



ELFO T

Electric Traction Homelift



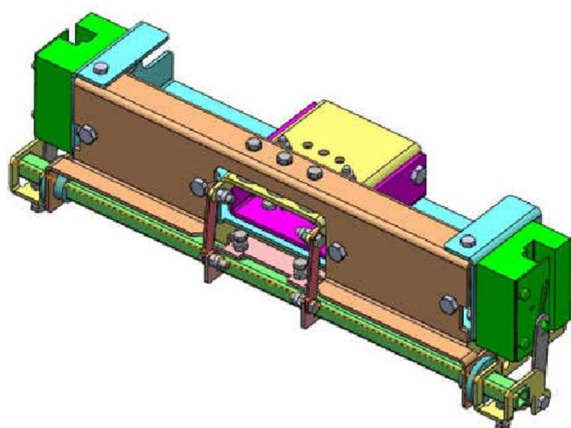
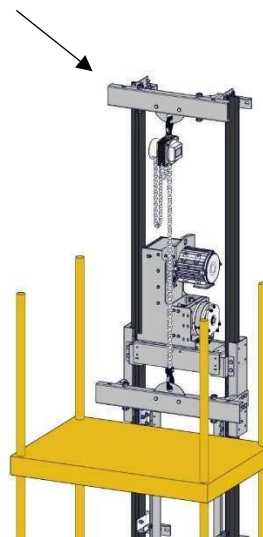
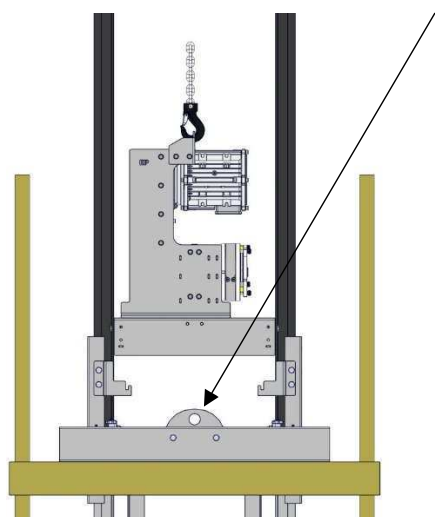
General specifications

| | |
|-----------------------------------|---|
| Normative | Machine directive 2006/42/CE - EN8141 |
| Certification body | Bureau Veritas |
| Power supply | 230 V monophase (+/- 5%) - 50/60 Hz |
| Starts per hour | 30 |
| Duty cycle | 33% |
| Loads | 300 - 400 kg |
| Accesses | Single – opposite/side – Triple |
| Speed | 0,15 m/s – (0,30 m/s no CE certification) |
| Travel (max) | 25 mt |
| N° stops (max) | 8 |
| N° services (max) | 8 |
| DBF (min) | 0,5 m (0.35m with no display) |
| Shaft | Masonry or structure |
| Control panel | EP eeprom motherboard, on top of the shaft, to be placed inside or outside the headroom (max 3.5 meters) |
| Emergency manoeuvre | In case of black-out, the cabin will rise or descend to the most convenient floor. UPS device is available (see note on UPS page 4) |
| Guide bracket fixing pitch | Variable - Max 1500 mm for masonry shaft Variable - Max 1250 mm for structure |
| Traction | 1:1 roped |
| Sling | Cantilever |

| Distance between floors (mm) | | |
|------------------------------|-----------------------|-------------------|
| | 2000 door opening (H) | |
| Swing door | Masonry | *2150 - **2300 |
| | Structure | 2220 |
| Sliding door | Masonry | 2350 |
| | Structure | 2410 |

(*) = door jambs lateral fixation; (**) = sill and lintel "L" brackets fixation

Traction unit lifting kit (for shaft with no lifting eye)



Safety gear for counterweight for installations on the slab (where underneath people have access)



Keypad to be connected at the homelift for the installation and maintenance operations.

The connector interface is available in order to use the one for the ELFO hydraulic.



UPS for emergency floor automatic arrival

In case of black-out the cabin will arrive at most convenient floor (considering the situation of unbalancing) and open the door.

Dimensions 405P x 205H x 145L mm

Emergency manoeuvre during black-out

With no UPS:

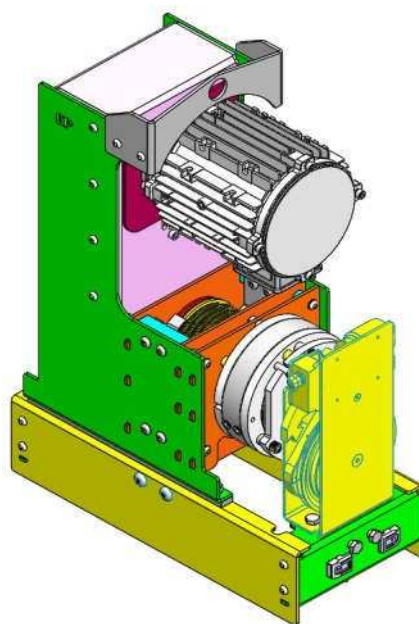
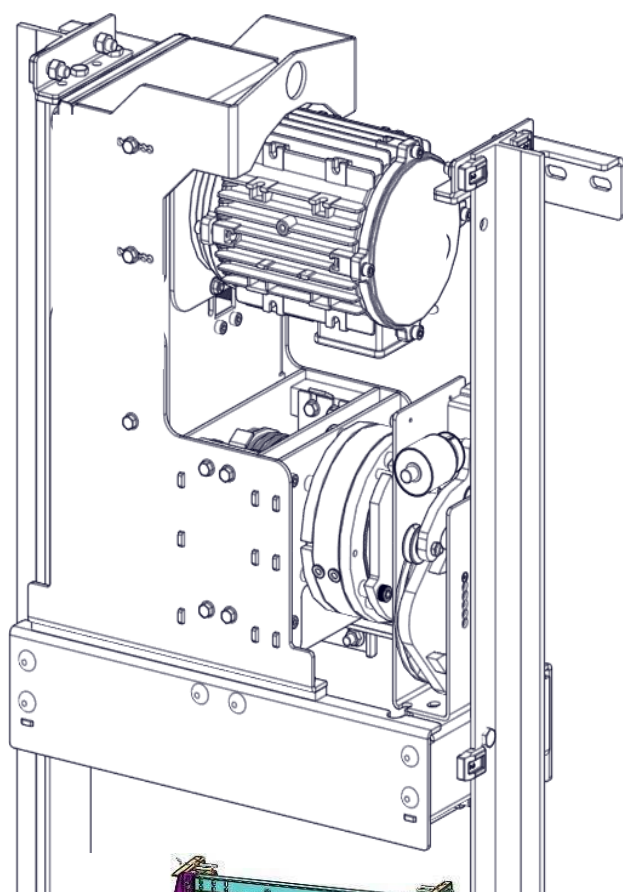
- Cabin lighting keeps working
- The push button of the lowest floor on COP will light on, the passenger has to push it and hold during all the manoeuvre
- The lift for unbalancing will go to the most convenient floor (up or down) opening the brakes of the motor (so a bump, then another, then another and so on), then will stop and the light of the lowest floor will light off.
- Arrived at the landing the “open-door” push button will light on, the passenger has to push it to have the door opened (if swing door just push the panel to exit).

