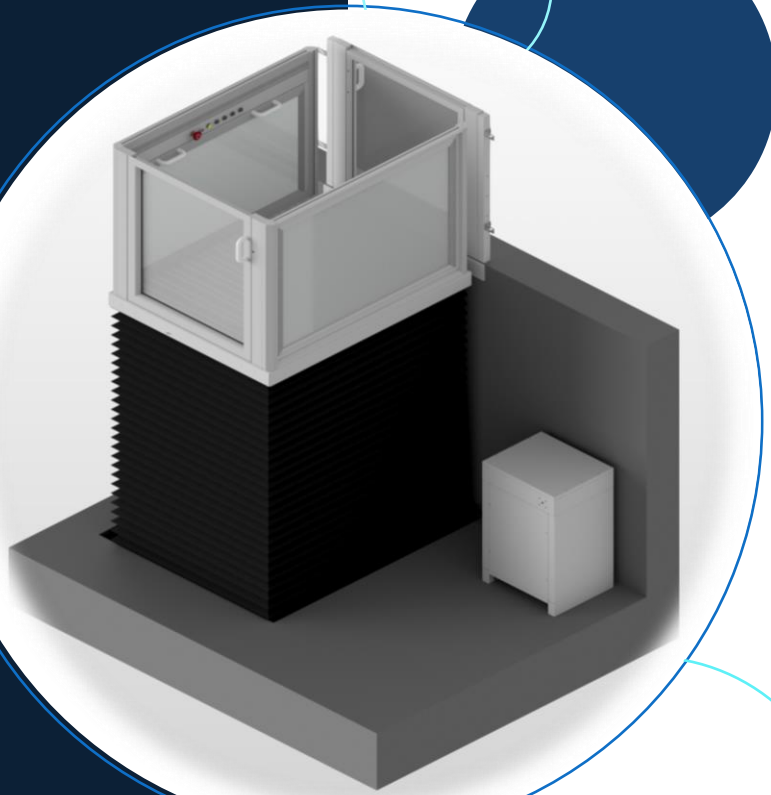
UN_929

DOUBLE & TRIPLE Scissor Lifting Platform for Disabled People



WHY USE IT?

A **scissor lift for disabled people** is a lifting platform designed to safely transport individuals with mobility impairments between different levels. It operates using a **scissor mechanism**, which allows the platform to move vertically with smooth, stable, and precise control, ensuring comfortable and reliable transportation. Thanks to its compact design, this lift is perfect for installations where space is limited.

CONTACT US

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UNIQUE
Manthos Lift Solutions

