

# LEA

*Electric Lift Platform*



**M** MBB  
ascensori

il piacere di sentirvi sollevati

M.B.B. ASCENSORI srl. has been operating in the field of lift systems since 1960.

We provide reliable, sound, and aesthetically pleasing solutions for all your needs.



From price estimate through to design, execution, installation and assistance.

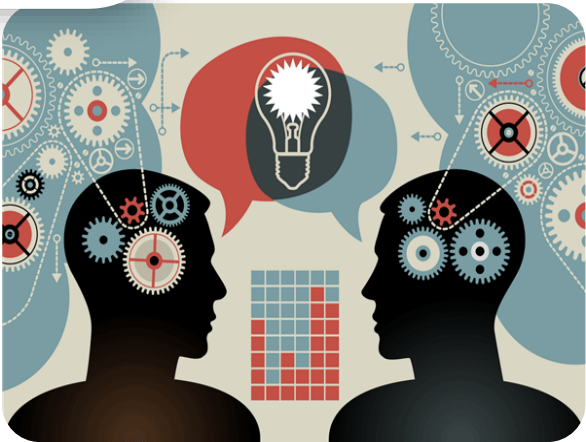


Clients can rely on **M.B.B. ASCENSORI srl.** An all in one organization for ready, flexible solutions and cost savings.

Contact **MBB Ascensori.** Discover our consolidated know-how and our technology expertise. We also offer assistance and flexibility.



Adaptability and system personalization are what make **MBB Ascensori** what it is



Entirely produced in Italy, by highly skilled workers.





*With the feeling lifted lovely sensation*



## Energy Savings

The LEA electric platform was conceived bearing in mind **energy saving** and **low environmental impact**.

Confirming the commitment of **MBB Ascensori** to the environment, the LEA electric platform is based on standards established by **Verein Deutscher Ingenieure (VDI)\***, prestigious association of German engineers.

VDI 4707 proposes an objective criterion for unequivocally assessing the energy performance of lifting systems.

The energy efficiency of a lifting system is classified using seven different categories, A to G where:

- A represents the most efficient classification (lower energy consumption)
- G the least efficient (higher energy consumption).

VDI 4707 measures energy efficiency on the basis of use category on a scale of 1 to 5, where 1 represents low use systems and 5 represents intensive use systems.

Measurements on standard configuration installations have allowed MBB Ascensori to obtain the merit of **best classification in terms of energy efficiency**. Taking into account both technological and environmental factors.

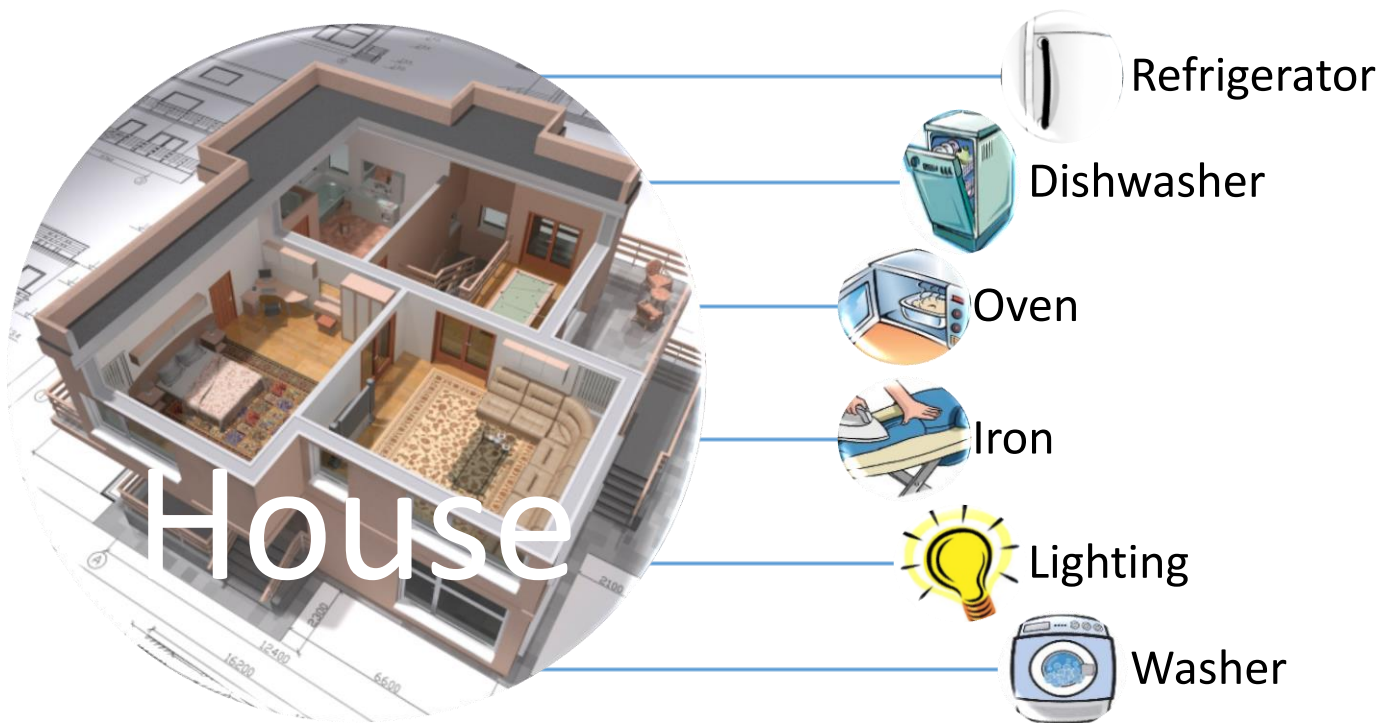
**The LEA electric platform is clearly top in its class.**

\* ISO field standards are still under development; therefore, the VDI 4707 guidelines in the absence of ISO standards are the authoritative source of energy measurement and classification of lifts in Europe.