With UPS

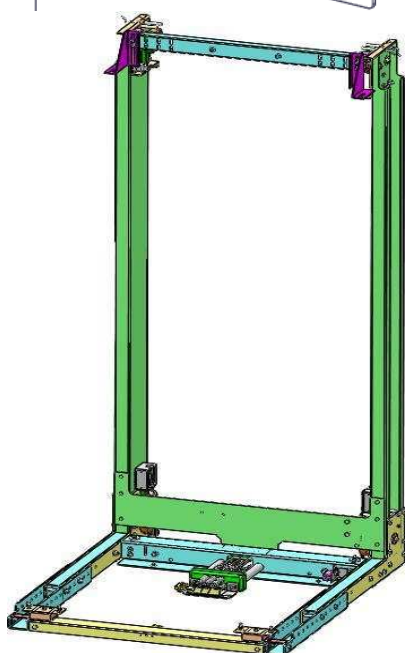
- Cabin lighting keeps working
- The push button of the lowest floor on COP will light on, the passenger has to push it once
- The lift for unbalancing will go to the most convenient floor (up or down) feeding the motor- Automatically, then the homelift will stop and the light of the lowest floor will light off.
- Arrived at the landing the “open-door” push button will light on, the passenger has to push it to have the door opened (if swing door just push the panel to exit).

Machine room

ELFO-T is machine roomless



The traction unit is installed between the guides

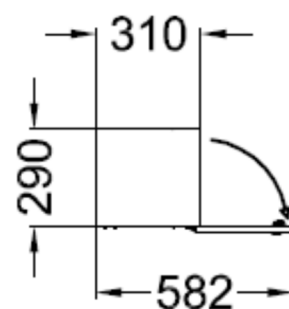
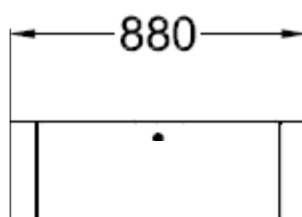
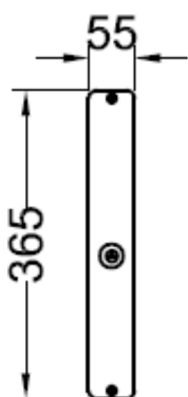
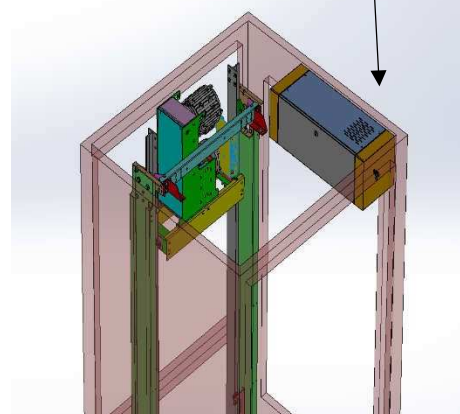
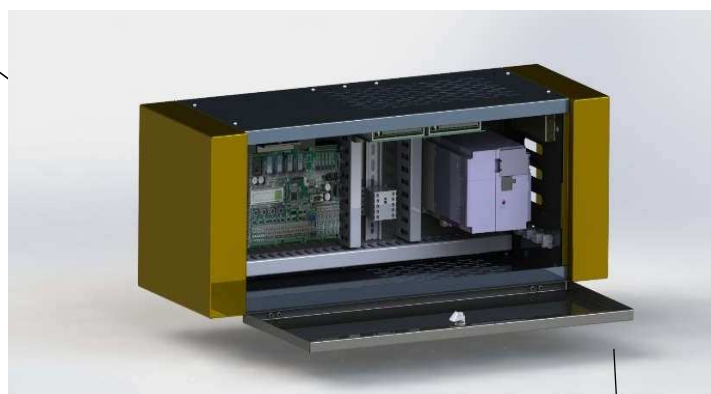
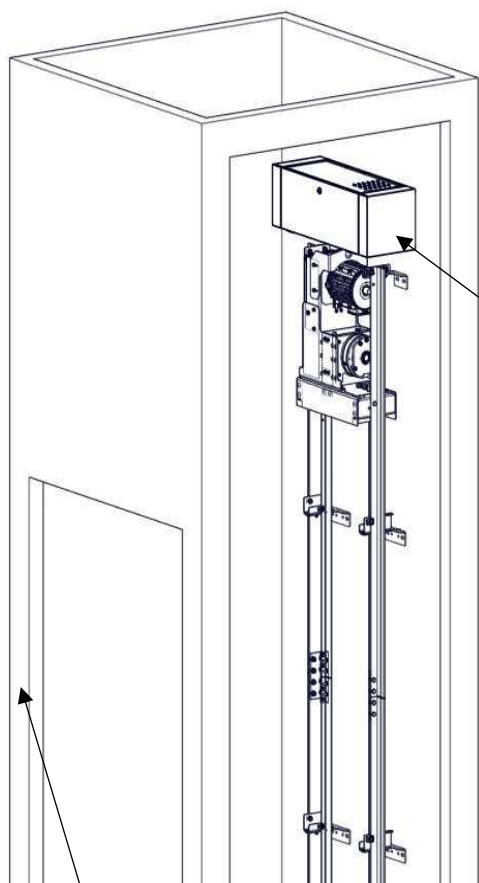


Cantilever sling with safety roping points
inspectionable from the bottom of the cabin.
Cabin wall removal is no longer required

Control panel and maintenance console

Technical cabinet

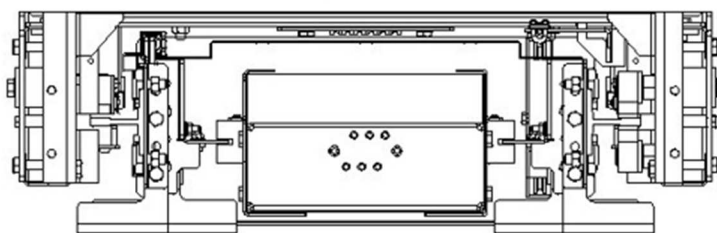
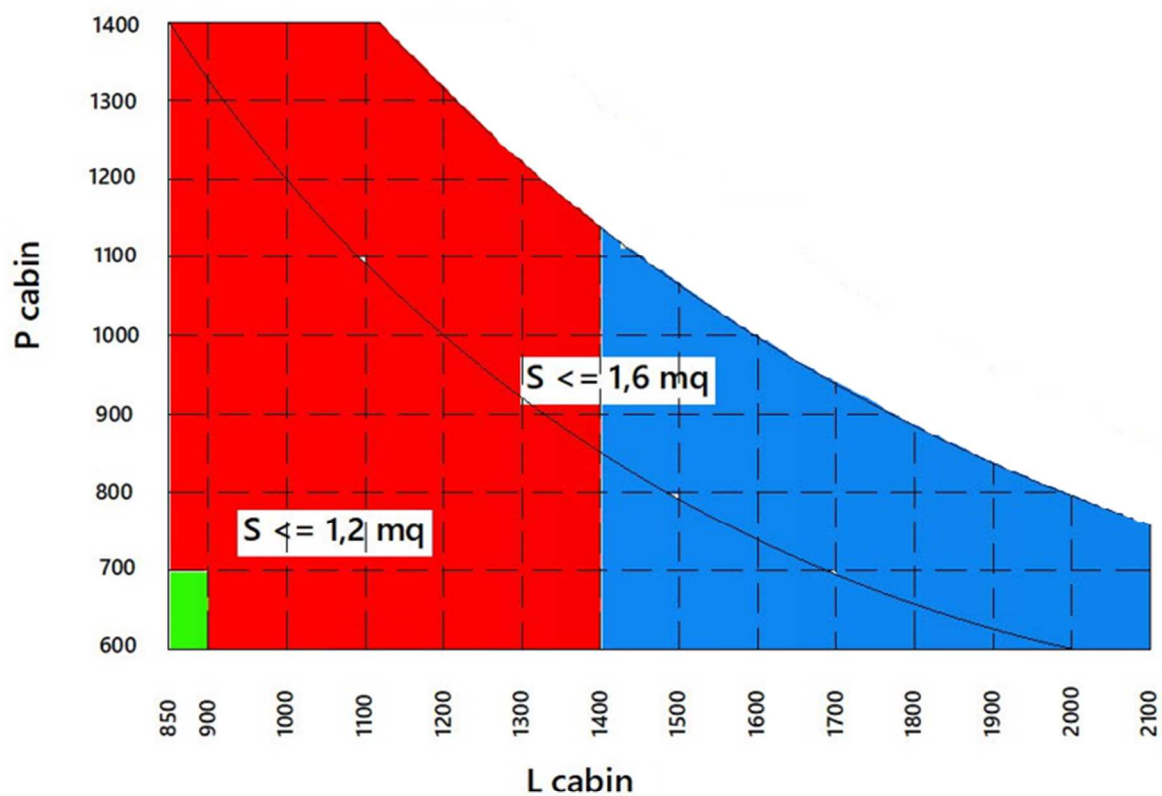
The technical cabinet in skinplate F12PPS has been designed to be installed inside the shaft in the headroom or in case of shallow headroom it can be placed outside the shaft (not suitable for outdoor exposed environment)



Maintenance console in the doorjamb at top floor or sink into the wall

Load diagram

ELFO-T is available in three rated loads 250 - 400, depending on the cabin surface (250 kg/mq), as per below diagram.



