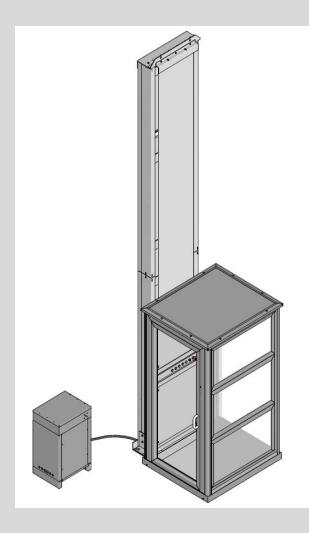
UN_934 Hydraulic Home Lift

Planning data



The UN_934 Home Lift is an innovative solution that elevates everyday living. It features a modern and customizable design, allowing homeowners to integrate it seamlessly into their living spaces. More than just a lift, it provides safe and effortless access to every level of your house, ensuring independence, comfort, and peace of mind.

Contact us

Unique Industry – Manthos Lift Solutions Industrial Area of Larissa, Larissa, 41500, Greece

Phone: (+30) 2410-541558 Email: <u>info@uniqueindustry.gr</u> sales@uniqueindustry.gr

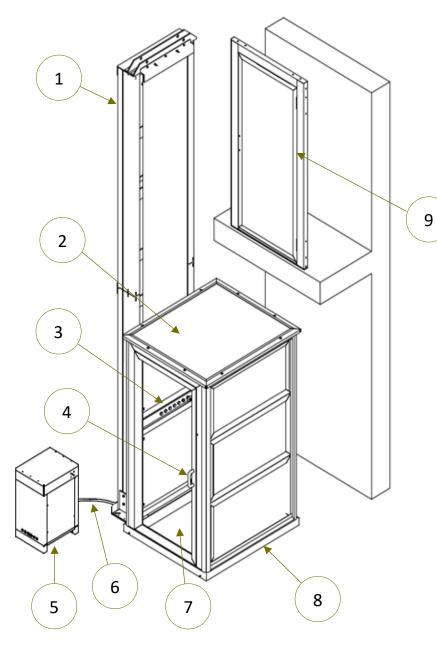
Web: www.uniqueindustry.gr



CONTENTS

1. Product Description3	10.3.2 Aluminium protective frames on 3 sides – "Π" shape	20
2. Benefits4	10.4 Access - Ramp	21
3. Safety4	11. Detailed Drawings	22
4. Technical Description5	11.1 Cabin type A Entrance – Exit: Opposite sides	22
5. Cabin Description6	11.2 Cabin type A Entrance – Exit: Same side	23
5.2.1 Cabin types6	11.3 Cabin type A Entrance – Exit: Adjacent sides 90°	24
5.2.2 Cabin standard equipment6	11.4 Cabin type A Entrance – Exit: Adjacent sides 90°	
5.2.3 Color of the lift6	11.5 Cabin type B Entrance – Exit: Opposite sides	
5.2.4 Cabin and cabin door lining6	11.6 Cabin type B Entrance – Exit: Same side	
5.2.5 Controls7	11.7 Cabin type B Entrance – Exit: Adjacent sides 90°	
5.2.7 Closed cabin with double-leaf door (Optional)7	11.8 Cabin type B Entrance – Exit: Adjacent sides 90°	
5.2.6 Cabin doors7	· · · · · · · · · · · · · · · · · · ·	
5.2.8 Cabin dimensions8	11.9 Cabin type C Entrance – Exit: Opposite sides	
6. Column9	11.10 Cabin type C Entrance – Exit: Same side	
6.1 Column division (parts) per total travel9	11.11 Cabin type C Entrance – Exit: Adjacent sides 90°	
6.2 Column Support	11.12 Cabin type C Entrance – Exit: Adjacent sides 90°	
6.2.1 Standard Column Support – Wall support10	11.13 Cabin type D Entrance – Exit: Opposite sides	
6.2.2 Optional Column Support – Triangle support11	11.14 Cabin type D Entrance – Exit: Same side	35
7. Control Panel & Hydraulic Unit	11.15 Cabin type D Entrance – Exit: Adjacent sides 90°	36
8. Cabinet for the Control Panel & Hydraulic Unit13	11.16 Cabin type D Entrance – Exit: Adjacent sides 90°	
9. Forces	12. 3d Visualisation	38
9.1 Forces at the pit base14	12.1 Closed cabin	38
9.2 Forces on the shaft wall15	12.1.1 Entrance – Exit: Opposite sides, 2 stops	38
10. Optional Equipment	12.1.2 Entrance – Exit: Opposite sides, 3 stops	39
10.1 Level Doors	12.1.3 Entrance – Exit: Same sides, 2 stops	40
10.1.1 Description & available options16	12.1.4 Entrance – Exit: Same side, 3 stops	4
10.1.2 Door height 1100mm17	12.1.5 Entrance – Exit: Adjacent sides 90°, 2 stops	42
10.1.3 Door height 2000mm	12.2 Open Cabin	
10.2 Aluminium protective barrier & level doors	12.2.1 Entrance – Exit: Opposite sides, 2 stops	
10.3 Aluminium protective frames on lower landing20	12.2.2 Entrance – Exit: Same side, 2 stops	
10.3.1 Aluminium protective frames on 2 sides – "Γ" shape20	12.2.3 Entrance – Exit: Adjacent sides 90°, 2 stops	
10.0.1 / Hammitain protective traines on 2 stacs 1 shape20	12.2.5 Entrance Ext. Adjuctit sides 50 , 2 stops	т.

1. PRODUCT DESCRIPTION



Information

- **1. Aluminium Column:** Lightweight and durable construction for easy installation.
- **2.** Closed Cabin with Roof Clear Height 2000mm: C Constructed from durable aluminum profiles, it features a protective roof with integrated LED lighting, while the side facing the lifting mechanism is fitted with blind panels.
- **3.** Cabin Operation Panel (COP): Ergonomically designed with clearly marked push-buttons for Up and Down, Emergency Stop, and a built-in alarm for added safety in emergencies.
- **4. Cabin Door Height 2000mm:** Full-height swing door for access at the bottom level. The door can be left or right hinged.
- **5. Cabinet:** It includes the hydraulic unit along with the control panel.
- **6. Rubber Hose:** Flexible tubing used to transport hydraulic fluid within the system.
- **7. Cabin Floor**: Anti-slip surface made of corrosion-resistant aluminum, ensuring safety and minimal wear over time.
- **8. Anti-crushing protective surface:** It is integrated under platform floor. Prevents entrapment by stopping the lift if an obstacle is detected underneath
- **9. Level Door:** It is installed at the upper stop to prevent accidental entry into the lift area when the platform is not at that level. The door is available in two height options: 1100 mm or 2000 mm.

2. BENEFITS

Our revolutionary "UN_934" provides access to all levels of your home and requires a minimum intervention in the existing building.

The installation of this lift does not require a shaft and it can be mounted directly to the building.

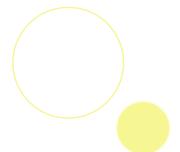
A minimal pit is needed.

It is suitable for both outdoor and indoor installations.

The installation procedure is easy and typically requires two to three days, ensuring a satisfied customer.

List of main advantages

- → Small pit requirement
- → Space efficient lift solution
- → Suitable for both outdoor and indoor installations
- → Fast installation in 2 to 3 days



3. SAFETY

SAFETY IS OUR MAIN PRIORITY AND CORE VALUE

We have taken the proper measures to ensure the safety of the passengers in any given situation. That is why this lift model is equipped with safety gear in case the chain breaks. The entire system is supported by electromechanical locks and an anti-crushing protective surface is integrated under platform floor

We offer a 2-year standard warranty that can be optionally extended as per request from our customers.

Safety features

- → Safety gear (in case the chain breaks)
- → Emergency restraining device
- → Terminal switches 24V
- → Terminal stop switches 24V
- → Electromechanical locks
- → Anti-crushing protective surface integrated under platform floor
- → Emergency STOP buttons
- → Electronic engine control PCB
- → Battery operated evacuation system
- → Hydraulic overload protection
- → Safety valve at the bottom of the cylinder Automatically stops the system in case of a broken hydraulic hose or tube.

4. TECHNICAL DESCRIPTION

General information

Loading capacity: Max 420kg (Depending on the size of the cabin & lining materials)

Max no of stops: 4 (5 stops, upon request)
Standard Platform Sizes: Type A, B, C and D

The lift is available in 4 standard sizes to suit different space needs.

Platform Clear Dimensions:

Type A: 820 x 1215 mm, Type B: 1020 x 1215 mm Type C: 1120 x 1485 mm, Type D: 1120 x 1605 mm

Total Machine Dimensions:

Type A: 1246 x 1300 mm, Type B: 1446 x 1300 mm Type C: 1546 x 1570 mm, Type D: 1546 x 1690 mm

Power Supply: 1.5kW, 220V (1-phase)

Current Operation: 16A

Main Required Fuse: 1 x fuse 16 A (slow) or circuit breaker 1 x 16 A (trigger characteristic K or C)

Maximum lifting height: 12000mm

Open cabin: 0 – 4m
 Closed cabin: 0 – 12m
 Speed: 0.12 – 0.14m/sec
 Access height: 150mm

Headroom: 2100mm

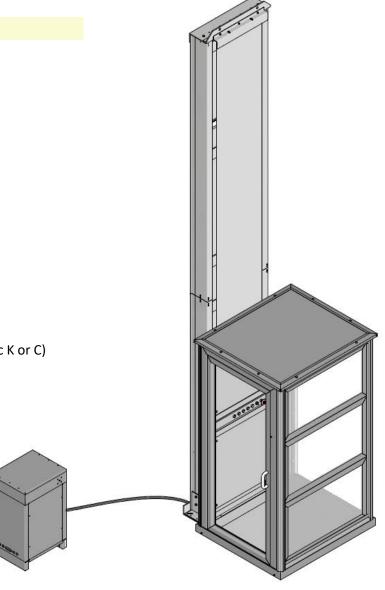
Motor: 1,5kW

Metallic chain: 2X3/4' DW 8187 12B

Door configuration: Single access, open-through, 90° opening

Directives and standards: Machine Directive 2006/42/EC

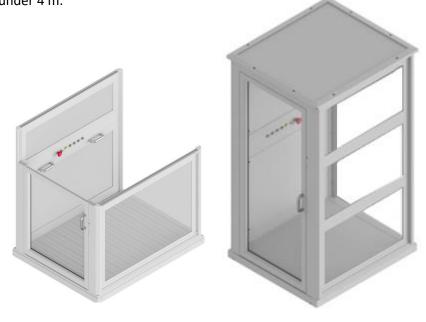
Examination Certificate for compliance with European safety standards



5. CABIN DESCRIPTION

5.2.1 Cabin types

The lift is available with two cabin configurations: a closed cabin with a height of 2000 mm and a roof for full enclosure, or an optional open cabin with a height of 1100 mm, recommended for travel distances under 4 m.