Thanks to its low consumption, the LEA platform can be safely **used simultaneously with other household appliances** without worrying about exceeding subscribed power<sup>1</sup>.

1: according to the type of energy contract subscribed (e.g. 3 kW or more)



Tests highlighted an **extremely limited consumption** as compared to traditional household appliances. If compared to the number of uses (daily hours as compared to number of times weekly), the LEA platform has a lower annual consumption - translating to **significant cost savings!**



**For 8 hours of operation \***  
**Only 130 W/h**

\*in a 24-hour period

"Energy cannot be created or destroyed, it can only be changed from one form to another".

Change the way you use energy with a LEA platform.

## LEA – ELECTRIC PLATFORM

**Ideal for moving about freely in multi-level homes - both inside and outside.**

State of the art evolution compatible with the provisions of **Machinery Directive** 2006/42 CE, led MBB ASCENSORI srl. to design LEA. The electric platform satisfies the need for a lift system facilitating vertical mobility even in **small spaces**. Outfitting the system with the machinery in the column head, inside the hoist way, **optimizes space use and minimizes costs**.

Custom tailoring allows us to supply vertical transport solutions for low attendance buildings.

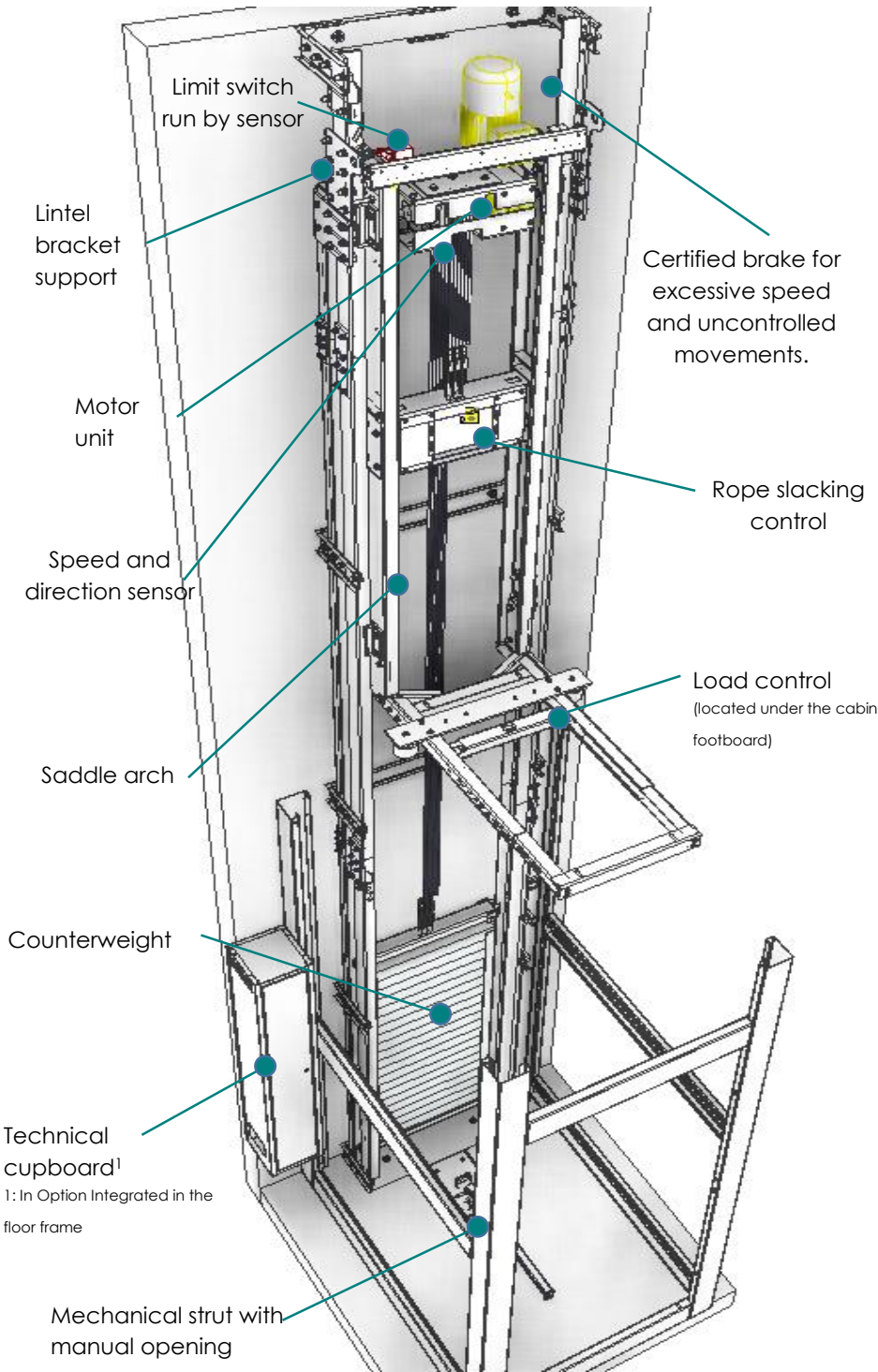
The LEA model covers runs of up to 20,00 m with a running speed of 0,15 m/s as set out in **Machinery Directive**. Up to 3 cabin accesses. A VVVF inverter controls speed to optimize comfort, **lower environmental impact and maximize the equipment's life cycle**.

**Installation is possible even in particularly tight stairwells.** The SOLE, LUNA and STELLA models are designed and built using a “**custom made**” approach making the most of every available millimetre.