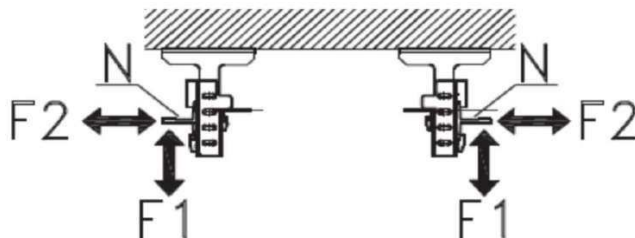
- To be checked by feasibility
- Min. pit 150 mm
- Min. pit 190 mm

| Cabin Area | Rated Load |
|---------------------|------------|
| $< 1,2 \text{ m}^2$ | 300 kg. |
| $< 1,6 \text{ m}^2$ | 400 kg. |

Pit reactions and guide's bracket reaction

| 800x1200mm | Normal run | In case safety gear intervention |
|------------|-------------|----------------------------------|
| 300 kg | N (N) 14900 | N (N) 24410 |
| | F1 (N) 1520 | F1 (N) 3120 |
| | F2 (N) 260 | F2 (N) 430 |

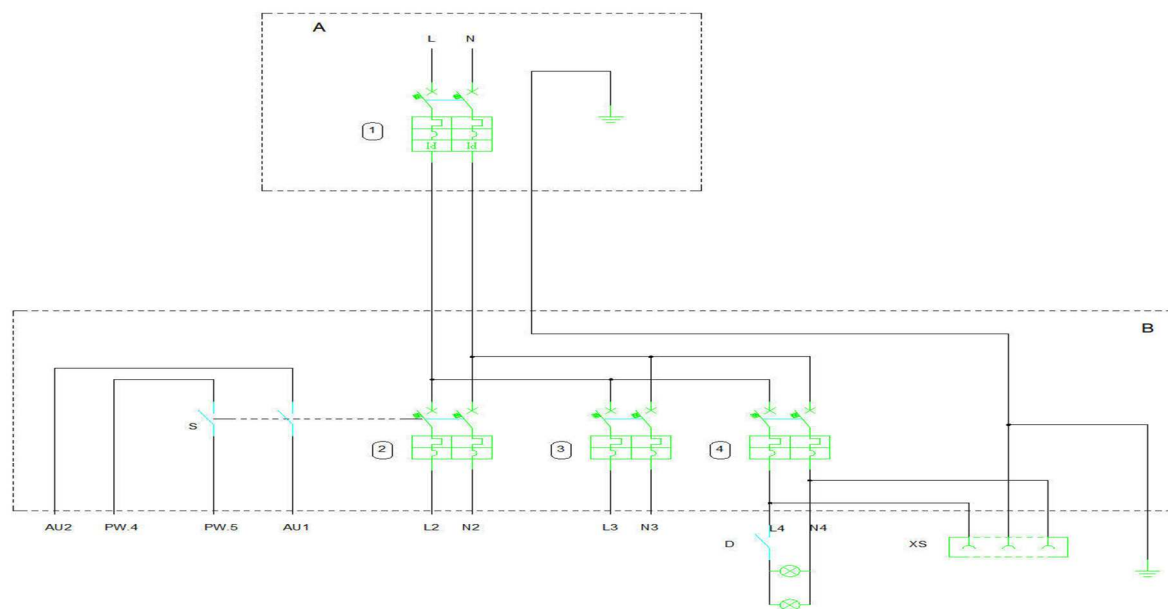
| 1100x1400mm | Normal run | In case safety gear intervention |
|-------------|-------------|----------------------------------|
| 400 kg | N (N) 15780 | N (N) 26380 |
| | F1 (N) 2240 | F1 (N) 4370 |
| | F2 (N) 400 | F2 (N) 670 |



Power supply

| Nominal electric power input | 300 kg | 400 kg |
|---|--------------|------------|
| Nominal input absorption 0.15m/s (0.30) | 5,0 A (7.5) | 5,5 A (9) |
| Rated power 0.15m/s (0.30) | 1.1 Kw (1.7) | 1,2 Kw (2) |

Electrical diagram



Keys:

A Breaker

B Power supply board

1 - Differential-Magnetothermal switch monophasic 2 x 25 A type B, idn 0.03-A**

2 - Differential-Magnetothermal switch monophasic power supply controlpanel 2 x 16 A

3 - Differential-Magnetothermal switch monophasic for potential power supply of the cabin (Lighting or door operator 2 X 16 A)

4 - Differential-Magnetothermal switch monophasic 2 x 10 A for potential shaftlighting and XS sockets**

XS - 2P+T 10 A - 230V sockets in the shaft **

D - Shaft lighting switch (in case it is provided)

S - Breaker auxiliary contacts of the control panel (2) to break the batteries and UPS (if provided).

** The size of the breaker has to be evaluated by the installer in function of any additional power absorption caused by eventual devices not provided by the supplier.



Pit and headroom dimension

Pit Depth:

in function of the cabin area/rated load 150 or 190mm (see the scheme at page 7)

NB: add 20mm for flooring by the customer (max 20mm, max 50Kg)

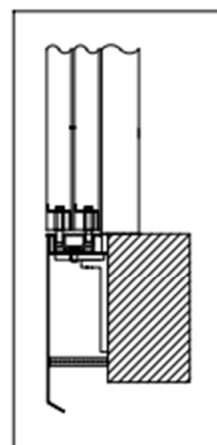
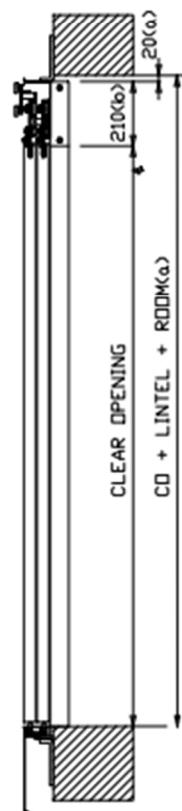
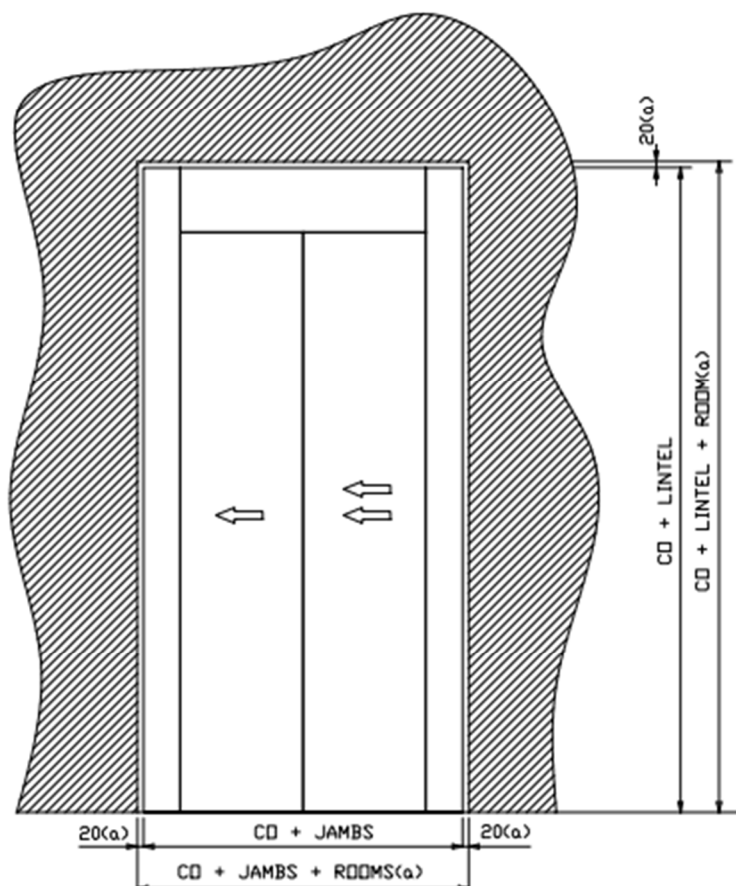
Headroom: (for cabin height 2100mm)