5.2.2 Cabin standard equipment

- → The main frame of the cabin is made of aluminum profiles.
- → Aluminium anti slip surface is also fitted on the cabin floor.
- Handrail with integrated COP.
- The side of the cabin facing the building is equipped with photocells.
 - As an alternative option, it can be fitted with a double-leaf manual door that opens inward.
- → Anti-crushing protective surface integrated under platform floor.

5.2.3 Color of the lift

The standard color of the lift is: RAL 7040 NEOKEM AMMOS

https://neokem.eu/en/ammos-collection-details/







! Important Note

The cabin floor features a premium anodized finish, offering durability, a sleek appearance, and protection against wear.

5.2.4 Cabin and cabin door lining

The cabin and the cabin doors can be lined with either:

- → Polycarbonate
- → Triplex glass

! Important Note

The side that faces the mechanism is lined with blind panels as standard.



5.2.5 Controls

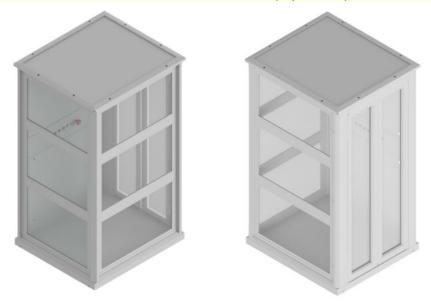
- → LOP at the entrance with continuous pressure call button mounted on the wall.
- → The COP inside the cabin includes floor buttons, key switch, alarm button and emergency stop.

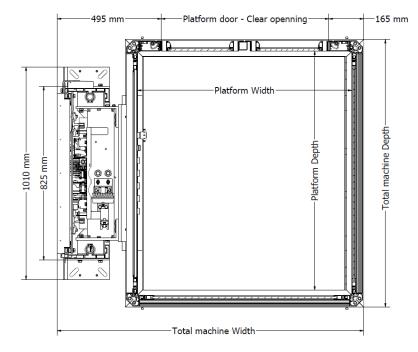


5.2.6 Cabin doors

- → Single door with left or right hinged according to your needs.
- \rightarrow Standard operation is semi-automatic.
- → Optional double-leaf manual door that opens inward, in the case of the closed cabin.
- → Lining according to your desire.

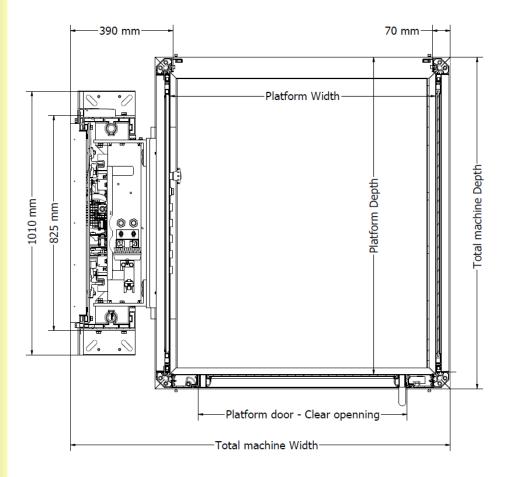
5.2.7 Closed cabin with double-leaf door (Optional)





5.2.8 Cabin dimensions

There are 4 types of standard dimensions.



	Platform dimensions		Total Machine Dimensions		Door opening
Туре	Width	Depth**	Width	Depth	Width
Α	820	1215	1246	1300	600
В	1020	1215	1446	1300	800
С	1120	1485	1546	1570	900
D	1120	1605	1546	1690	900

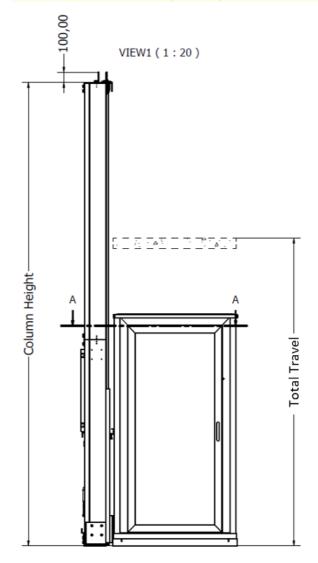
^{*}All dimensions are given in millimeters (mm).

^{**}If the cabin is equipped with a double-leaf door, the platform depth is reduced by 50 mm.

6. COLUMN

The column consists of two vertical aluminum pillars and separate sections that are placed on top of each other. The first section, which is positioned on the ground, is different from the rest both in length and in structure. The chassis moves smoothly over special plastic sliders, while the front and back sides of the column are covered with blind sheets.

6.1 Column division (parts) per total travel



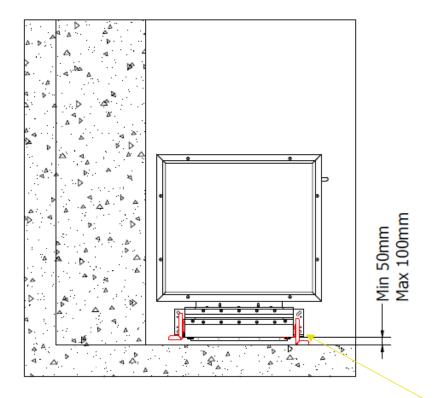
Total Travel	Column Height	Part 1	Part 2	Part 3	Part 4	Part 5	Part 6
420	2000	2000					
920	2500	2500					
1420	3000	2000	1000				
1920	3500	2500	1000				
2420	4000	2000	2000				
2920	4500	2000	2500				
3420	5000	2500	2500				
3920	5500	2000	2500	1000			
4420	6000	2000	2000	2000			
4920	6500	2000	2500	2000			
5420	7000	2000	2500	2500			
5920	7500	2500	2500	2500			
6420	8000	2000	2000	2000	2000		
6920	8500	2000	2500	2000	2000		
7420	9000	2000	2500	2500	2000		
7920	9500	2000	2500	2500	2500		
8420	10000	2500	2500	2500	2500		
8920	10500	2000	2500	2000	2000	2000	
9420	11000	2000	2500	2500	2000	2000	
9920	11500	2000	2500	2500	2500	2000	
10420	12000	2000	2500	2500	2500	2500	
10920	12500	2500	2500	2500	2500	2500	
11420	13000	2000	2500	2500	2000	2000	2000
11920	13500	2000	2500	2500	2500	2000	2000
12420	14000	2000	2500	2500	2500	2500	2000

^{*}All dimensions are given in millimeters (mm).

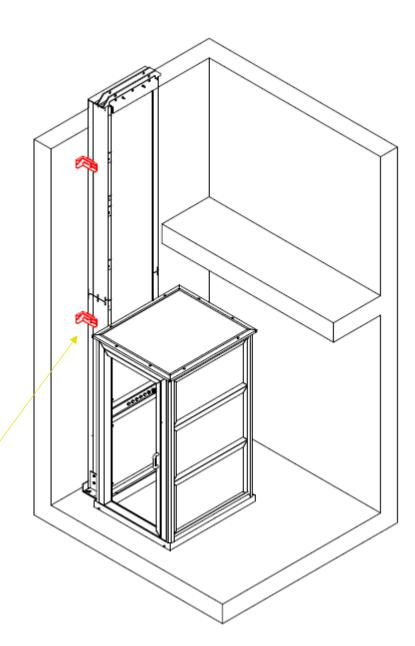
6.2 Column Support

Depending on the installation, the column can either be mounted directly on a wall or in the absence of a wall, supported by a triangular structure.

6.2.1 Standard Column Support – Wall support

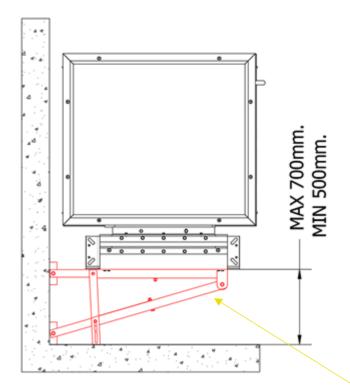


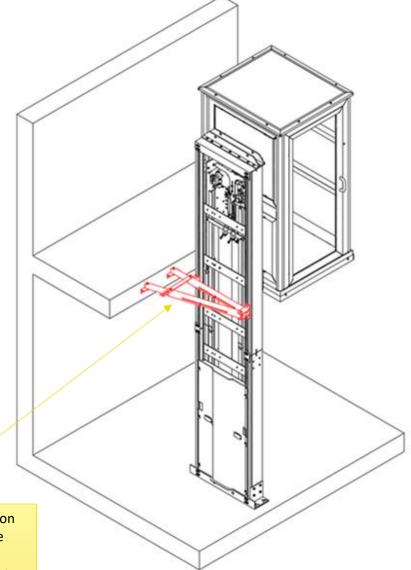
Angle support directly on the wall. It can cover differences between 50 to 100mm.