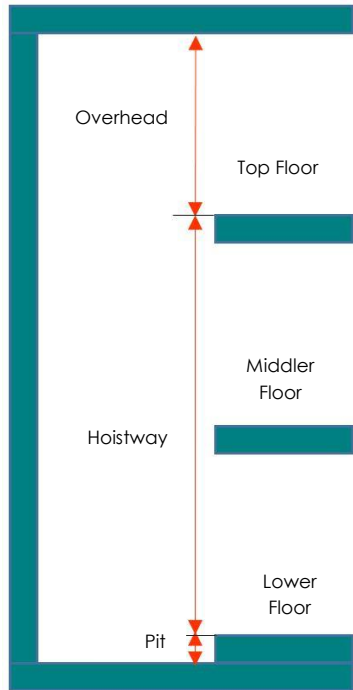




TECHNICAL CHARACTERISTICS - LEA



LEA is actioned by a winch motor unit positioned high in the column head, which transmits motion to a friction pulley. The pulley transmits motion to the cabin by means of traction ropes. Movement of the load is facilitated by a counterweight whose mass is optimized in relation to cabin size and rated load. Load movement and suspension are direct type.



The arch is a cantilever type arch; cabin and counterweight are anchored to the same C-rail for easy assembly and to optimize the use of available space.

CHARACTERISTICS	Minimum	Maximum
Rated load	250 kg	380 kg
Speed	0.15 m/sec	0.15 m/sec
Travel	2500 mm	20.000 mm
Column head	2400 mm	2700 mm
Pit	150 mm	150 mm
Stops	2	8
Cabin accesses	1	3
Loading deck access	1x2	8x3

Electric network	
Power	230 V
Engaged power	750 W
Rated draw	2.5 A
Line	Single phase
Frequency	50 Hz

# PRINCIPAL CHARACTERISTICS OF LEA



## Optimum energy efficiency

LEA is classified Class A (according to VDI 4707 standards), its consumption does not affect normal daily routines and it allows considerable savings. LEA is also a low impact product.



## Anti black-out <sup>1</sup> system

The platform can be equipped with an in-cabin emergency manoeuvre device that is automatically activated in the event of a power black-out. It **returns the cabin back to loading deck level.**

A manual, emergency maneuver device can be activated from the control panel only when the main power supply is on. Or, in alternative, if the system is equipped with an emergency black-out battery it can also be used when there is no main power supply.

1: Optional

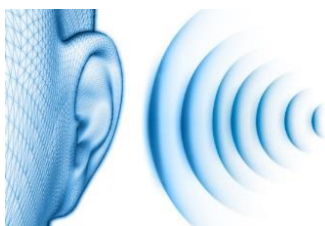
## Safety

The LEA platform is outfitted with multiple safety devices:

- ✓ Excessive speed detection: a pulley rotation frequency detector that interrupts maneuver in case of excessive speed
- ✓ The brake on the motor is certified against uncontrolled movements (*Amendment A3*) and the winch is over sized to prevent mechanical failure
- ✓ Backstop against entrapment in the load support: telephone dialer<sup>1</sup> + manoeuvre to loading deck level with emergency black out battery if the backstops are closed<sup>2</sup>
- ✓ The load support is suspended using 6 traction ropes that guarantee a safety coefficient at least double that required by **Machinery Directive**.
- ✓ Backstop for pit access: mechanical strut with manual opening and safety contacts which inhibit the lift installation to start when the strut is in active position
- ✓ Backstop for accessing the end carriage: hatch on cabin roof with backstop contact
- ✓ Obligatory maintenance with downtime to check ropes and mechanical part wear
- ✓ 1 and 2: Optional



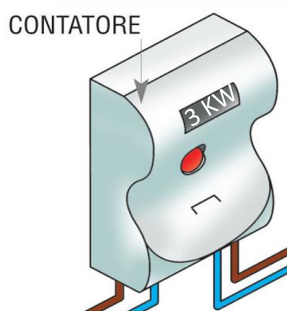




## Comfort and Silence

The LEA platform was designed to guarantee maximum comfort during its operation. It is equipped with a **soft stop and go system** that provides **extremely quiet operation**.

**50 dB** (According to the decibel scale it compares to a conversation at a 1 m)



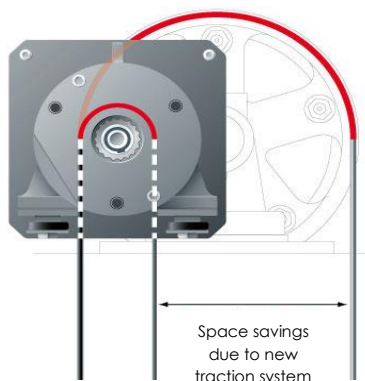
## No increase in required energy

Thanks to its low consumption, LEA can be **used with other household appliances** without having to increase power supply. Standard electrical power supply used in private dwellings or available in common electricity meter in condominiums' stairwells is sufficient to power the lift.

$$1+1=2$$

## Fast and simple assembly

Designed to be **quick and easy to install** the LEA platform is economically competitive. Assembly requires only a few simple components.



## No machine room

LEA positions the motor unit in the column head directly anchored to the lintel and counterweight guides, inside the hoist way.

This eliminates the need for additional space to house hydraulic power units and control panels<sup>1</sup>, allowing **installation even in the smallest of spaces**.

<sup>1</sup>: As an option the control panel can be integrated into the loading deck door



## Ecologic and Clean

Since hydraulic oil is not required, you can benefit from the additional cost savings our system provides while promoting a clean, ecological friendly system. No disposal required.



LUNA MODEL



SOLE MODEL

The following are possible LEA platform set ups:

**SOLE Model**

- Without cabin door
- Semi automatic loading deck door - push to open type
- Semi automatic - push to open type

**LUNA Model**

- Loading deck and cabin doors - automatic horizontally sliding type

**STELLA Model**

- Bellow Cabin doors
- Semiautomatic push to open type loading deck doors

Versions	Type	User Maneuver	
		In Cabin	Loading level
SOLE	With Cabin doors	Manual <sup>1</sup>	Automatic <sup>2</sup>
LUNA	Automatic Cabin doors	Automatic	Automatic
STELLA	Bellow Cabin doors	Automatic	Automatic

1: Manual or "Manned" = During the run the cabin button must be kept pressed.  
 2: Automatic = Once the cabin button has been pressed the lift departs without having to keep the button pressed.