| | | |
|---|----|------|
| Cabinet outside the shaft – swing door + IR barrier | mm | 2350 |
| Cabinet outside the shaft – swing door + bus door | mm | 2450 |
| Cabinet outside the shaft – sliding door | mm | 2550 |
| Cabinet inside – masonry | mm | 2650 |
| Cabinet inside – structure | mm | 2730 |

Manoeuvre:

| | |
|--|-------------|
| L.O.P always | Automatic |
| C.O.P without cabin door (CE certification) | Hold to run |
| C.O.P without cabin door (no CE certification) | Automatic |
| C.O.P Cabin door | Automatic |

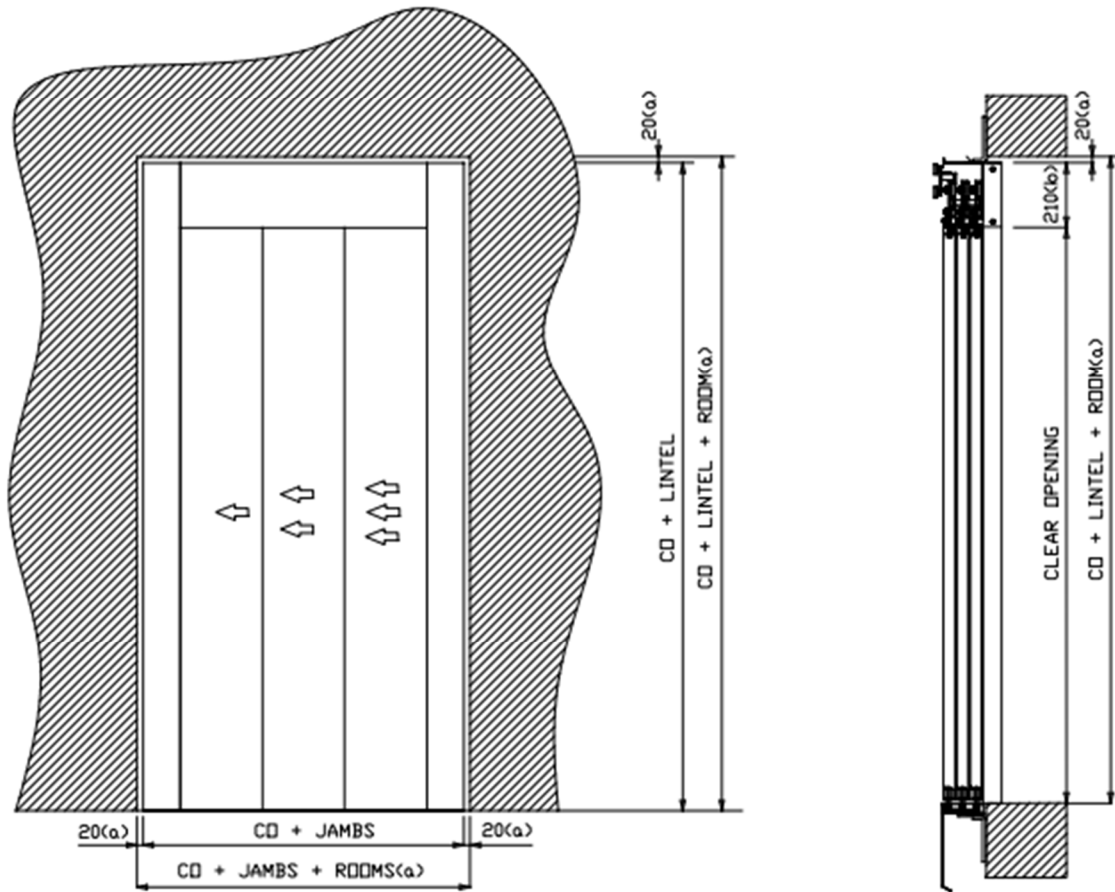
2 Panel sliding door



(a)= Rooms are 20mm, but could be less, refer to final drawing.

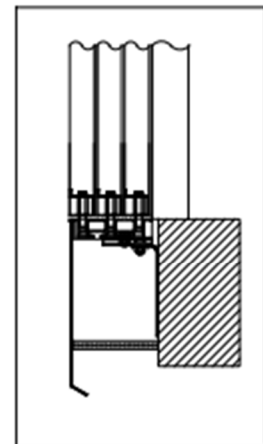
(b)= Lintel could be 210 or 100mm; please refer to final drawing.

3 Panel sliding door



(a) = Rooms are 20mm, but could be less, refer to final drawing.

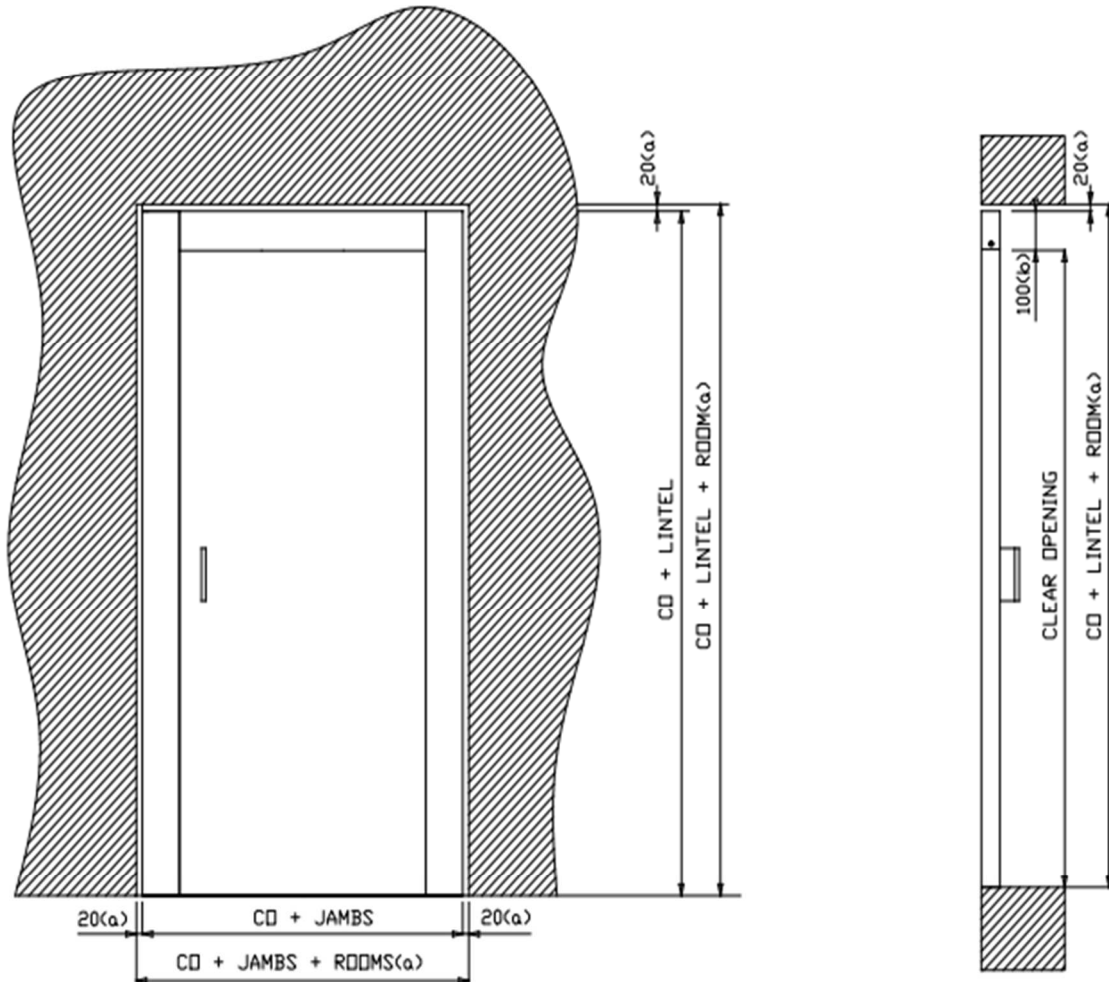
(b) = Lintel could be 210 or 100mm; please refer to final drawing.