6.2.2 Optional Column Support - Triangle support

As mentioned earlier, if no wall is available behind the column, we offer the option of triangular support that can be mounted at each stop of the lift, such as on balconies.





Triangle support on the wall. It can be expanded or retracted between 500 to 700mm.

7. CONTROL PANEL & HYDRAULIC UNIT

The control panel and the hydraulic unit are installed into a cabinet

Function: Manages the operation of the hydraulic system for precise and efficient control.

Control Panel

- → Function: Includes a variety of electrical and electronic components that work together to operate, monitor, and protect the system.
- → **Components**: It mainly includes main board, power supply, switches, relays, led lights for monitoring and push buttons.

Hydraulic unit

- → **Function**: Its main function is to generate, control, and supply hydraulic energy to drive the system.
- Components: It mainly consists of a motor, pump, tank, valves and filter that work together to generate and deliver hydraulic power.
- → **Control**: Adjusts pressure, flow rate, and direction of the fluid as needed.
- → **Benefits**: Improves system safety, ensures reliable and highperformance operation, and enables smooth, energy-efficient control of hydraulic processes.

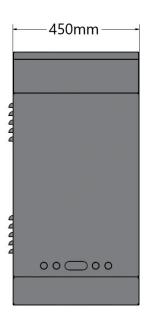
The oil tank has a capacity of 30L and the max pressure is up to 80 -120 bar.

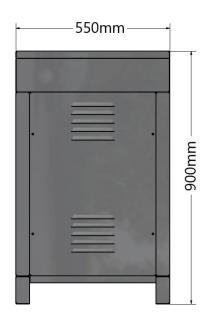


8. CABINET FOR THE CONTROL PANEL & HYDRAULIC UNIT

Space - Saving Design: Measuring at 900mm in height, 450mm in width and 550mm in depth, this cabinet fits seamlessly into tight spaces, making it ideal for installations with limited room.

Durable Construction: Built with galvanized sheet metal panels and painted in RAL 7040, the cabinet offers corrosion and water resistance (IP54), ensuring long-term durability.





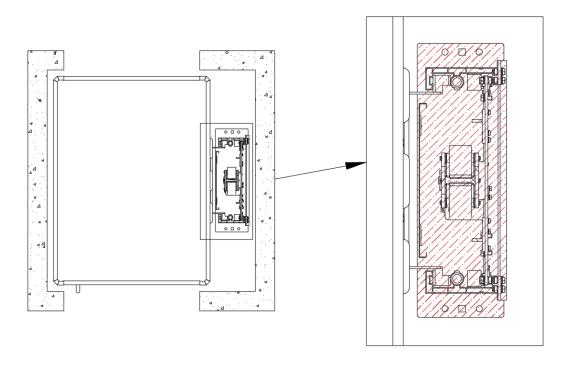


9. Forces

9.1 Forces at the pit base

The forces have been calculated for a maximum load of 420 kg and platform external dimensions of 1600 x 1250 mm.

The applied forces are: 60.000 N

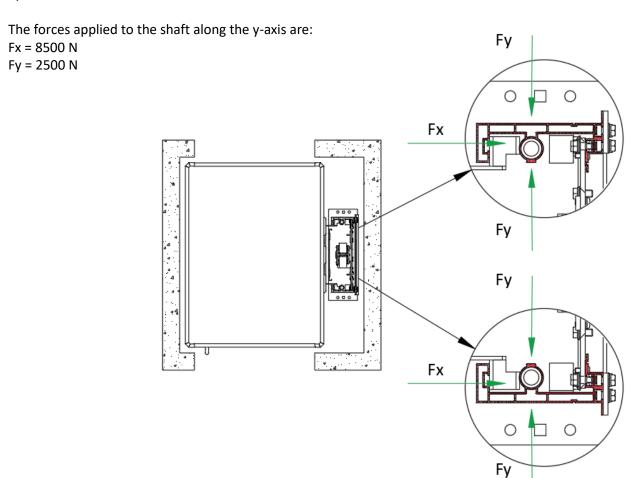


9.2 Forces on the shaft wall

The forces applied to the shaft along the x-axis are:

Fx = 9200 N

Fy = 920 N

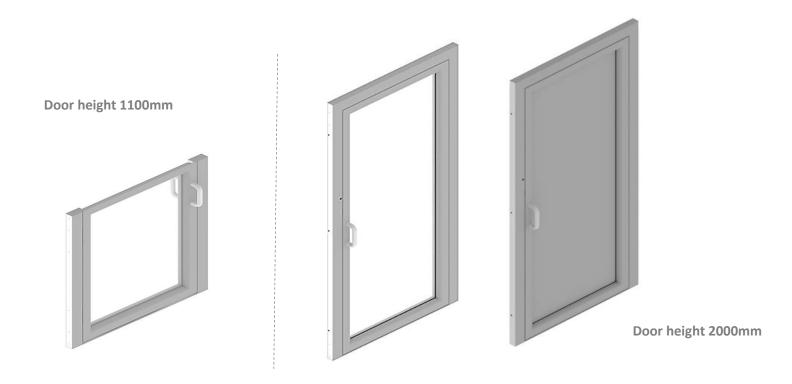


10. OPTIONAL EQUIPMENT

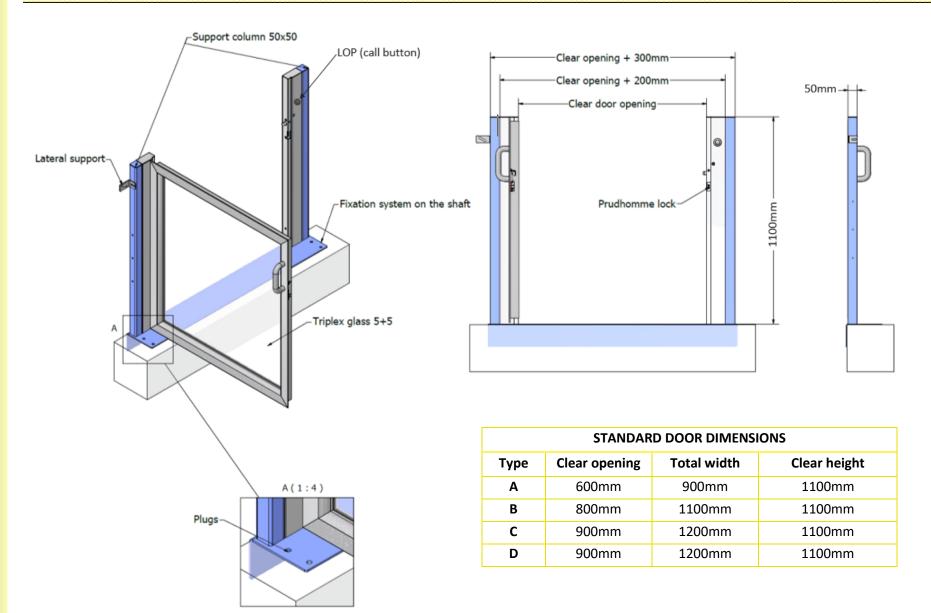
10.1 Level Doors

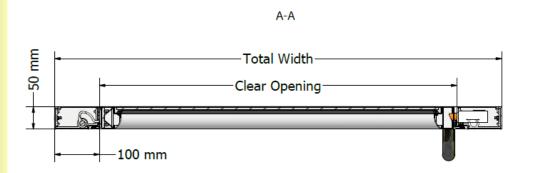
10.1.1 Description & available options

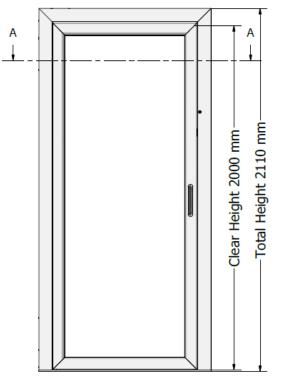
- √ Single doors.
- **✓ Operation:** Semi-automatic operation.
- **√ Hinge**: Left or right.
- ✓ Clear Height: 1100mm or 2000mm.
- ✓ **Lining**: Triplex glass, polycarbonate sheet or blind panel.
- ✓ **LOP**s are integrated on the doors with continuous pressure call button.
- ✓ Installation Options: Doors can be fixed freestanding on the level floor, mounted directly onto the building wall or integrated into the barrier.



10.1.2 Door height 1100mm





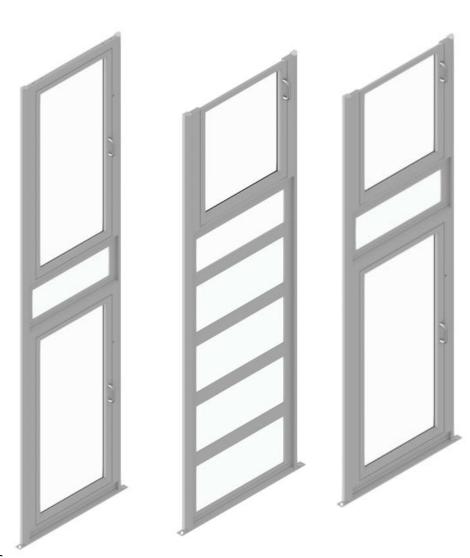


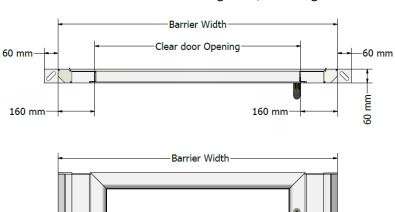
-50 mm

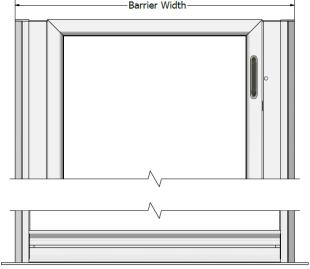
STANDARD DOOR DIMENSIONS					
Clear opening	Total width	Clear height	Total height		
600mm	800mm	2000mm	2110mm		
800mm	1000mm	2000mm	2110mm		
900mm	1100mm	2000mm	2110mm		
900mm	1100mm	2000mm	2110mm		
	600mm 800mm 900mm	Clear opening Total width 600mm 800mm 800mm 1000mm 900mm 1100mm	Clear opening Total width Clear height 600mm 800mm 2000mm 800mm 1000mm 2000mm 900mm 1100mm 2000mm		

10.2 Aluminium protective barrier & level doors

The protective barrier at the platform's exit is a key safety feature designed to prevent users from accidentally stepping off the platform while it is in motion, particularly in cases where there is no wall on the exit side, along the entire travel height. The doors are seamlessly integrated into the barrier, remaining securely closed during travel and unlocking only once the platform has reached the correct landing level, ensuring safe and controlled entry and exit.