STELLA MODEL

# HINGED DOOR

LEA lift platform doors adapt easily to any space and interior design requirement. **Numerous custom options** can be integrated in a vast variety of contexts for maximum aesthetical impact.

Available options are semi-automatic hinged doors, doors outfitted to be opening manually, and automatically closing doors equipped with a return spring.

Range one hinged door				
Opening	Height			
	2000	2100	2200	2300
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				
1050				
1100				



With hide away handle  
**Anna**



With panoramic window  
**Marilyn**



With half window  
**Ginger**



With hide away handle  
**Margaret**



With crystal handle  
**Kate**



With stainless steel tubular handle  
**Greta**



Crystal and stainless steel brass  
**Krystal**

**Versions:**

- Semi-automatic/Manual opening/ Automatic closure
- Windowless or entirely panoramic door
- Stainless steel tubular or hide away handle
- RAL 7001 and RAL 7032 rust proof varnish/ RAL varnish
- Fire doors
- Insulated doors: for energy savings according to UNI EN ISO 10077-1.2 standards
- TF, Kronenberg\*, Prudhomme\* fittings (\* on order)



# AUTOMATIC DOORS

## Loading deck sashes and frames

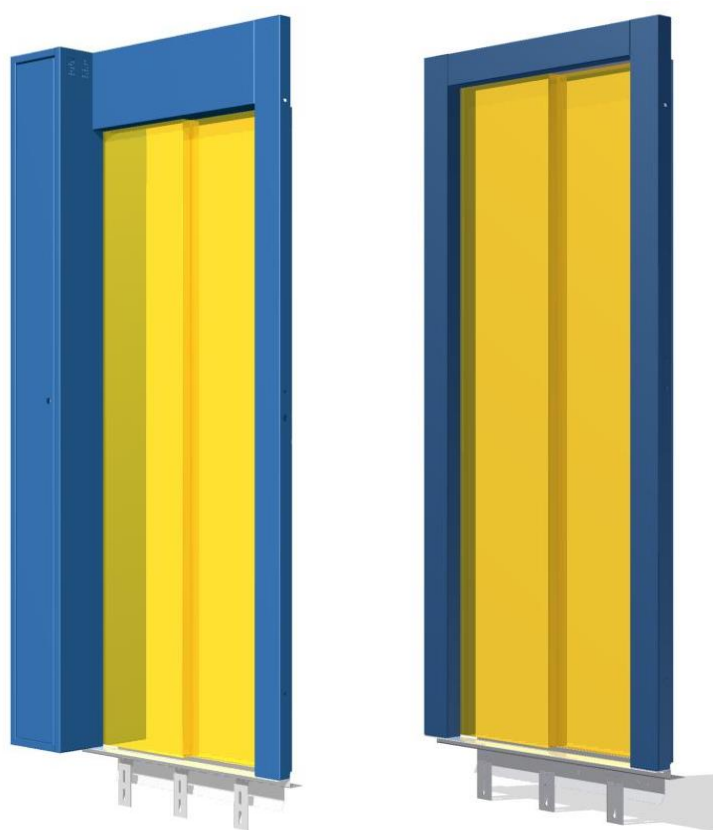
The LEA platform offers various solutions for automatic loading deck doors equipped with sliding sashes with electronic operator <sup>1</sup>

1: The electronic operator allows the doors to open and close automatically

### Versions:

- Skinplate loading deck sashes and frames. Vast array of colors to chose, from available from MBB
- loading deck sashes and frames in stainless steel (Vast array of styles to chose from, available from MBB
- RAL varnished loading deck sashes and frames, all RAL colors available.
- Skinplate sashes, vast ABET® array to chose from
- "Glass&Metal" sashes – glass with stainless steel frame<sup>2</sup>.
- "Total Glass" sashes entirely made of glass<sup>2</sup>.

2: According to suppliers' availability



Frames and sashes are produced by MBB Ascensori.  
The sashes and frame types vary according to the mechanisms adopted.



## BELLOW DOORS

Automatic bellow doors in the cabin are another one of our options. In the automatic version the bellow panels are controlled by an electronic operator and the movement is controlled by a mobile device.

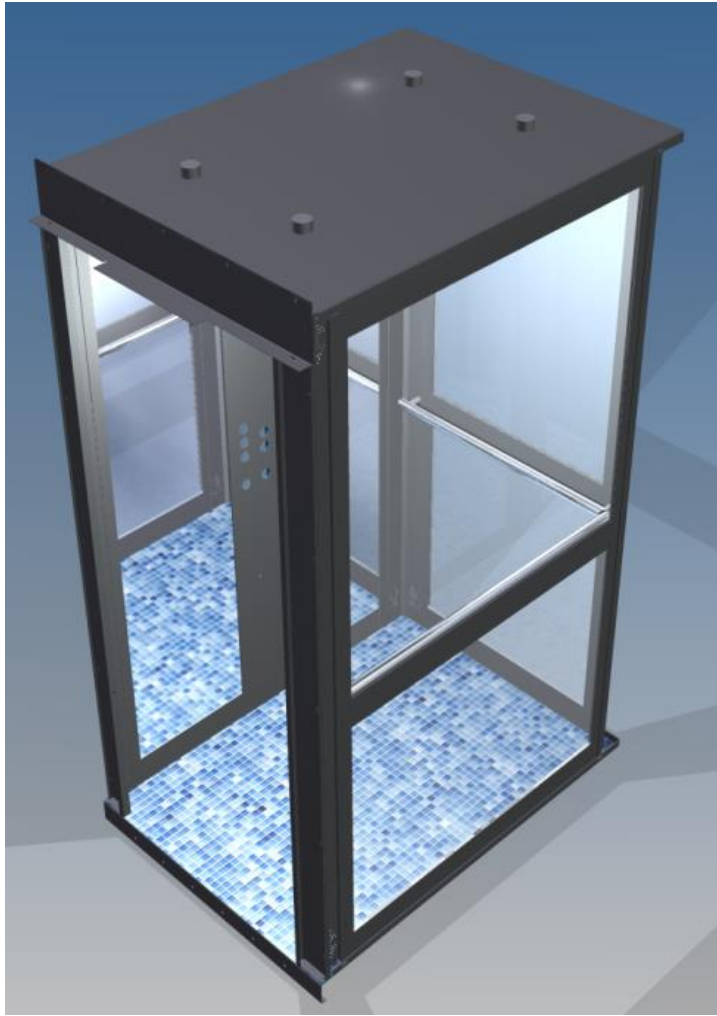
- Easy installation and tuning
- DC motor system with gearbox
- Can be used with or without encoder
- CE closing system