The frame is
fixed by
dowels

Sliding doors.

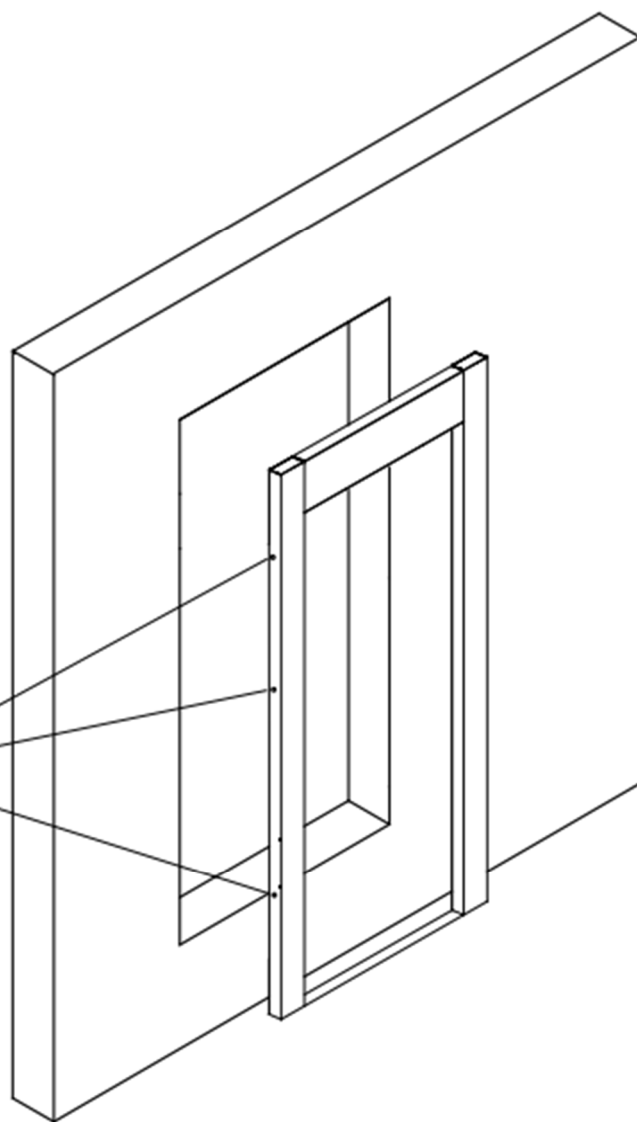
Swing door



(a)= Rooms are 20mm, but could be less, refer to final drawing.

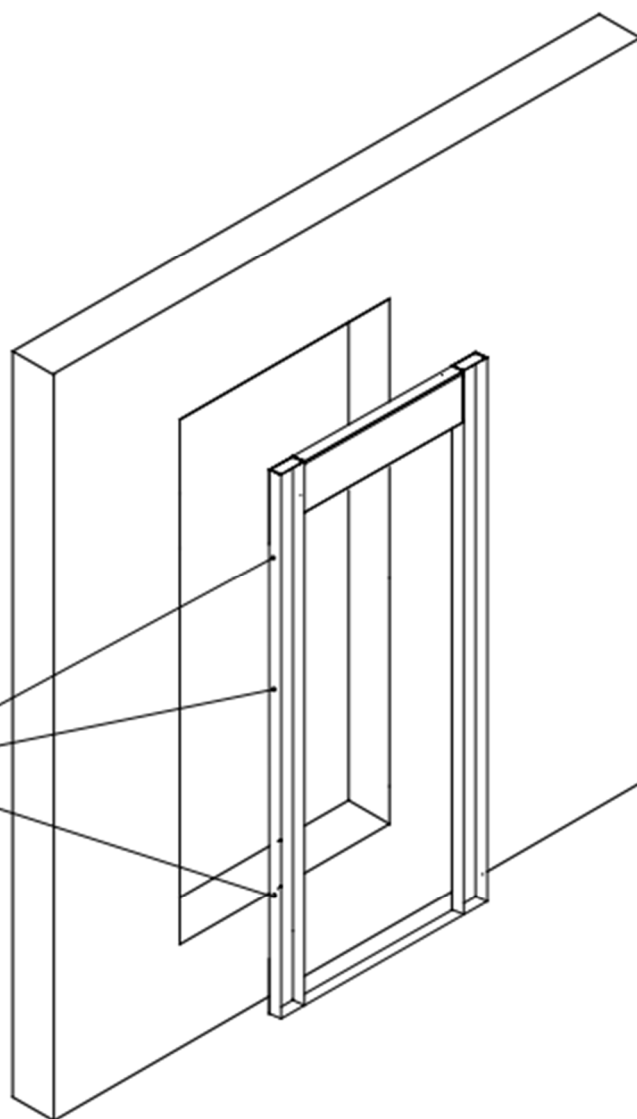
(b)= In case of FACE automatic door opener the lintel is 140mm

N°3 brackets per side, bolt
on the door jamb and fixed
by dowel in the back of the
reveal.



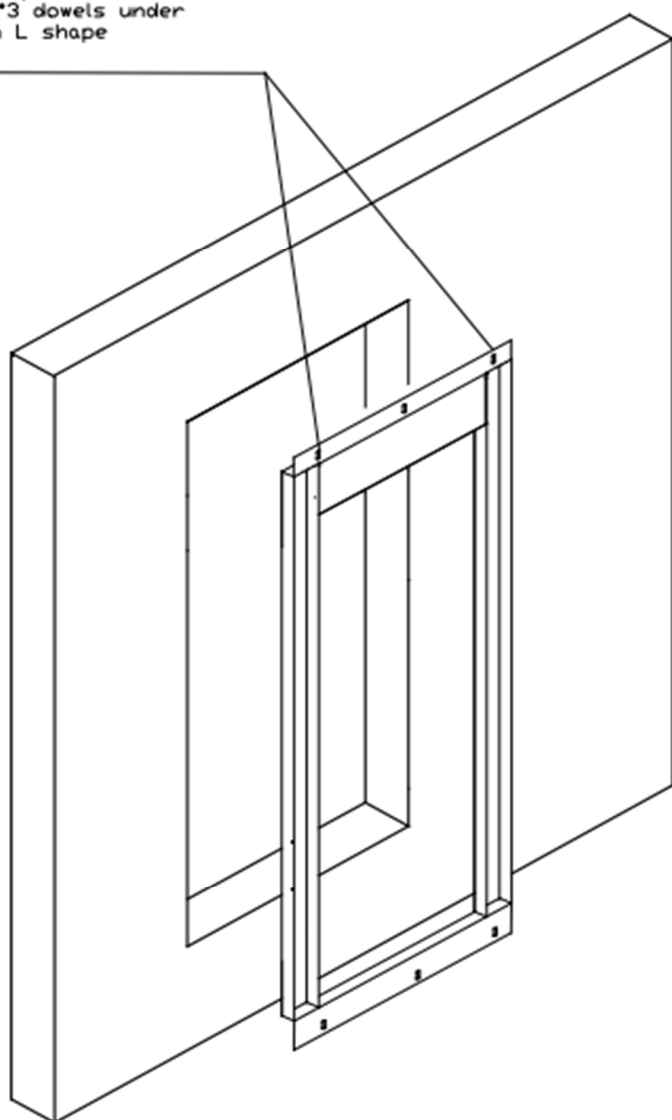
Aluminium and Fly

The frame is fixed by
dowels into the reveal
with 3 dowels for every
door jamb.