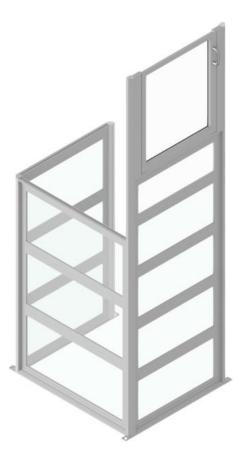
STANDARD BARRIER & DOOR DIMENSIONS				
Туре	Door clear opening	Barrier width		
Α	600mm	920mm		
В	800mm	1120mm		
С	900mm	1220mm		
D	900mm	1220mm		

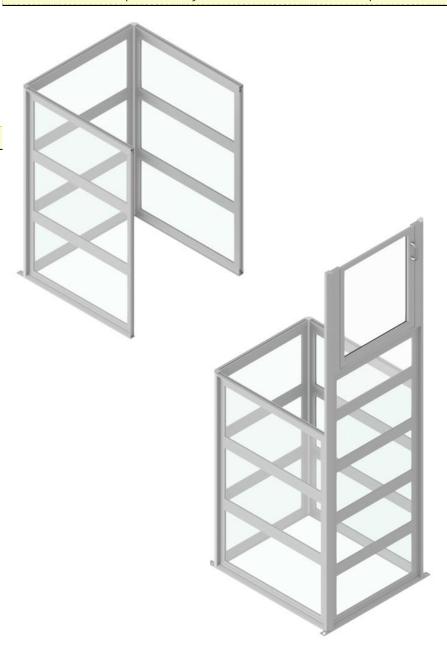
10.3 Aluminium protective frames on lower landing

As optional equipment, protective shaft frames can be installed at the lower landing to safeguard the machine area wherever required. Depending on the installation layout, the system can be equipped with 2-side or 3-side protective frames at a standard height of 2100 mm, ensuring complete safety on all exposed sides of the lift.

10.3.1 Aluminium protective frames on 2 sides - " Γ " shape





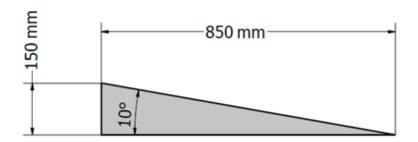


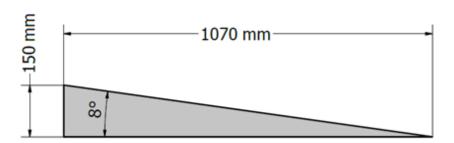
10.4 Access - Ramp

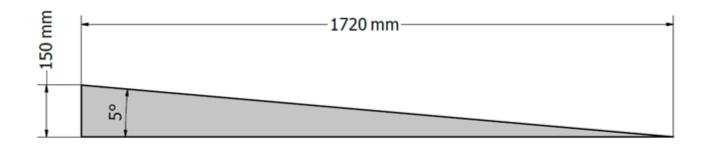
The pit required is 150mm.

In case there is not a pit a ramp can be added to close the gap.

Depending on the available space and requirements we can have the following ramp dimensions.

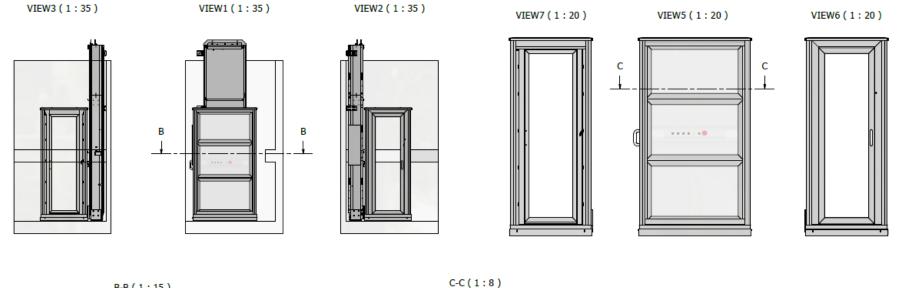


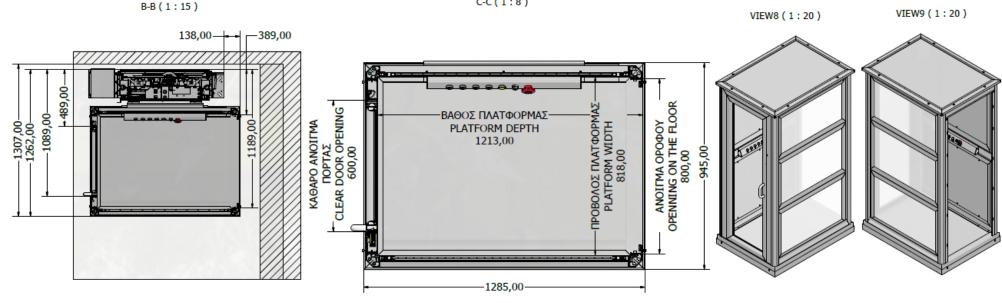




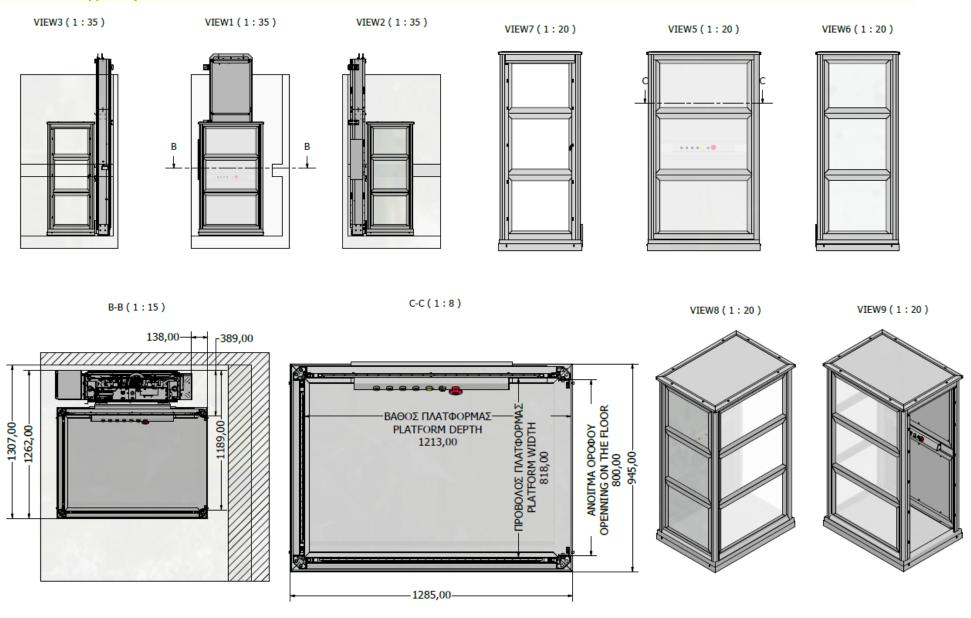
11. DETAILED DRAWINGS

11.1 Cabin type A | Entrance – Exit: Opposite sides



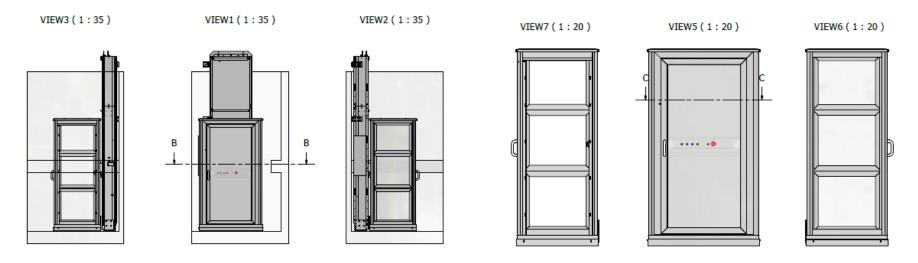


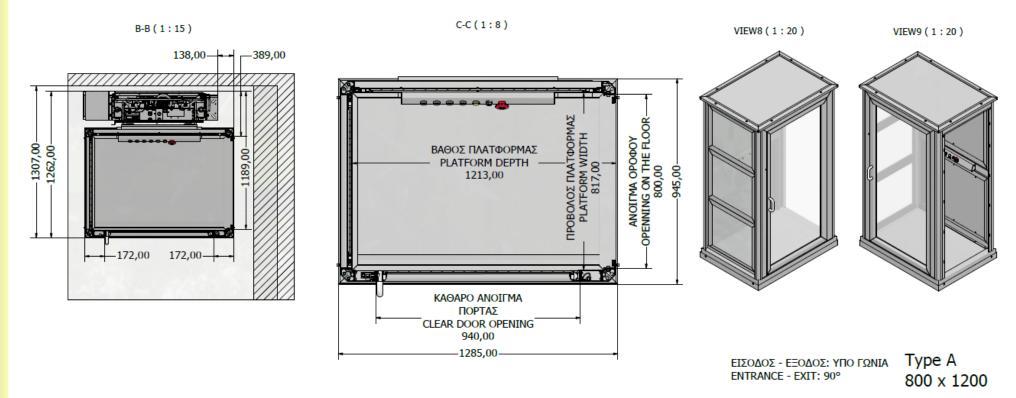
11.2 Cabin type A | Entrance – Exit: Same side