### Versions:

- Stainless steel coating
- RAL varnish
- Panoramic coating





## LEA PLATFORM CABINS

Our cabins are assembled in all their components, entirely in the cabin itself, so that on-site assembly is both **simpler and faster**, for proven savings.

The wide range of colours for walls, trims and floors allow for any combination of colours and materials.

Our vast selection of accessories, handrails, and displays make each cabin unique.



- Mirror: 1/2 or whole wall
- Transparent glass: 1/2 panoramic wall or whole panoramic wall
- Adjacent walls can also be equipped with glazed surfaces
- Surface with or without breaker seam
- All walls, even adjacent glazed surface ones, can be equipped with handrails



## Lighting



- Lamp + transformer kit
- Roof ceiling with safety hatch
- Fan (optional)
- Design can be chosen by the client if requested

## Handrail



- Satin or shiny stainless finish (both are available with 45° rounded corners)
- Wooden
- Chromed brass
- Rounded corner PVC

## Protective Strips<sup>1</sup>



- Skinplate sheet metal baseboard
- AISI satin finish stainless steel baseboard
- Wood or PVC buffer strip

1: on order

## Display & Buttons



- Emergency and display lights are standard
- Telephone dialer (optional)

SKINPLATE COATINGS

Glossy



F12PPS-Similinox



PPS6-Silver Cream



PPS10-Marble



PPS12-Marina



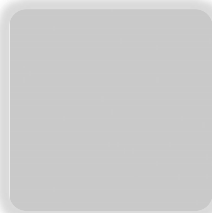
PPS31-Silver Blue



PPS17-Black



DL1-Fake Wood



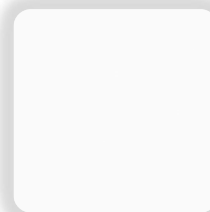
N5SA-Moderate Grey



A35SA-Moderate Grey



F16PP-Polished Grey



A49PP-White



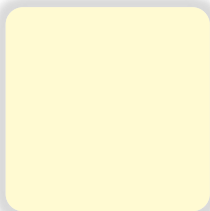
A24SA-Ice



B1SA-Moderate Blue



A5SA-Beige



G19SA-Pastell Yellow



G4SA-Orange Plain



G13SA-Orange Moderate



R3SA-Polished Red

## Embossed



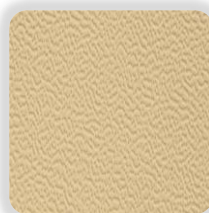
B1-Blue Ivory



B22SMA-Blue



R2-Red



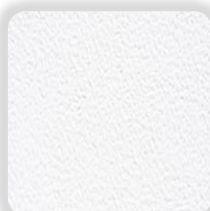
A13-Beige



N1-Gray



A26-Cream



A1SMA-White



N3-Black



V4-Green

## STAINLESS STEEL COATINGS



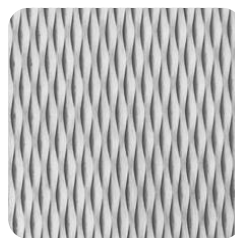
SB-Scotch Brite



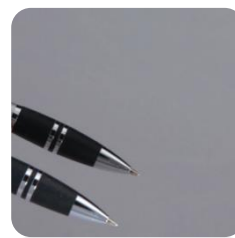
Dama



Lino



5WL-Grain of Rise



STC8-Super Mirror

Coatings are subject to change without notice.

The colours represented may differ from the actual color due to the printing reasons.

## PLASTIC LAMINATES

Vast selection of ABET® Laminati to chose from.



Unlimited selection

## VARNISHED SHEET METAL

RAL varnished, all RAL colors available.