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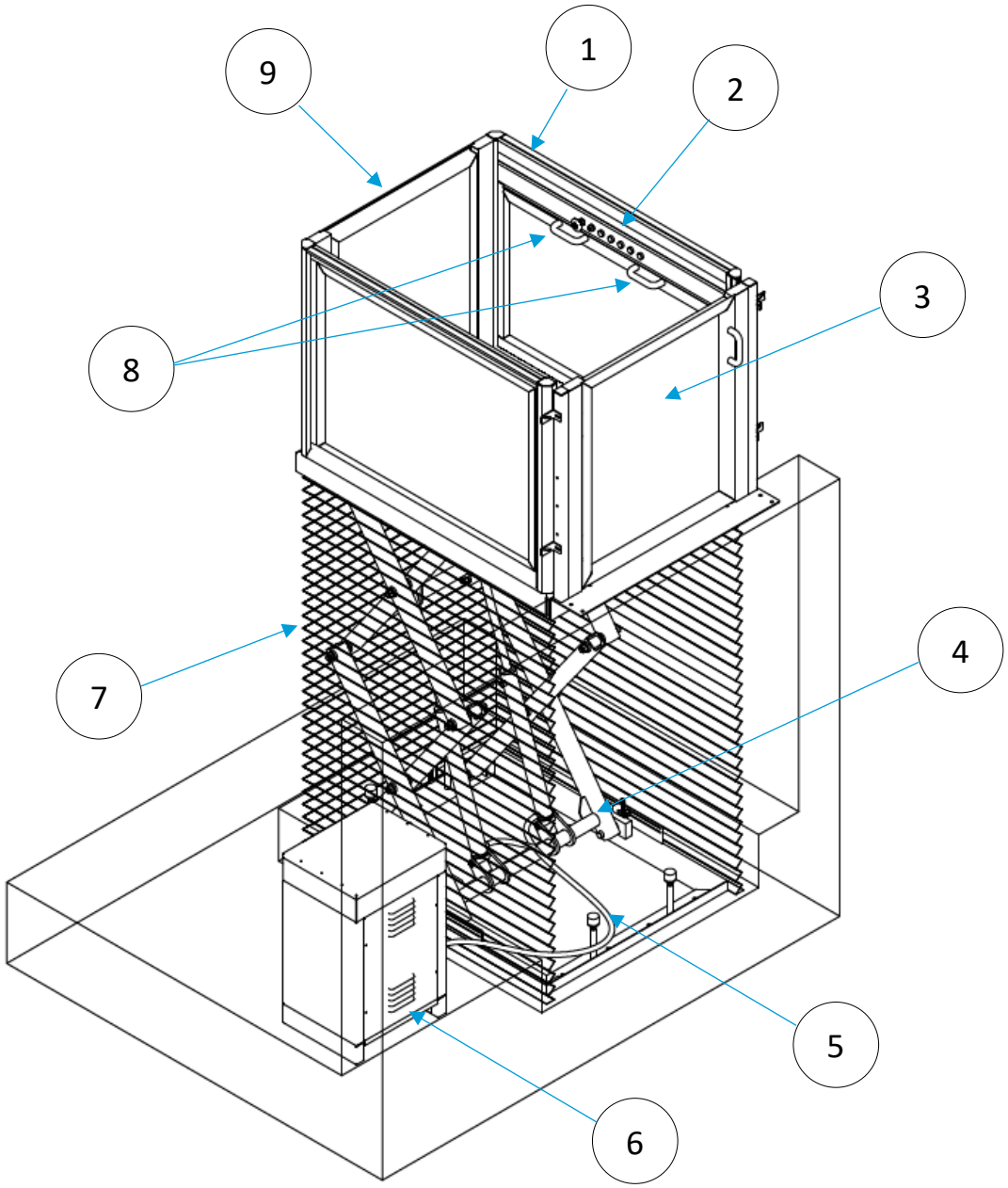
PRODUCT DESCRIPTION



INFORMATION

1. **Railings - Height 1100mm**: The lift is equipped with safety railings at a height of 1100mm to ensure user safety and minimize the risk of accidental falls during operation.
2. **Cabin Operation Panel (COP)**: It includes buttons to move the lift up and down, an emergency stop, alarm, and a key switch to restrict access to authorized users only.
3. **Door On the Level - Height 1100mm**: This is a protective door installed at the upper stop to prevent accidental entry into the lift area when the platform is not at that level. The door can be left or right hinged.
4. **Scissor Platform**: The main lifting platform, supported by the scissor mechanism, moves vertically to transport users safely between different heights.
5. **Rubber Hose:** Flexible tubing used to transport hydraulic fluid within the system.
6. **Cabinet:** It includes the hydraulic unit along with the control panel.
7. **Bellow U - Shape (3 Sides)**: It is a flexible, accordion-like cover that protects lift's components from dust, dirt, and moisture while also enhancing safety by reducing the risk of accidental contact with moving parts.
8. **Handrails:** Sturdy supports installed inside the lift cabin to provide passengers with stability and safety during movement
9. **Door On the Platform - Height 1100mm**: It ensures that users remain safe inside the lift while in motion and prevents accidental movement outside the designated area. The door can be left or right hinged.

SPECIFICATIONS

- **Rated Load: 420 kg**
- **Stops: 2**
- **Standard Platform Sizes: Type B and Type C**
  The lift is available in two standard sizes to suit different space needs.
- **Platform Clear Dimensions:**
  Type B: 1015 x 1215 mm / Type C: 1115 x 1485 mm
- **Platform External Dimensions:**
  Type B: 1130 x 1270 mm / Type C: 1230 x 1540 mm
- **Speed: 0.06 m/sec**
- **Motor: 2 Hp / 220 V**
- **Hydraulic Cylinder: 2-pieces Φ70 x 0.5**
- **Rod: 2-pieces Φ35**
- **Rubber hose and cable length: 3 m**
- **Scissor Lift Configuration: Available in double or triple scissor version**, depending on the required travel height.
- **Certified under Machinery Directive 2006/42/EC**
- **Examination Certificate for compliance with European safety standards**

Double Scissor

- **Total Travel Height:**
  Type B: Max 1720 mm / Type C: Max 2170 mm
- **Closed Machine Height - Pit Requirements: 280 mm**

Triple Scissor

- **Total Travel Height:**
  Type B: Max 2450 mm / Type C: Max 3200 mm
- **Closed Machine Height - Pit Requirements: 320 mm**

STRUCTURAL MATERIALS AND FINISH

The platform is constructed using high-quality, corrosion-resistant materials, carefully selected for durability, strength, and aesthetic integration in both **indoor** and **outdoor environments**

- **Cabin & Doors:** Made of lightweight, corrosion-resistant aluminium**.**
- **Floor:** Anodized aluminium sheet for durability and reduced weight.
- **Scissor Mechanism & Base Frame:** All steel parts are hot-dip galvanized for long-term protection against corrosion.