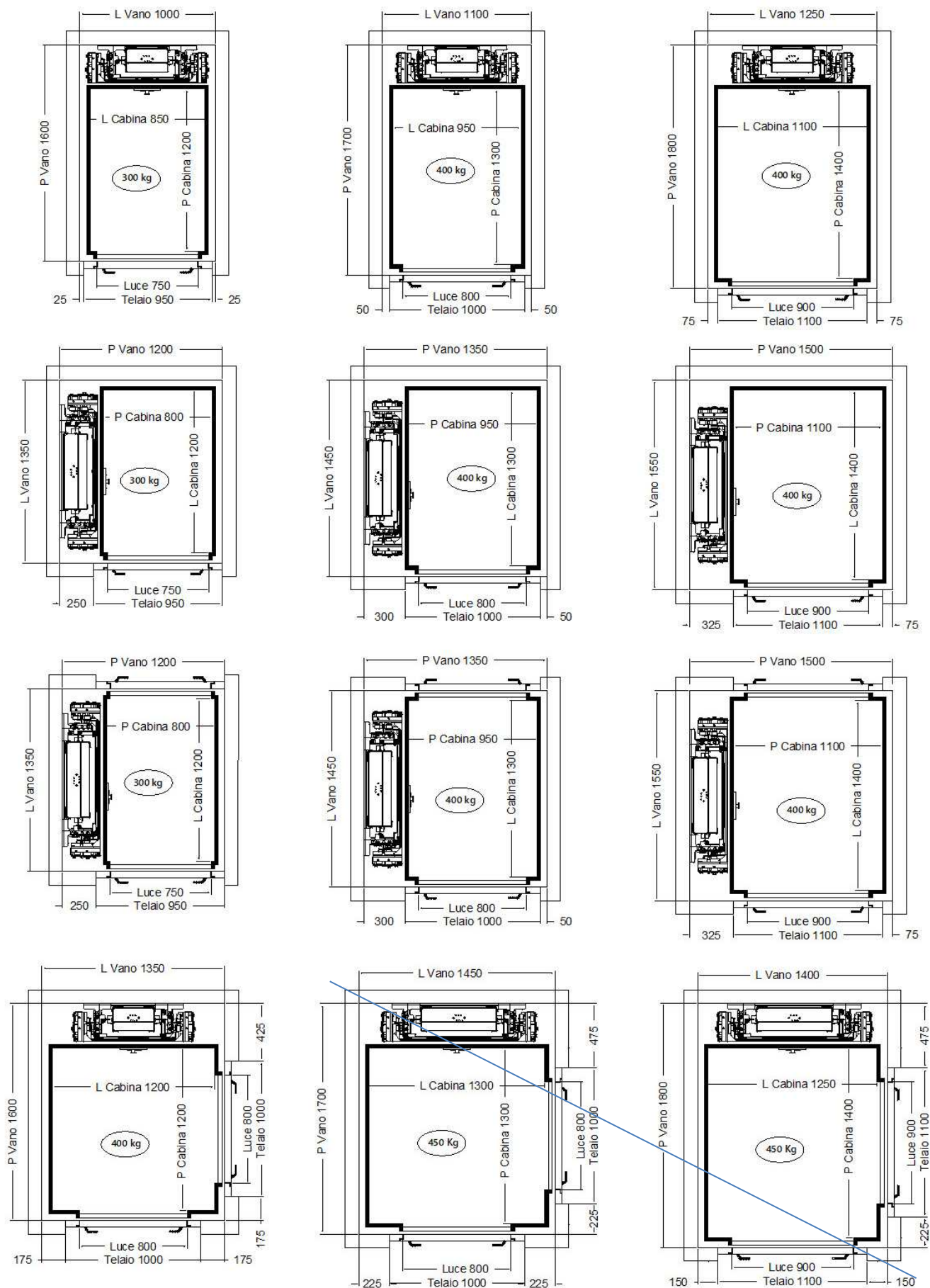
Mono C1 Iron doors
and Villa doors

N° 3 dowels upabove the
lintel and n°3 dowels under
the sill with L shape
brackets.