Pearl finishes excluded





Colors and Materials for the floors

SURE STEP



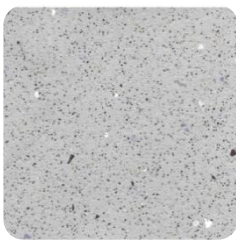
Step-8935



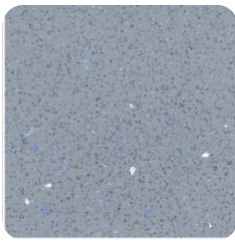
Step-17156



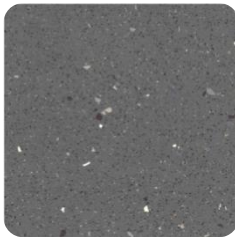
Step-17179



Step-17102



Step-17173



Step-17194



Step-17199



3848-Real Graphite

VINYLES - Polyfloor XL PU



3740-Sky Blue



3890-Cream



3790-Green



3710-Grey

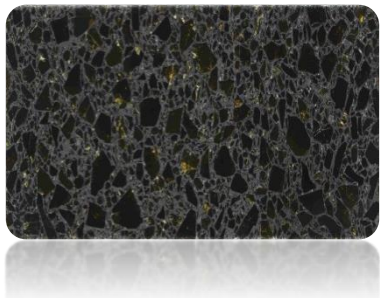
# TOUCH – Artificial Granite



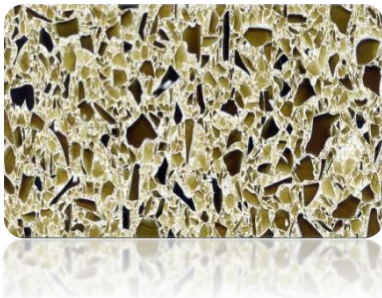
Touch-2400



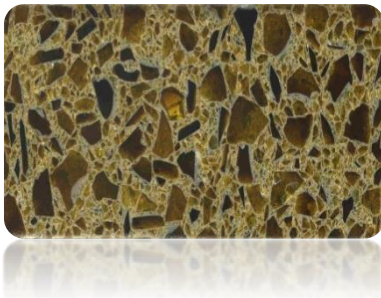
Touch-2402



Touch-2404



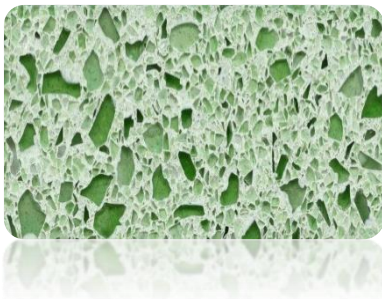
Touch-2422



Touch-2424



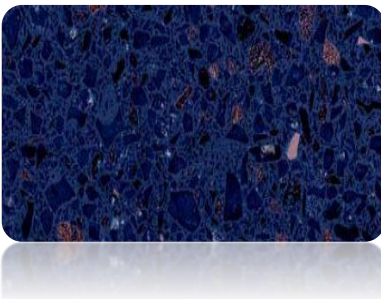
Touch-609



Touch-2430



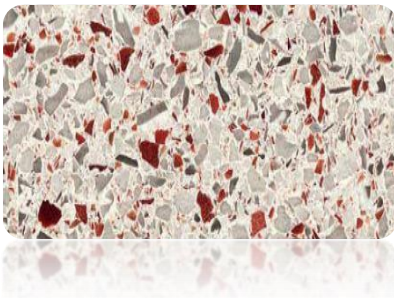
Touch-2414



Touch-453



Touch-424



Touch-451

Floors are subject to change without notice.  
The colours represented may differ from the actual color due to the printing reasons.



## METAL FRAMEWORK

MBB lifting platforms can be **installed on load bearing walls**, using specific wall anchorage brackets or, using a **metal framework** which makes them adaptable to all residential environments.

All metal frames comply with the European regulation 305/2011 and are thus in conformity with UNI EN 1090-1.

### Versions

Powder based RAL color finish

- Stainless steel coating

### Cladding

- Transparent laminated glass
- Smoked laminated glass
- Stopsol laminated glass
- Milky white laminated glass
- RAL color varnished sheet metal panel
- Stainless steel panel

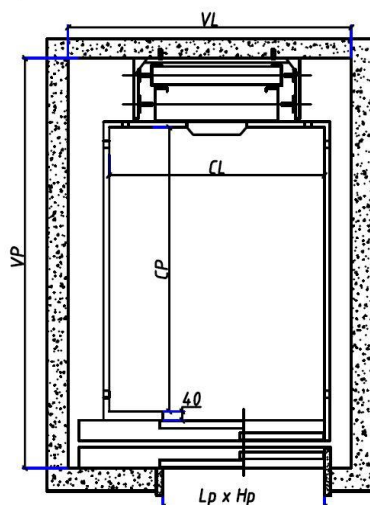




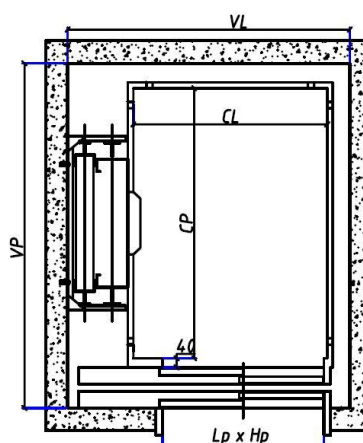
## SPACE REQUIREMENTS

### Automatic-Luna

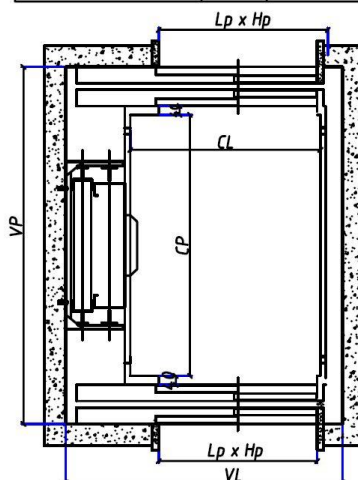
<i>Ingresso con guide lato corto</i>			
Interno Netto Vano mm.	VL x VP	1300 x 1805	
Interno Cabina mm.	CL x CP	1000 x 1200	
Luce passaggio mm.	LP x HP	750 x 2000	



<i>Ingresso con guide a lato</i>			
Interno Netto Vano mm.	VL x VP	1310 x 1530	
Interno Cabina mm.	CL x CP	900 x 1200	
Luce passaggio mm.	LP x HP	750 x 2000	

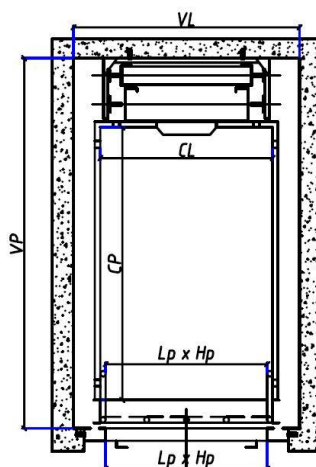


<i>Doppio Ingresso frontale con guide a lato</i>			
Interno Netto Vano mm.	VL x VP	1310 x 1640	
Interno Cabina mm.	CL x CP	900 x 1200	
Luce passaggio mm.	LP x HP	750 x 2000	