- **Standard Finish: NEOKEM AMMOS 7040**
  (Other RAL colours are available upon request)

CABIN AND DOORS LAYERING

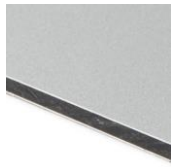
There are three available options for the layering of the cabin and doors, tailored to your requirements and preferences:

Polycarbonate Sheet

Color: Milky White

Aluminium Panel (Bond)

Color: Aluminium Grey



Triplex Glass

BENEFITS

Enhanced Accessibility – Provides a safe and easy way for wheelchair users to move between different levels.
Stable Vertical Movement – Ensures very smooth and stable vertical travel for maximum user comfort and confidence.
User Safety – Equipped with safety features like anti-slip flooring, secure doors, safety railings and emergency lowering systems.
Space-Saving Design – Requires minimal installation space compared to ramps or elevators.
Easy to Use – Hold-to-run controls offer quick access and smooth, easy operation.
Durability & Reliability – Built with strong materials for long-lasting performance with minimal maintenance

SAFETY FEATURES

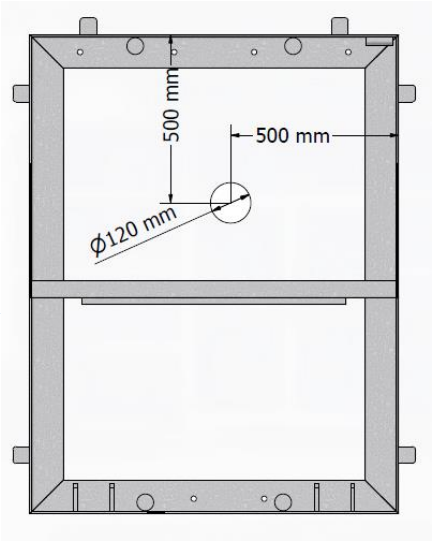
Battery Operated Evacuation – Allows safe descent during a power failure.
Parachute Valve – Stops sudden descent if the hydraulic hose fails.
Hold-to-Run Buttons – Ensures movement only while the button is pressed.
Electromechanical Door Locks – Keeps doors securely closed during operation.
Anti-Slip Floor – Provides a stable, non-slip surface for user safety.
Emergency Stop Button – Instantly stops the lift in case of an emergency.
Overload Protection (Overpressure Valve) – Stops operation if the lift exceeds weight limits.

CONSTRUCTION REQUIREMENTS

Pit Requirements

- **Minimum Pit Depth**: 280 – 320mm (Varies by model)
- **Flat, level surface** with proper drainage to avoid water accumulation.

This is a typical drawing indicating the suggested drainage position in relation to the base frame of the machine



Load - Bearing Surface

- The base must support the **total load** (rated load + lift weight), typically **over 800 kg**.
- **A concrete base** is recommended for durability and stability.