Any swing doors

Swing door – Masonry



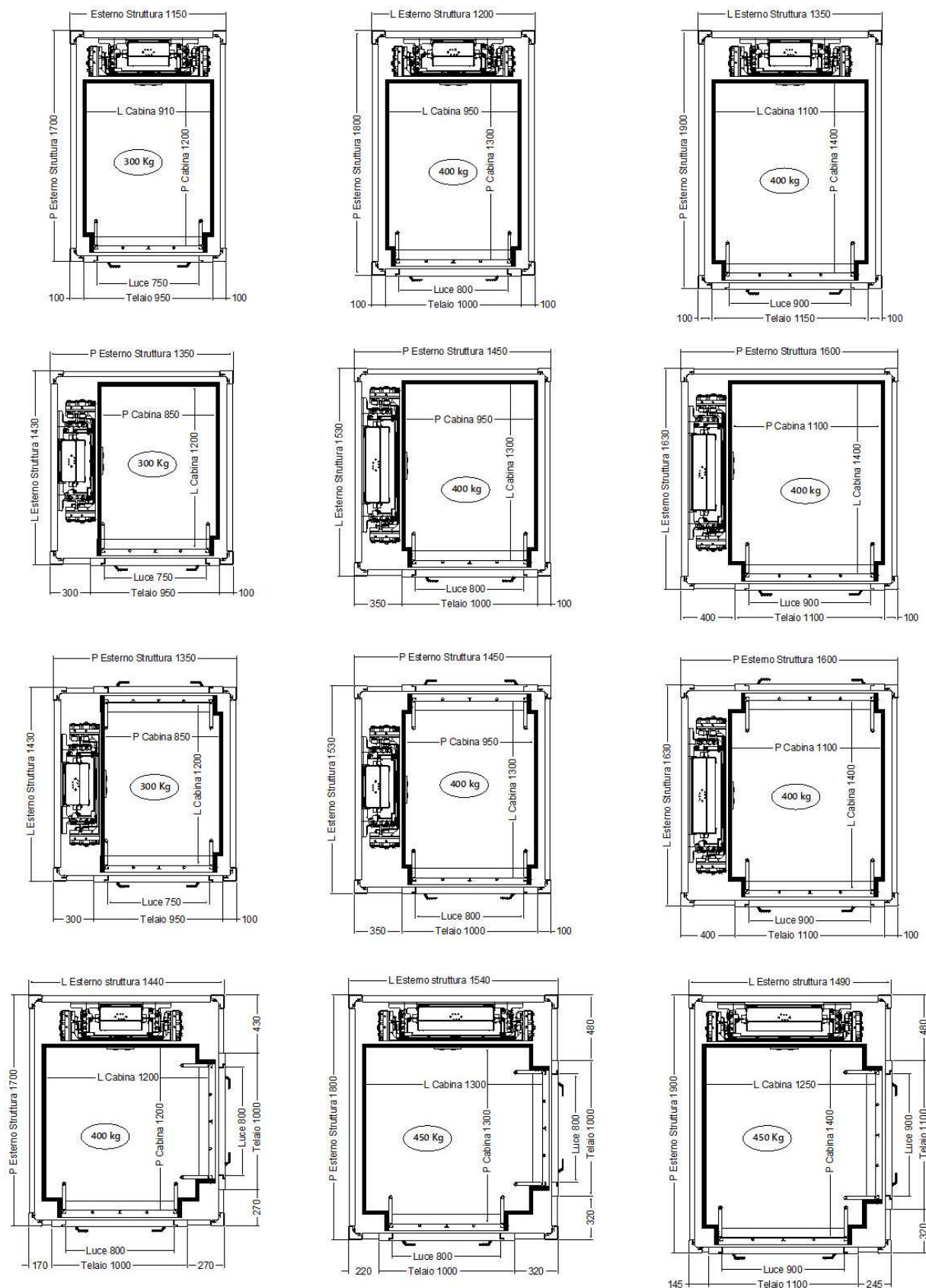
Swing door - Structure



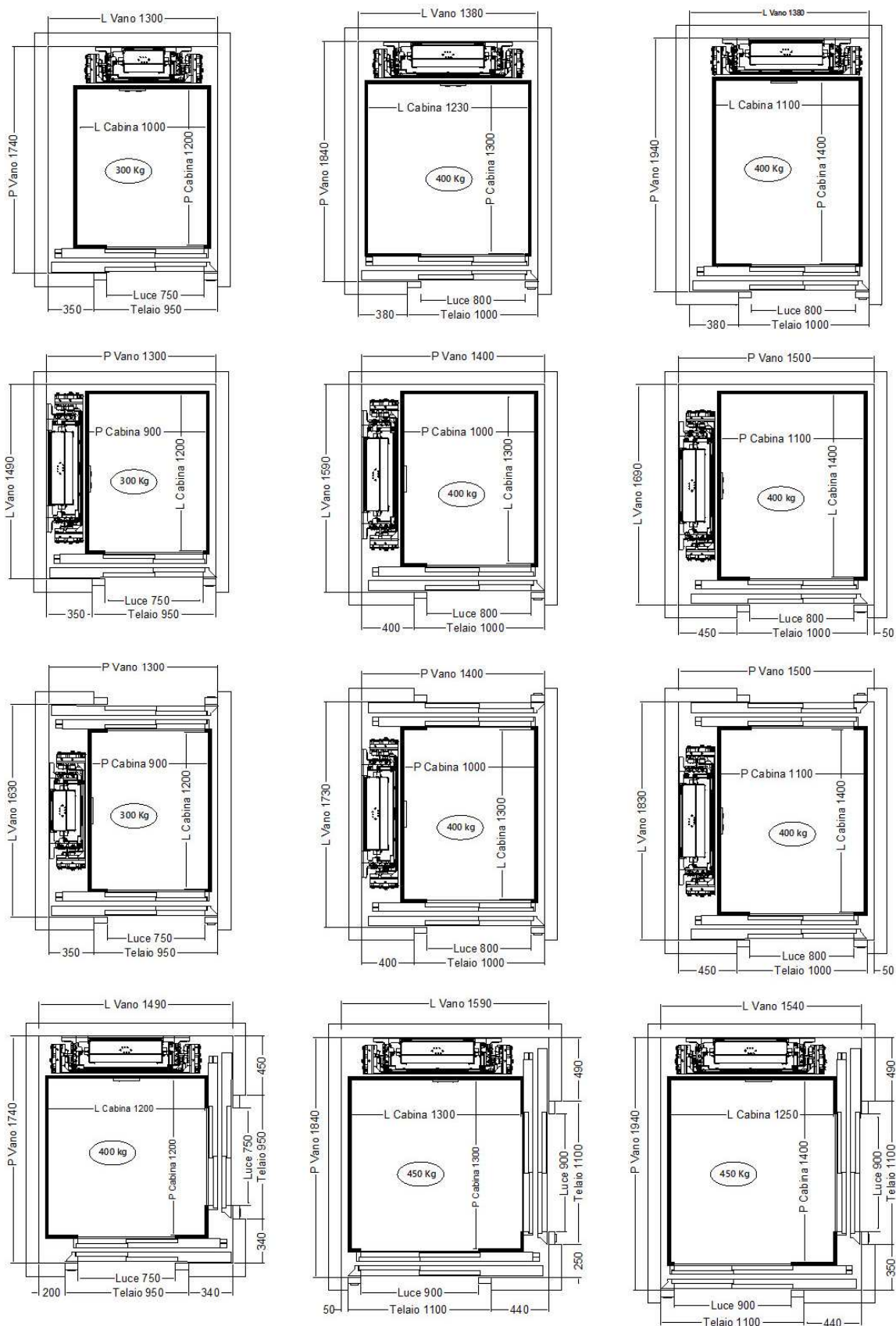
Swing door + bus door – Masonry



Swingdoor + folding door – Structure



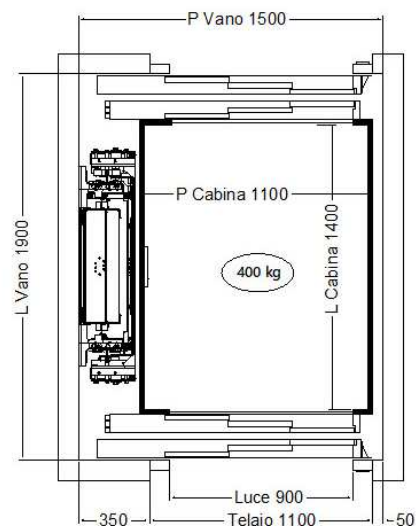
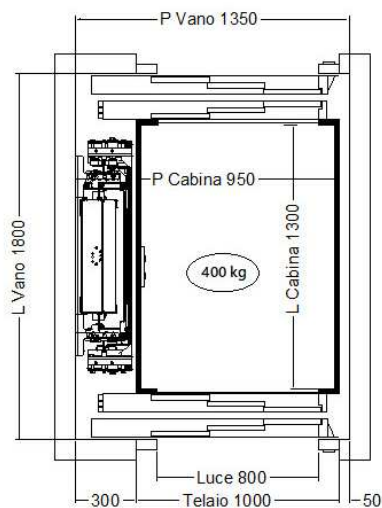
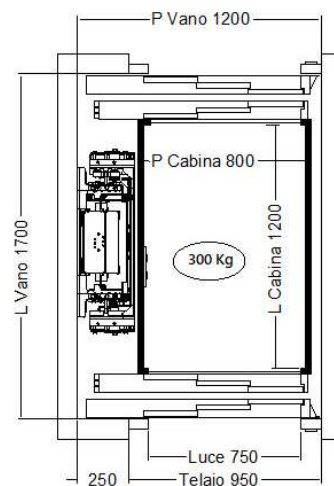
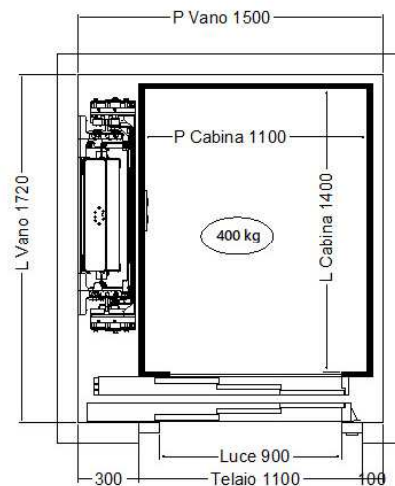
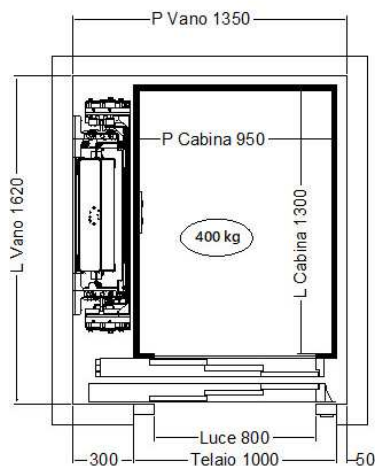
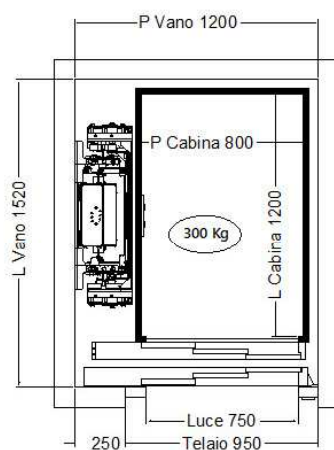
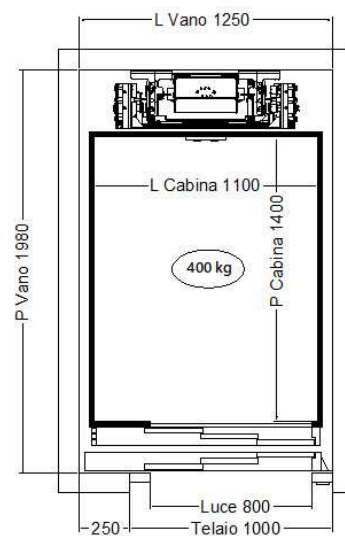
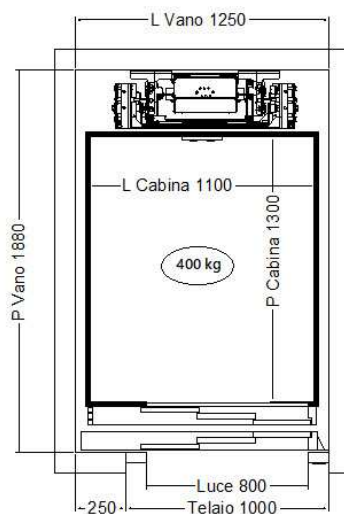
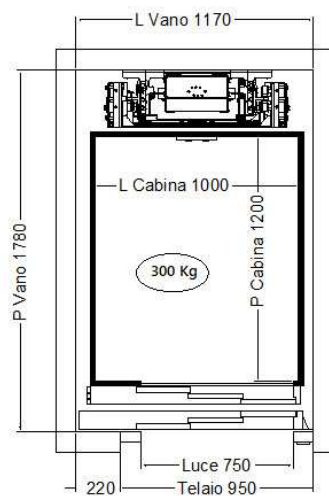