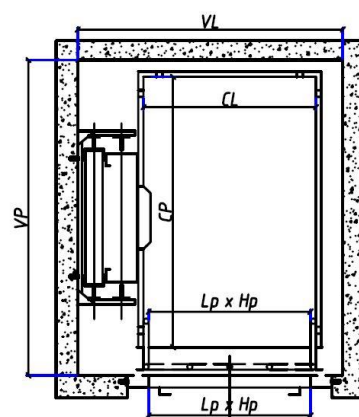


### Bellow-Stella

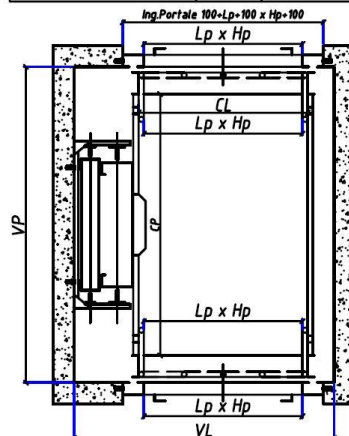
<i>Ingresso con guide lato corto</i>			
Interno Netto Vano mm.	VL x VP	1050 x 1630	
Interno Cabina mm.	CL x CP	800 x 1200	
Luce passaggio mm.	LP x HP	750 x 2000	



<i>Ingresso con guide a lato</i>			
Interno Netto Vano mm.	VL x VP	1230 x 1400	
Interno Cabina mm.	CL x CP	800 x 1200	
Luce passaggio mm.	LP x HP	750 x 2000	

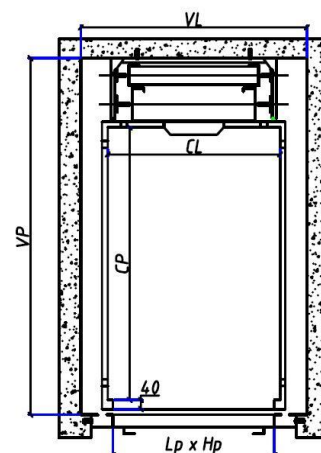


<i>Doppio Ingresso frontale con guide a lato</i>			
Interno Netto Vano mm.	VL x VP	1230 x 1450	
Interno Cabina mm.	CL x CP	800 x 1200	
Luce passaggio mm.	LP x HP	750 x 2000	

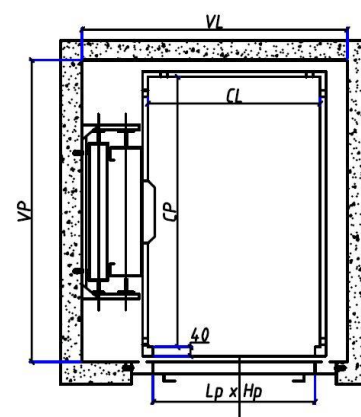


### Door Less-Sole

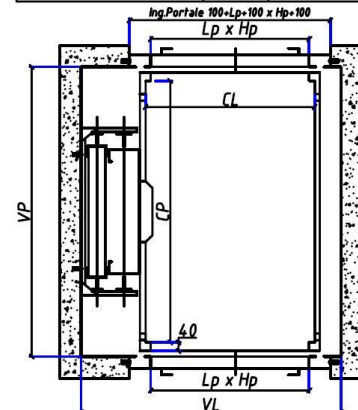
<i>Ingresso con guide lato corto</i>			
Interno Netto Vano mm.	VL x VP	1050 x 1570	
Interno Cabina mm.	CL x CP	800 x 1200	
Luce passaggio mm.	LP x HP	750 x 2000	



<i>Ingresso con guide a lato</i>			
Interno Netto Vano mm.	VL x VP	1230 x 1340	
Interno Cabina mm.	CL x CP	800 x 1200	
Luce passaggio mm.	LP x HP	750 x 2000	

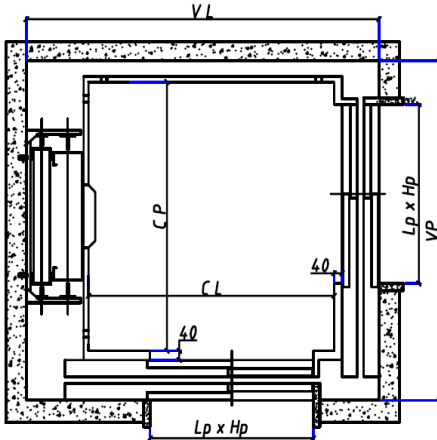


<i>Doppio Ingresso frontale con guide a lato</i>			
Interno Netto Vano mm.	VL x VP	1230 x 1330	
Interno Cabina mm.	CL x CP	800 x 1200	
Luce passaggio mm.	LP x HP	750 x 2000	



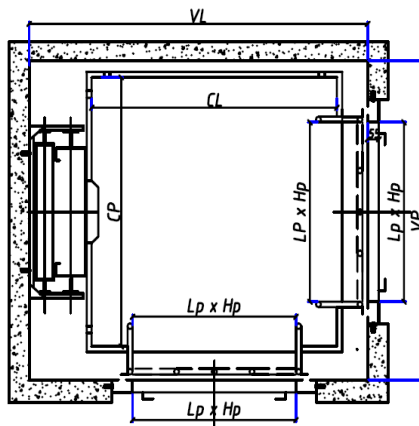
## Automatic - Luna

Doppio Ingresso laterale con guide a lato			
Interno Netto Vano mm.	VL x VP	1725 x 1515	
Interno Cabina mm.	CL x CP	1200 x 1200	
Luce passaggio mm.	LP x HP	800 x 2000	



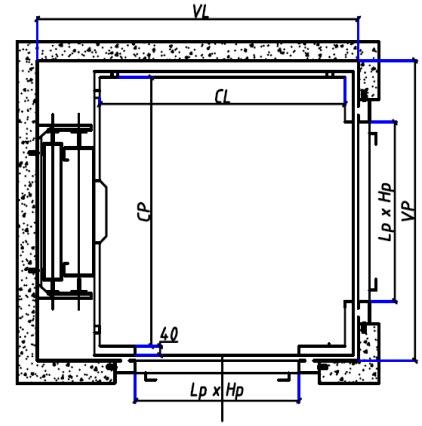
## Bellow - Stella

Doppio Ingresso laterale con guide a lato			
Interno Netto Vano mm.	VL x VP	1655 x 1425	
Interno Cabina mm.	CL x CP	1200 x 1200	
Luce passaggio mm.	LP x HP	800 x 2000	