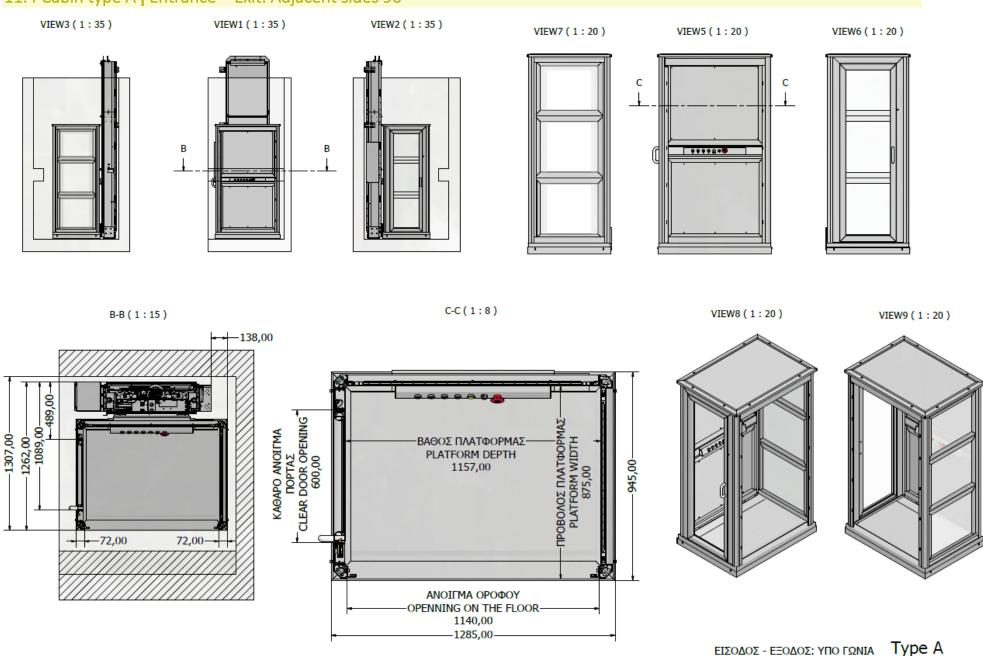
ΕΙΣΟΔΟΣ - ΕΞΟΔΟΣ: ΙΔΙΑ ΠΛΕΥΡΑ Type A ENTRANCE - EXIT: SAME SIDE 800×1200

11.3 Cabin type A | Entrance – Exit: Adjacent sides 90°





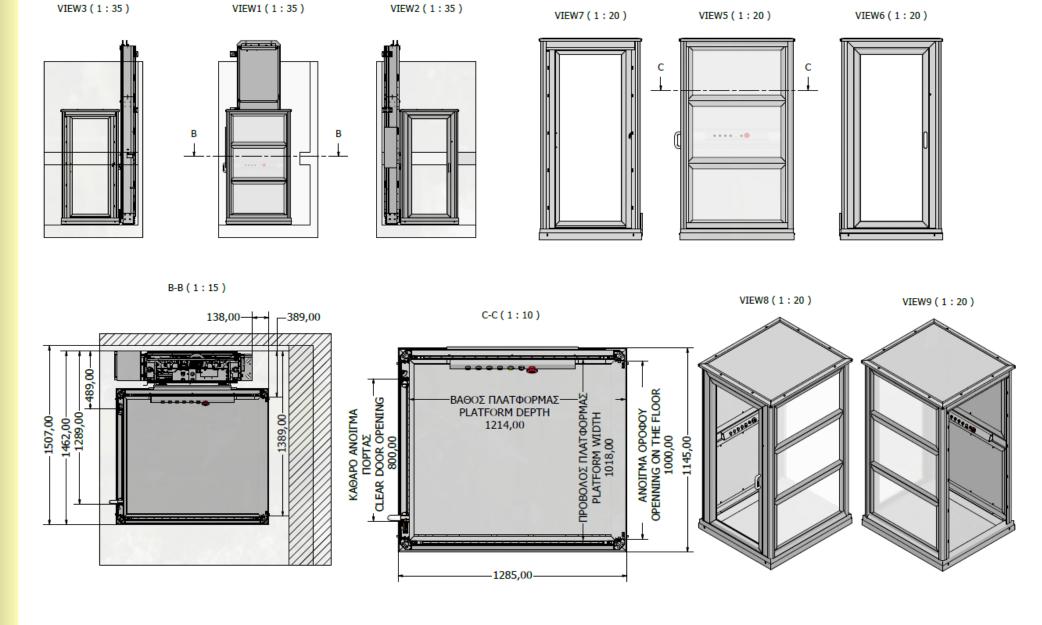
11.4 Cabin type A | Entrance – Exit: Adjacent sides 90°



ENTRANCE - EXIT: 90°

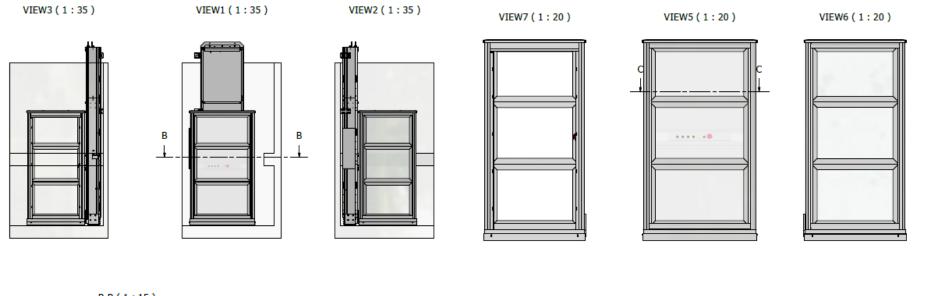
800 x 1200

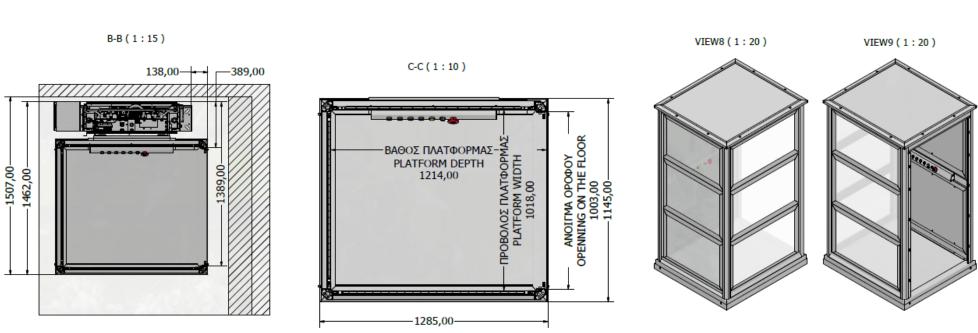
11.5 Cabin type B | Entrance – Exit: Opposite sides



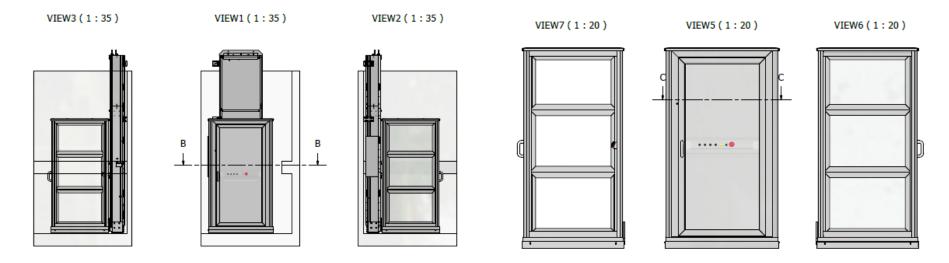
ΕΙΣΟΔΟΣ - ΕΞΟΔΟΣ: ΑΠΕΝΑΝΤΙENTRANCE - EXIT: OPPOSITE Type B 1000 x 1200

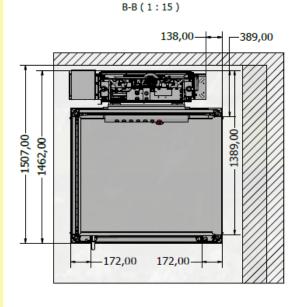
11.6 Cabin type B | Entrance – Exit: Same side

