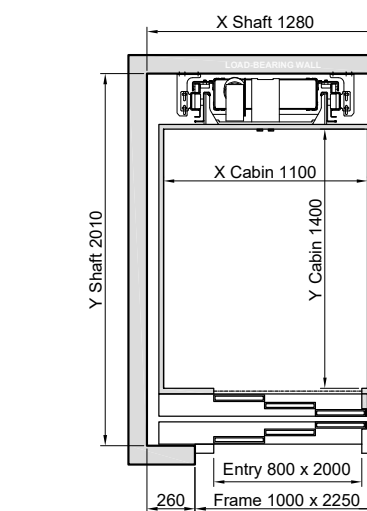


STRUCTURE

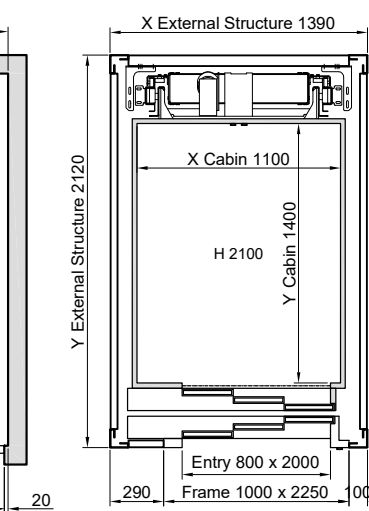


1AF

MASONRY

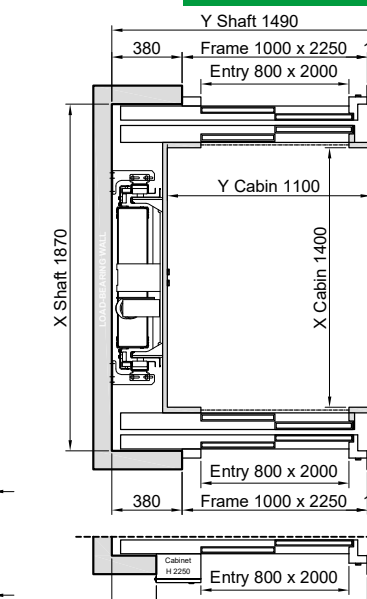


STRUCTURE

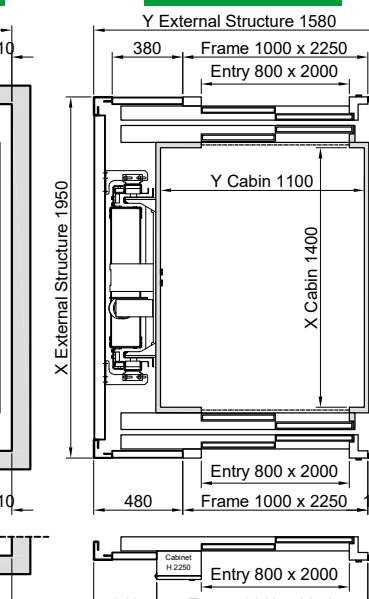


2AO

MASONRY



STRUCTURE



1AF 1 FRONT ENTRANCE

1AL 1 SIDE ENTRANCE

2AO 2 OPPOSITE ENTRANCES

2AD 2 ADJACENT ENTRANCES

3A 3 ENTRANCES

MASONRY

STRUCTURE

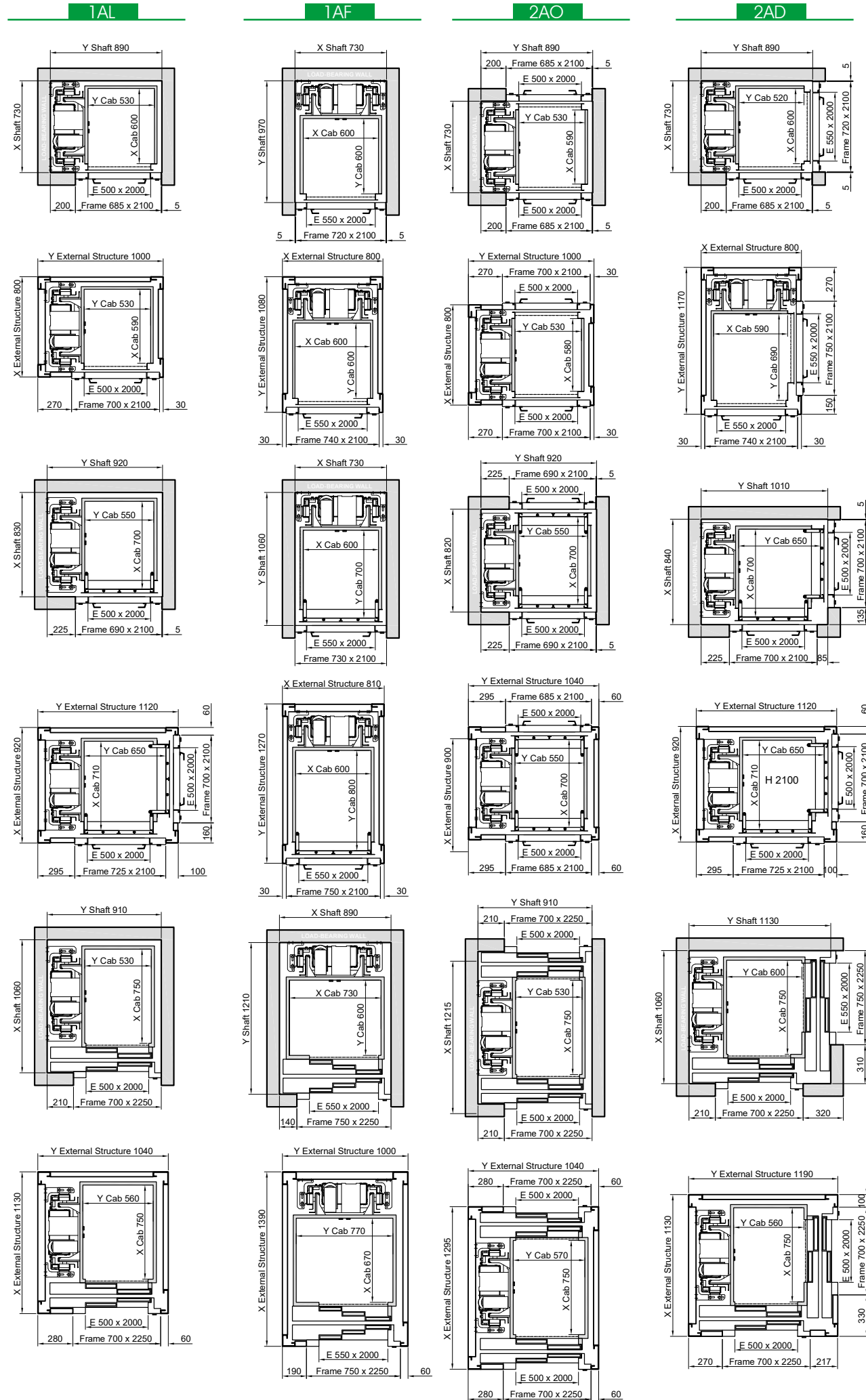
MASONRY

STRUCTURE

MASONRY

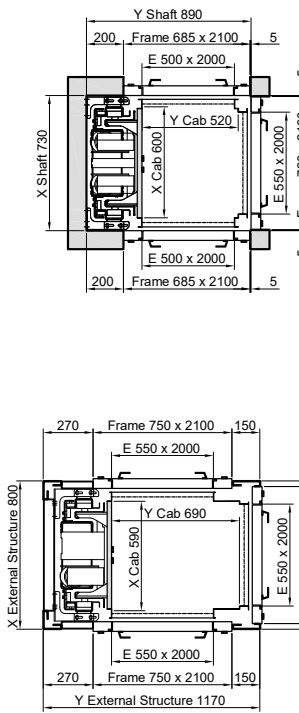
STRUCTURE

THE SMALLEST