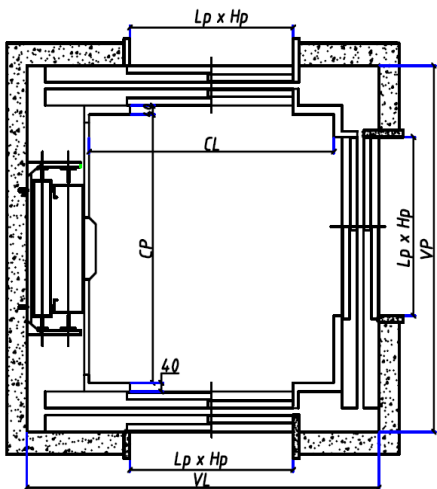
## Door less - Sole

Doppio Ingresso laterale con guide a lato			
Interno Netto Vano mm.	VL x VP	1570 x 1340	
Interno Cabina mm.	CL x CP	1200 x 1200	
Luce passaggio mm.	LP x HP	800 x 2000	



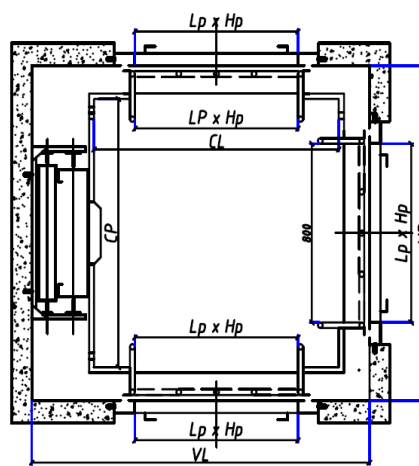
## Tripla Ingresso

Interno Netto Vano mm.	VL x VP	1725 x 1640
Interno Cabina mm.	CL x CP	1200 x 1200
Luce passaggio mm.	LP x HP	800 x 2000



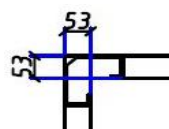
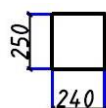
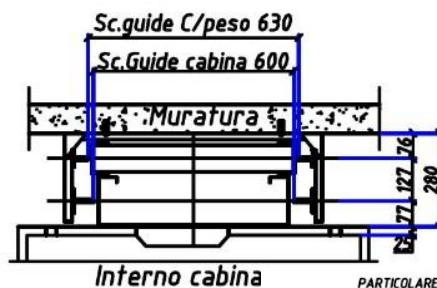
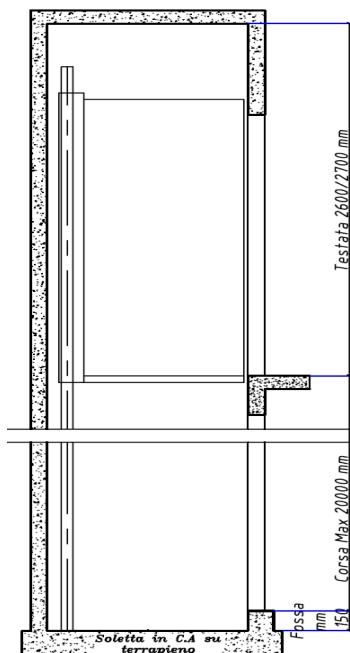
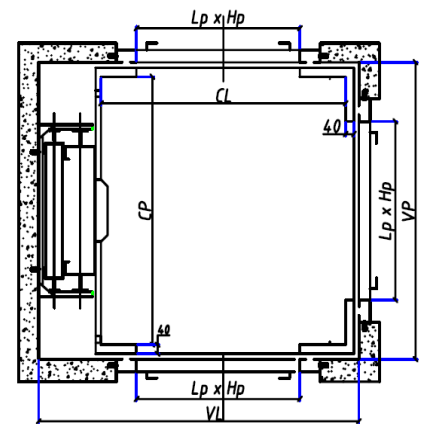
## Tripla Ingresso

Interno Netto Vano mm.	VL x VP	1655 x 1500
Interno Cabina mm.	CL x CP	1200 x 1200
Luce passaggio mm.	LP x HP	800 x 2000

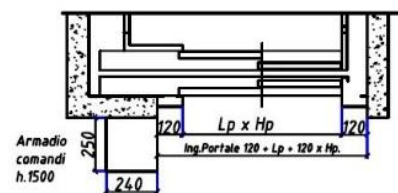
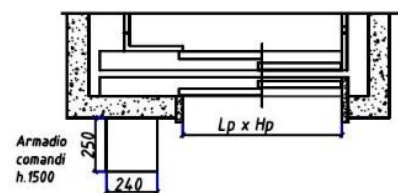
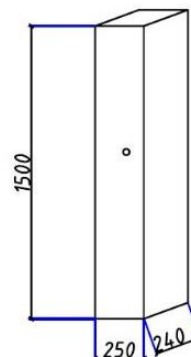


## Tripla Ingresso

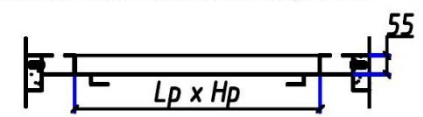
Interno Netto Vano mm.	VL x VP	1570 x 1330
Interno Cabina mm.	CL x CP	1200 x 1200
Luce passaggio mm.	LP x HP	800 x 2000



For metal framework compartment add mm.53 to the internal measurements



VERSIONE CON PORTALI MBB (Opzional)



Ingombro porte a battente mm.  
100 + LP + 100 x HP + 100

NOTE:



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