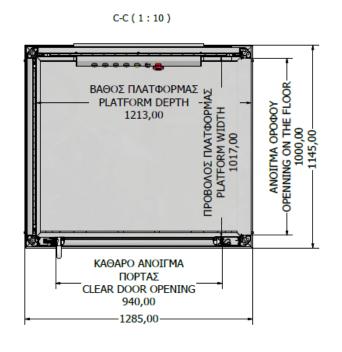


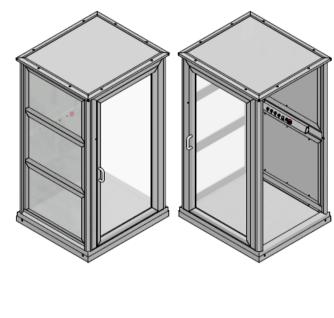


11.7 Cabin type B | Entrance – Exit: Adjacent sides 90°





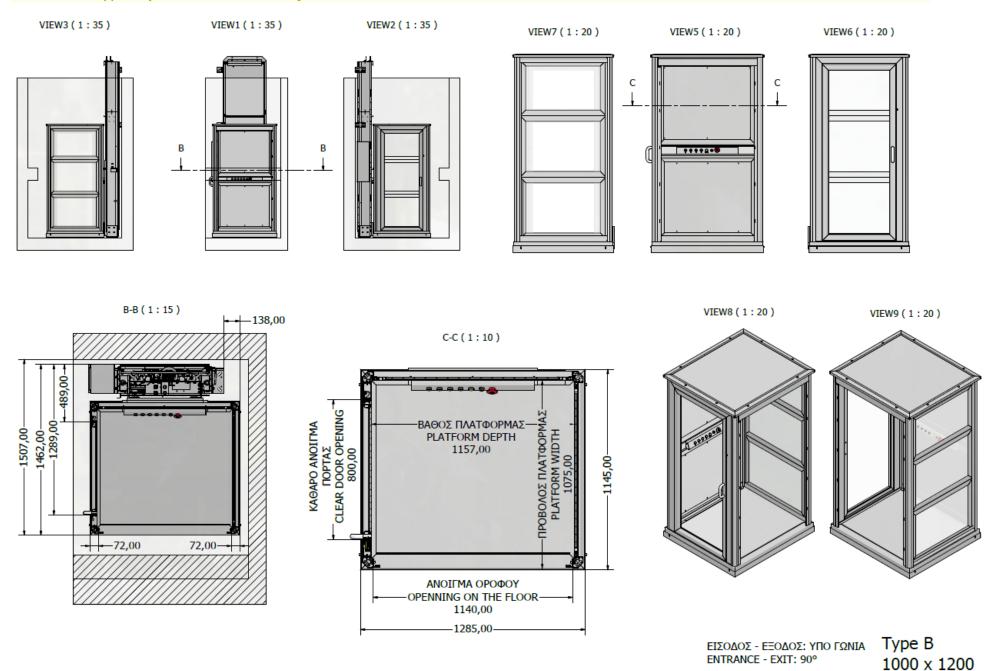




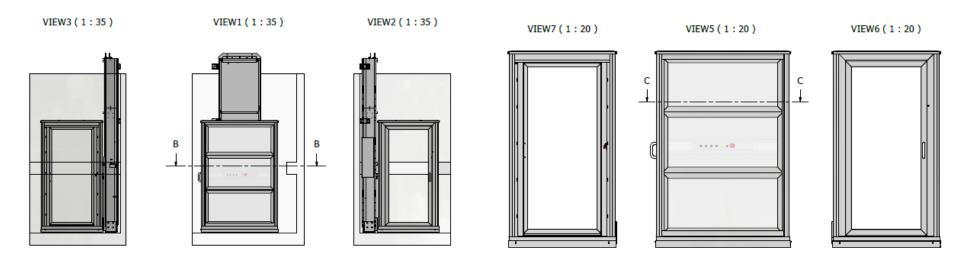
VIEW8 (1:20)

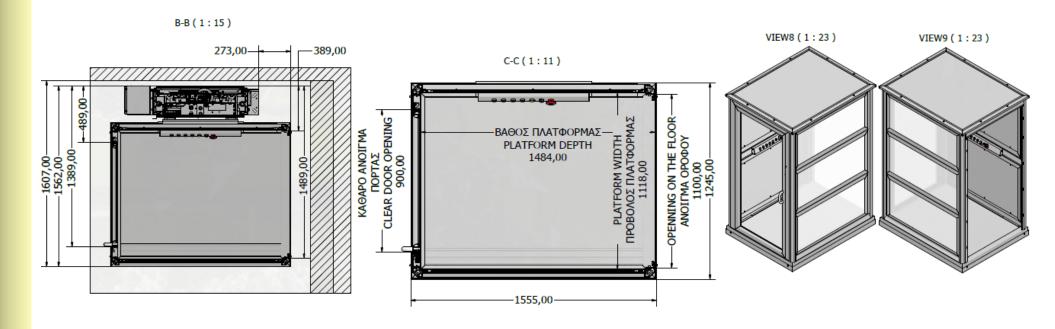
VIEW9 (1:20)

11.8 Cabin type B | Entrance – Exit: Adjacent sides 90°



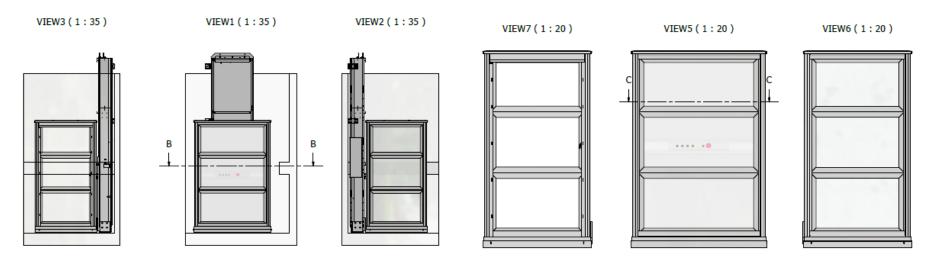
11.9 Cabin type C | Entrance – Exit: Opposite sides

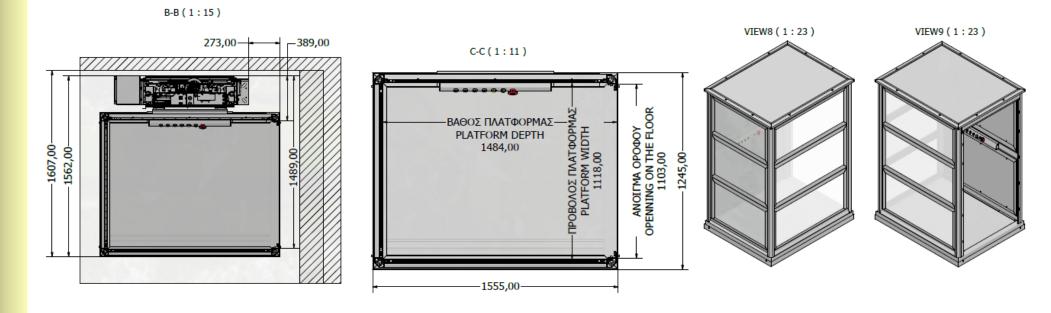




ΕΙΣΟΔΟΣ - ΕΞΟΔΟΣ: ΑΠΕΝΑΝΤΙENTRANCE - EXIT: OPPOSITE Type C 1100 x 1400

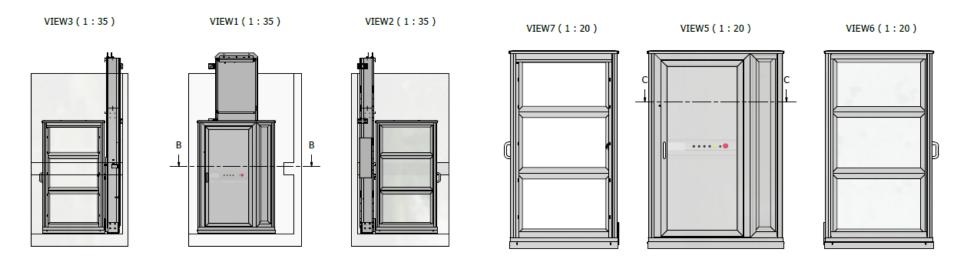
11.10 Cabin type C | Entrance – Exit: Same side

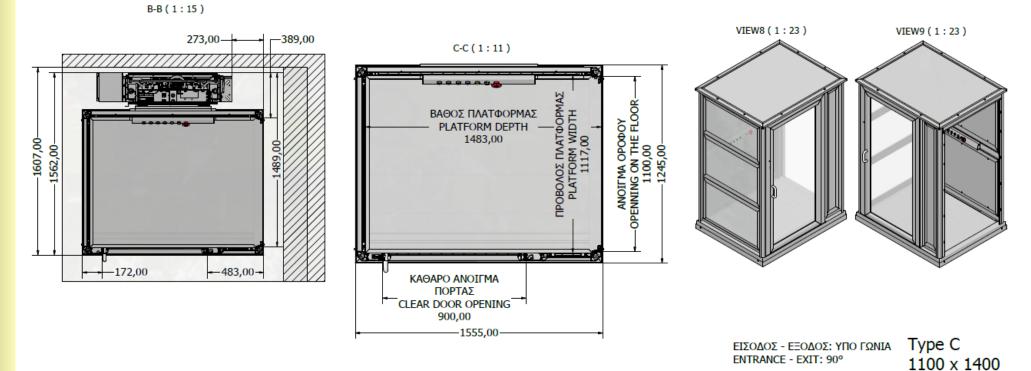




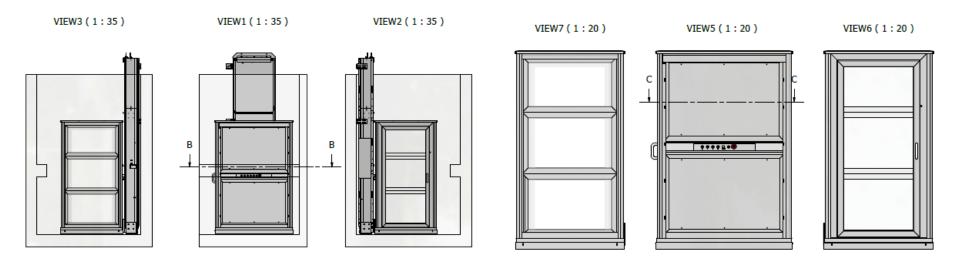
ΕΙΣΟΔΟΣ - ΕΞΟΔΟΣ: ΙΔΙΑ ΠΛΕΥΡΑ Type C ENTRANCE - EXIT: SAME SIDE 1100 x 1400