Sliding door 2 panels - Masonry



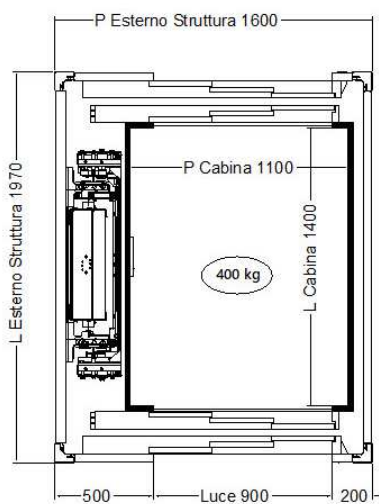
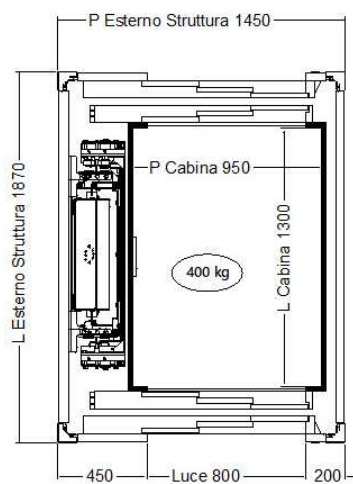
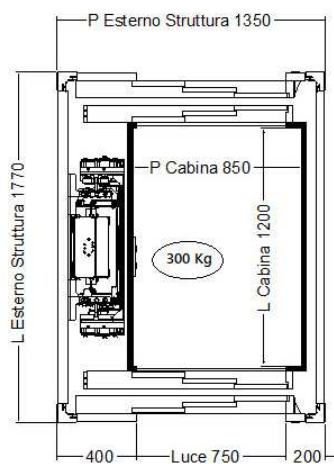
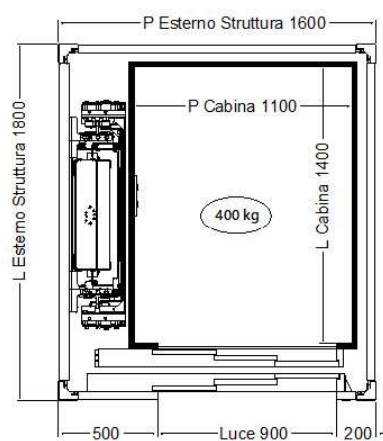
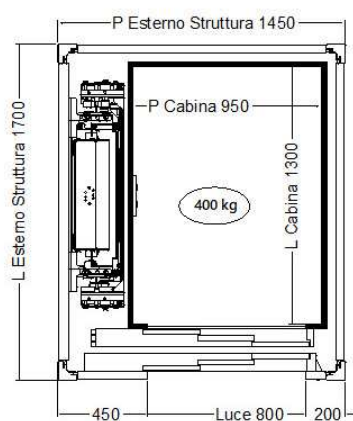
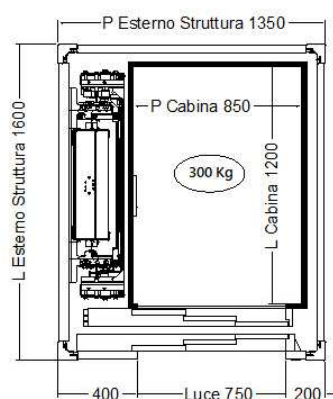
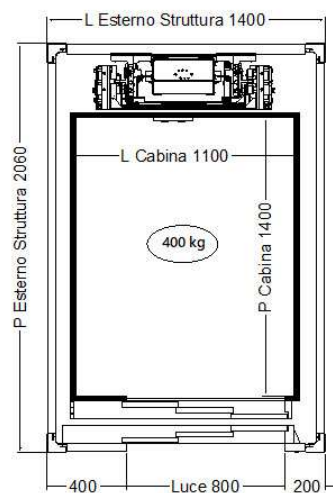
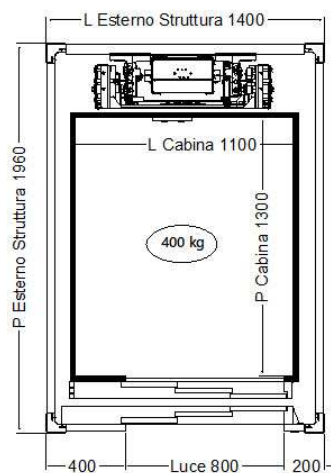
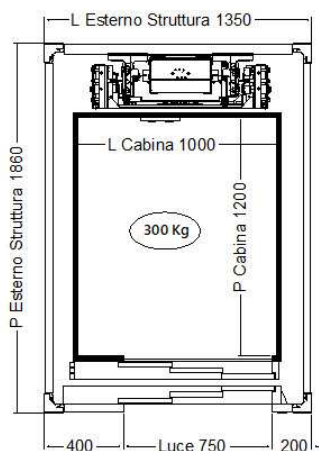
Sliding door 2 panels - Structure



Sliding door 3 panels - Masonry



Sliding door 3 panels – Structure





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