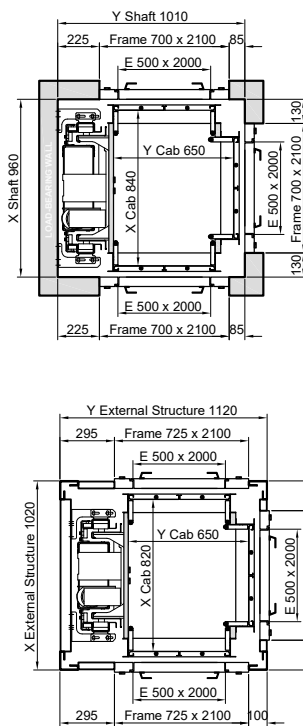


THE SMALLEST 3 ACCESSSES

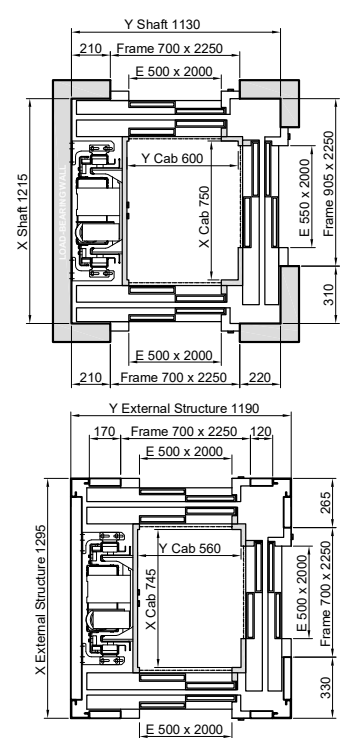
WITHOUT DOORS



WITH BUS DOOR

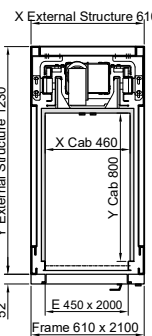


TELESCOPIC DOORS

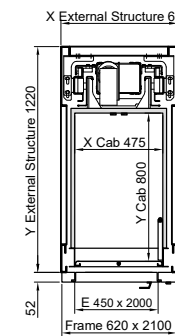


SPECIAL

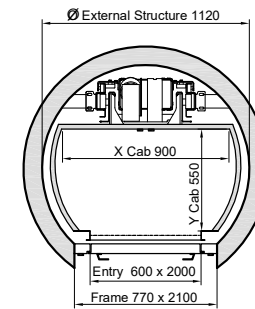
WITHOUT DOORS



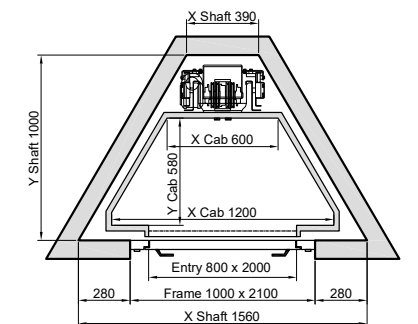
BUS DOOR



ROUND



TRAPEZOIDAL



Min Hadroom 2650 mm

TECHNICAL CABINET

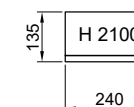
DOOR SIDE

Install protected from the weather



FINISHING:

- RAL Paint at choice
- Stainless Steel at choice



AT WALL H 2100

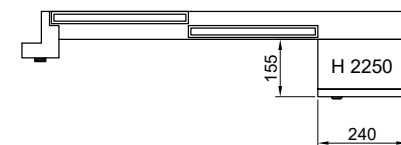
Install protected from the weather

FINISHING:

- Laminated sheet at choice
- RAL Paint at choice
- Stainless steel at choice

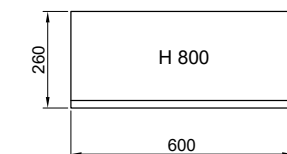
INTEGRATED INTO THE FRAME

Install protected from the weather



FINISHING:

- Laminated sheet at choice
- RAL Paint at choice
- Stainless steel at choice



AT WALL H 800

Protection IP66

FINISHING:

- RAL Paint 7001