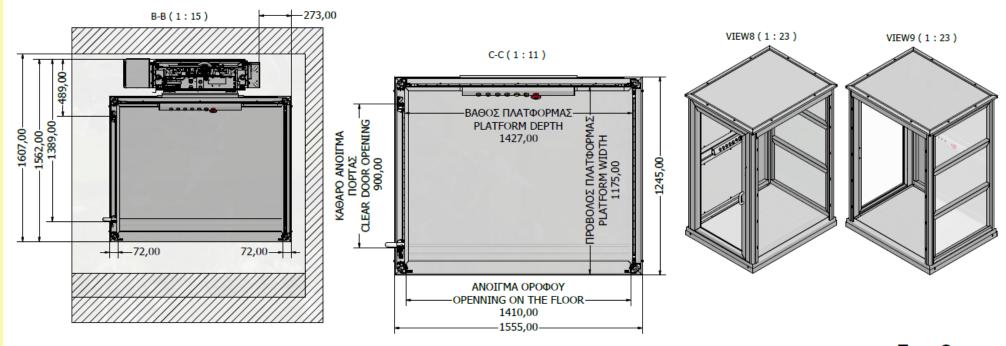
11.11 Cabin type C | Entrance – Exit: Adjacent sides 90°





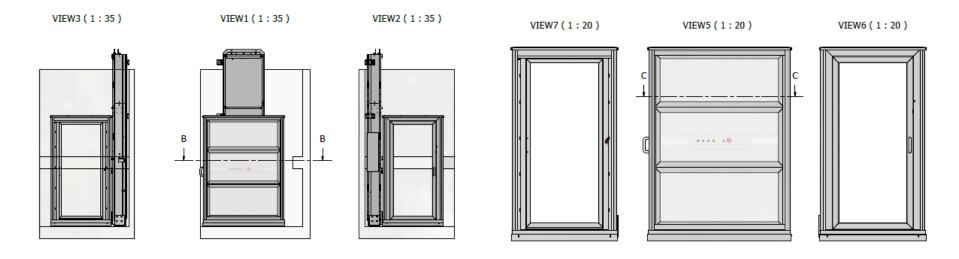
11.12 Cabin type C | Entrance – Exit: Adjacent sides 90°

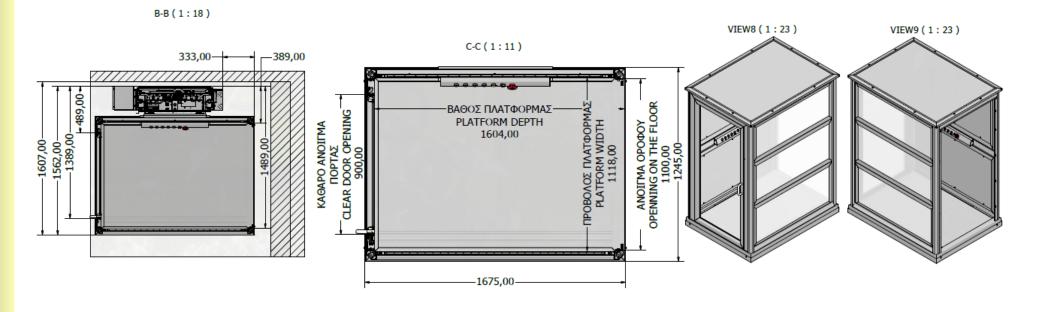




ΕΙΣΟΔΟΣ - ΕΞΟΔΟΣ: ΥΠΟ ΓΩΝΙΑ ENTRANCE - EXIT: 90° Type C 1100 x 1400

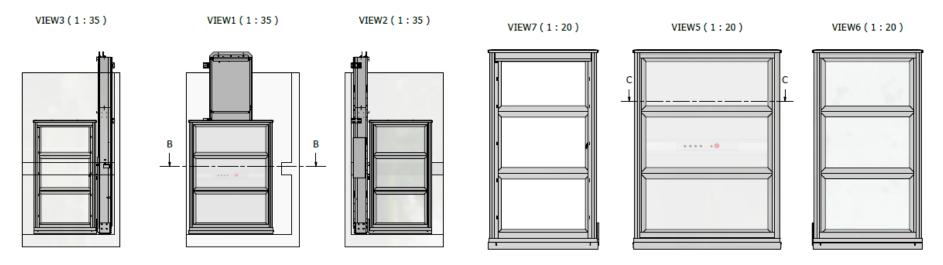
11.13 Cabin type D | Entrance – Exit: Opposite sides

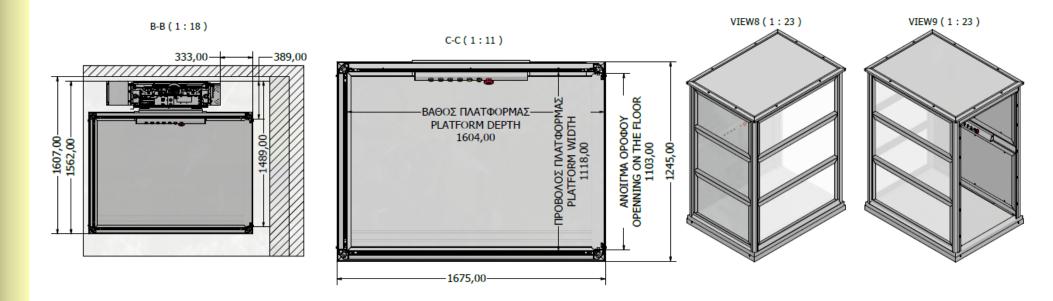




 $EI\SigmaO\DeltaO\Sigma$ - $EEO\DeltaO\Sigma$: AПЕNANTI Type D 1100 x 1600

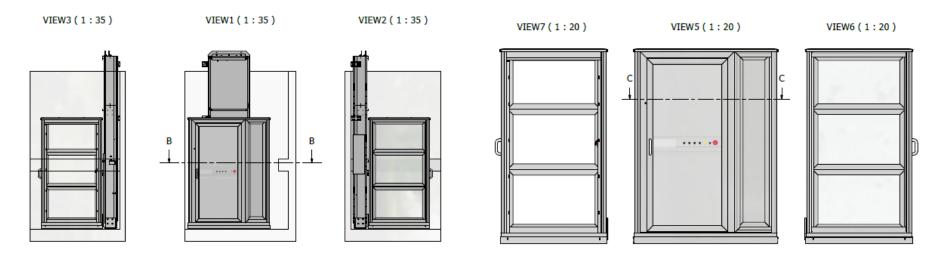
11.14 Cabin type D | Entrance – Exit: Same side

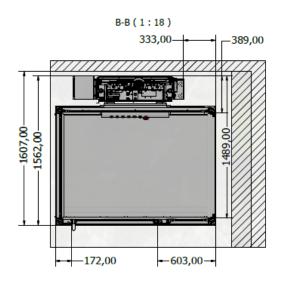


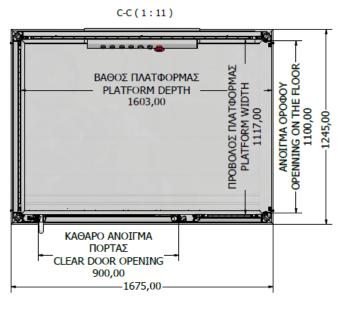


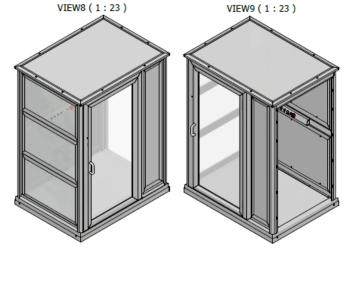
EΙΣΟΔΟΣ - ΕΞΟΔΟΣ: ΙΔΙΑ ΠΛΕΥΡΑ Type D ENTRANCE - EXIT: SAME SIDE 1100 x 1600

11.15 Cabin type D | Entrance – Exit: Adjacent sides 90°



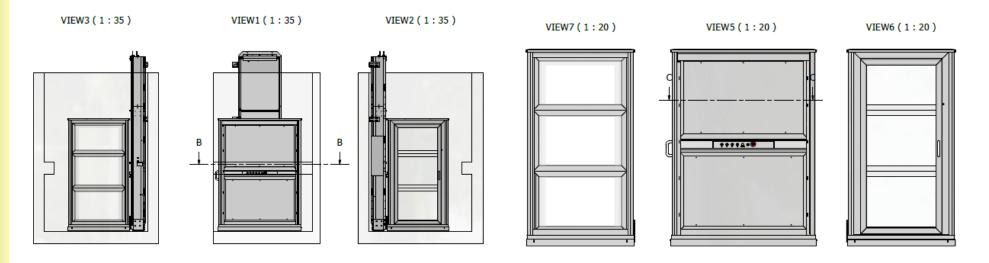


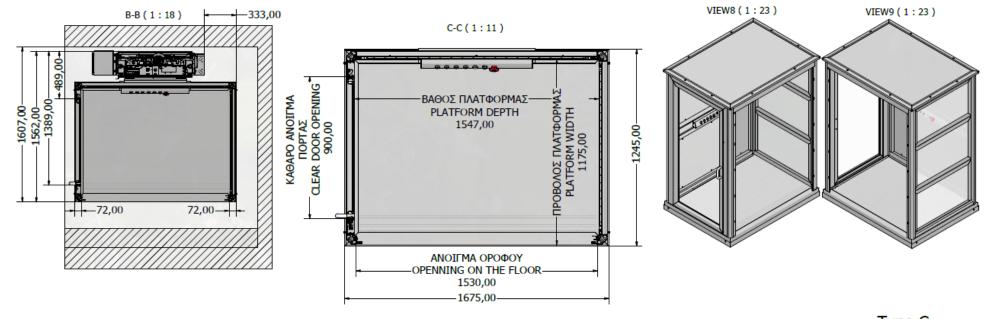




ΕΙΣΟΔΟΣ - ΕΞΟΔΟΣ: ΥΠΟ ΓΩΝΙΑ ENTRANCE - EXIT: 90° Type D 1100 x 1600

11.16 Cabin type D | Entrance – Exit: Adjacent sides 90°





ΕΙΣΟΔΟΣ - ΕΞΟΔΟΣ: ΥΠΟ ΓΩΝΙΑ ENTRANCE - EXIT: 90°

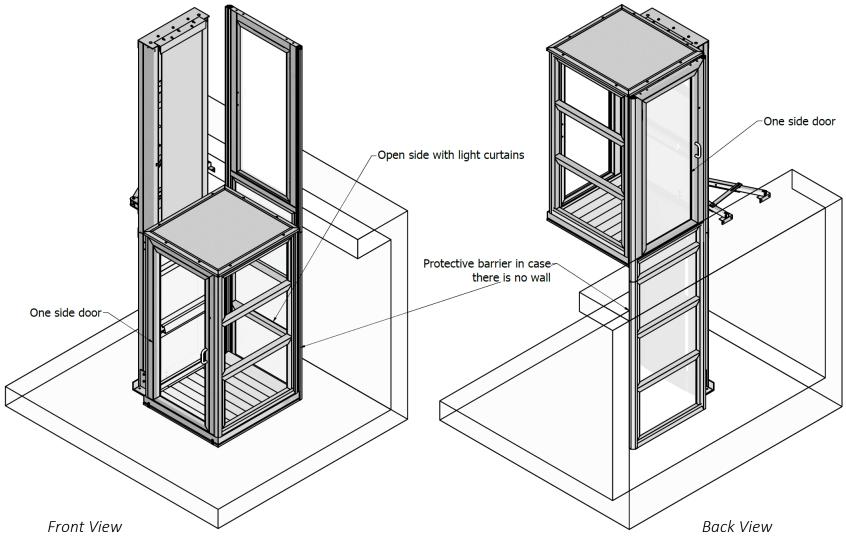
Type C 1100 x 1600

12. 3D VISUALISATION

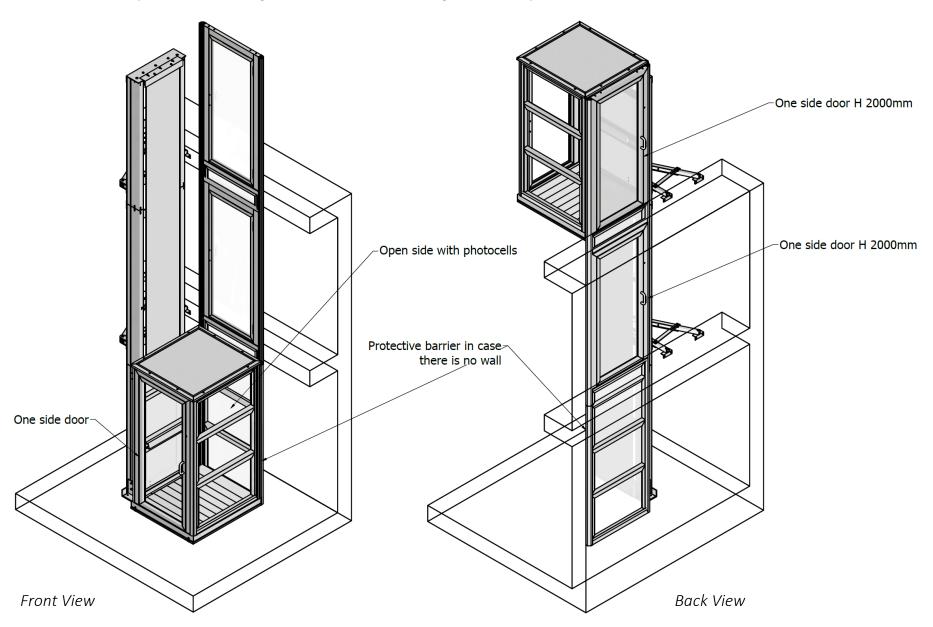
12.1 Closed cabin

12.1.1 Entrance – Exit: Opposite sides, 2 stops

In this option the cabin has 2 walls, one side door on the platform and one open side with photocells. The aluminium barrier has 1 door (H 2000mm) at the exit.

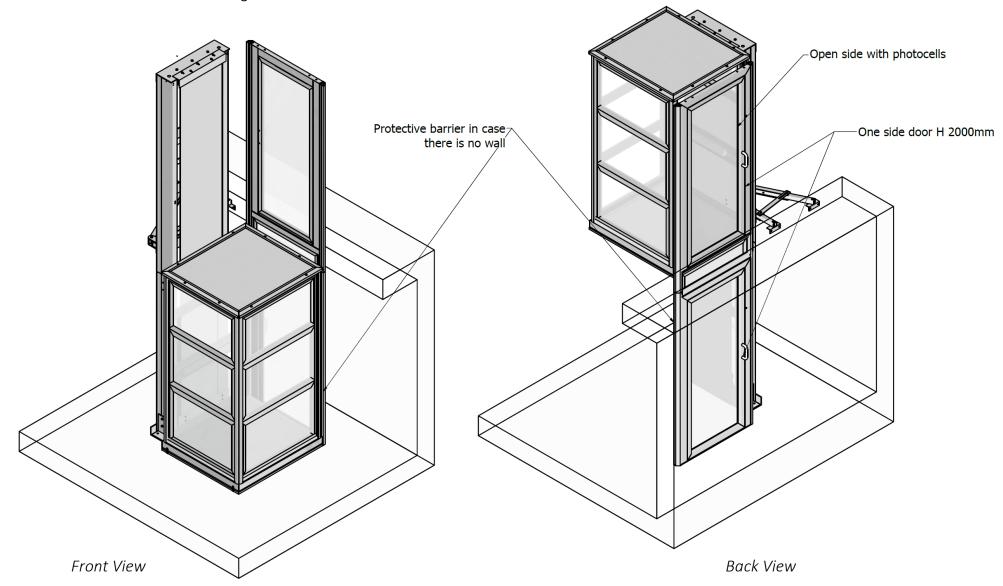


In case we have more than 2 stops then the wall integrates doors with 2000mm height at each stop.



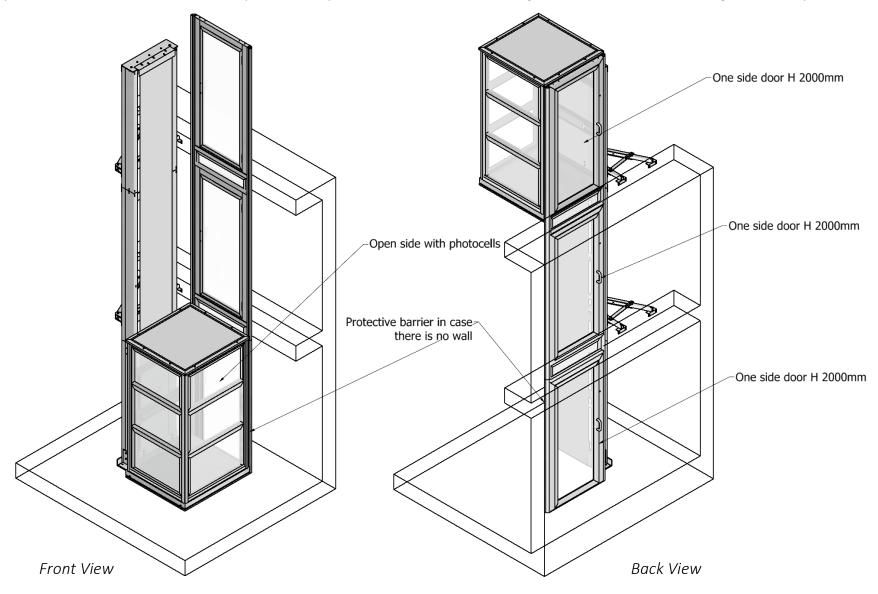
12.1.3 Entrance – Exit: Same sides, 2 stops

In this scenario the cabin has 3 sides closed with panels and one open side that has photocells for safety. The aluminium barrier has both doors fitted. The door in the entrance will have a height of 2000mm and the one in the exit 2000mm.



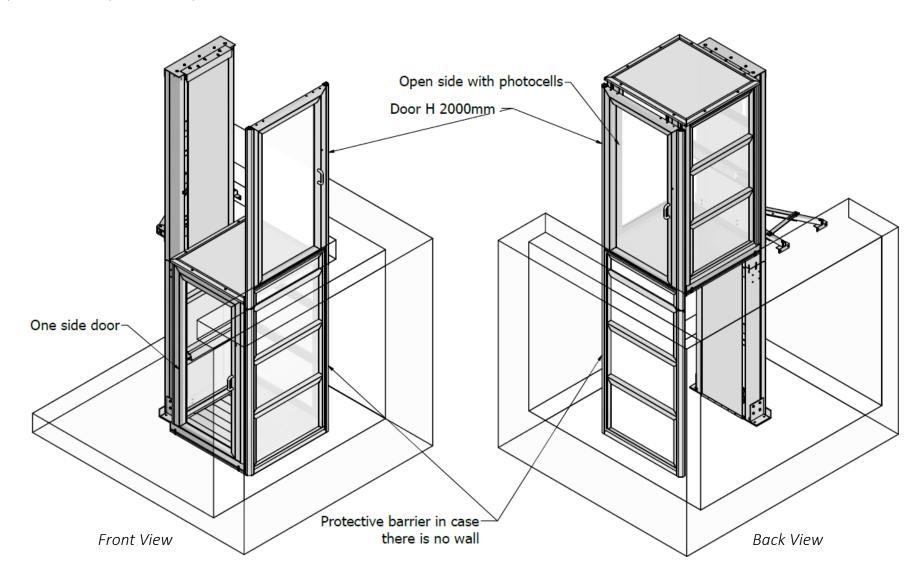
12.1.4 Entrance – Exit: Same side, 3 stops

Similarly in this case we offer a cabin with one open side. The protective barrier in the case integrates 3 doors with 2000mm height on the stops.



12.1.5 Entrance – Exit: Adjacent sides 90°, 2 stops

In this option the cabin follows the same principle as the entrance exit through. This means the cabin has one side door on the platform, 2 sides covered with panels and one open side with photocells. The aluminium barrier has 1 door (H 2000mm) at the exit.



12.2 Open Cabin

12.2.1 Entrance – Exit: Opposite sides, 2 stops