Accessibility Provisions

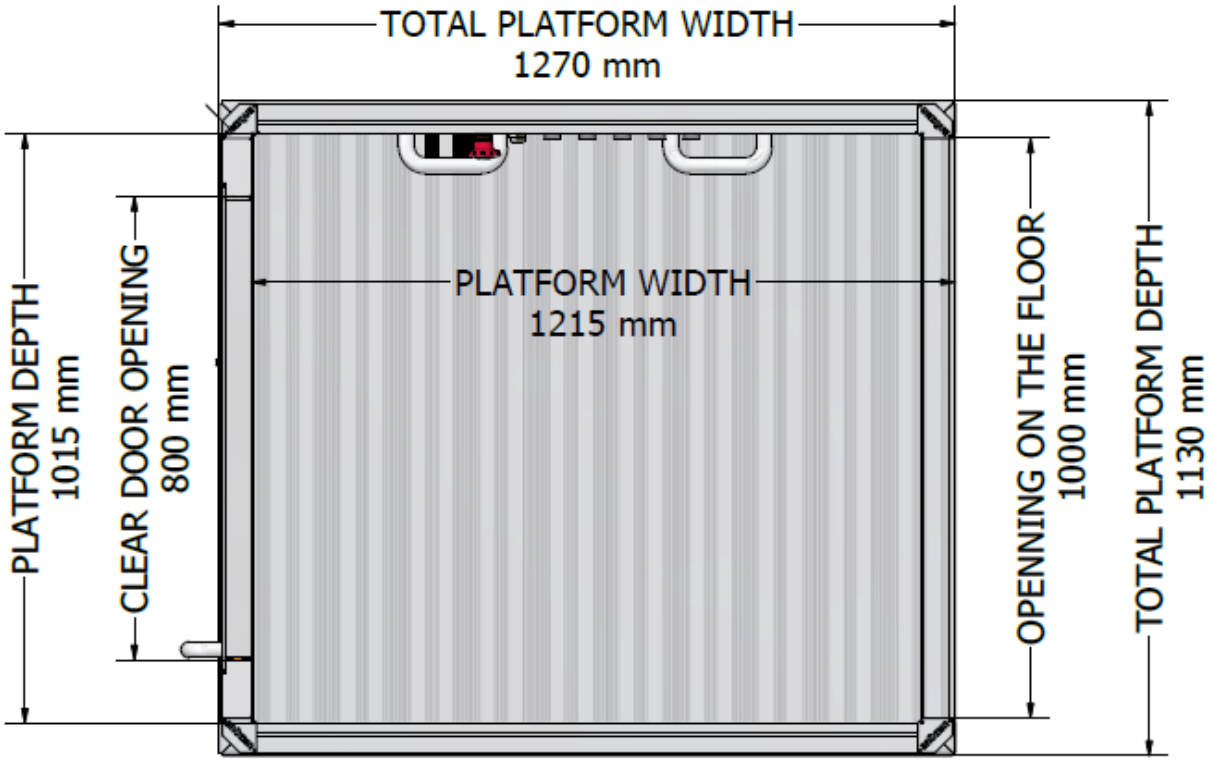
- **Clear access path** to the platform, without obstructions.

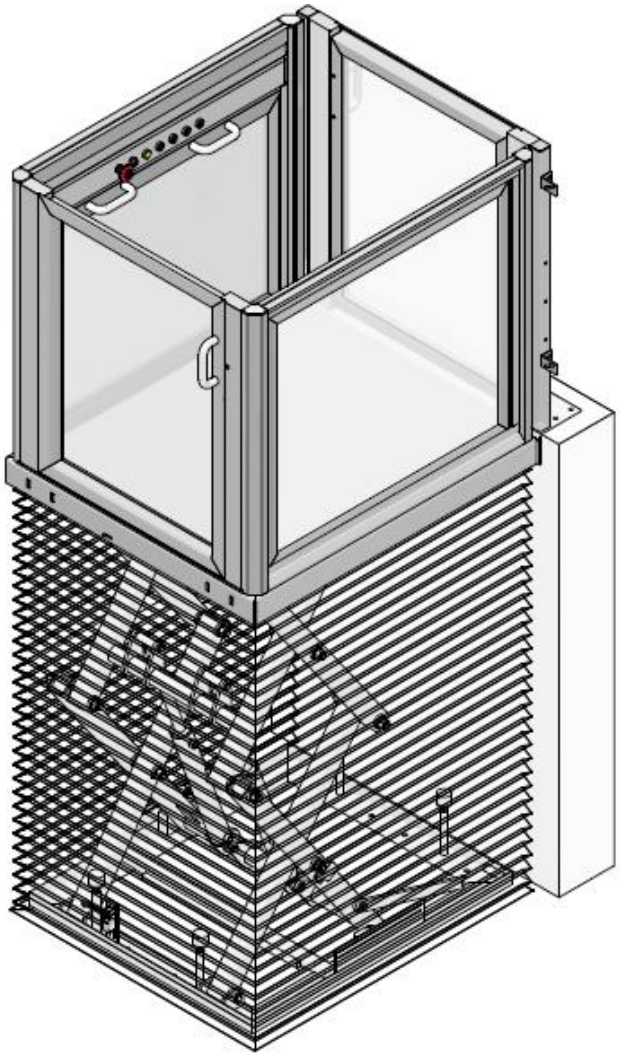
ELECTRICAL REQUIREMENTS

→ **Power Supply:** 220V (1-phase), (1.5kW)
→ **Current Operation:** 16A
→ **Main Required Fuse:** 3 x fuse 16 A (slow)
or circuit breaker 3 x 16 A (trigger characteristic K or C)

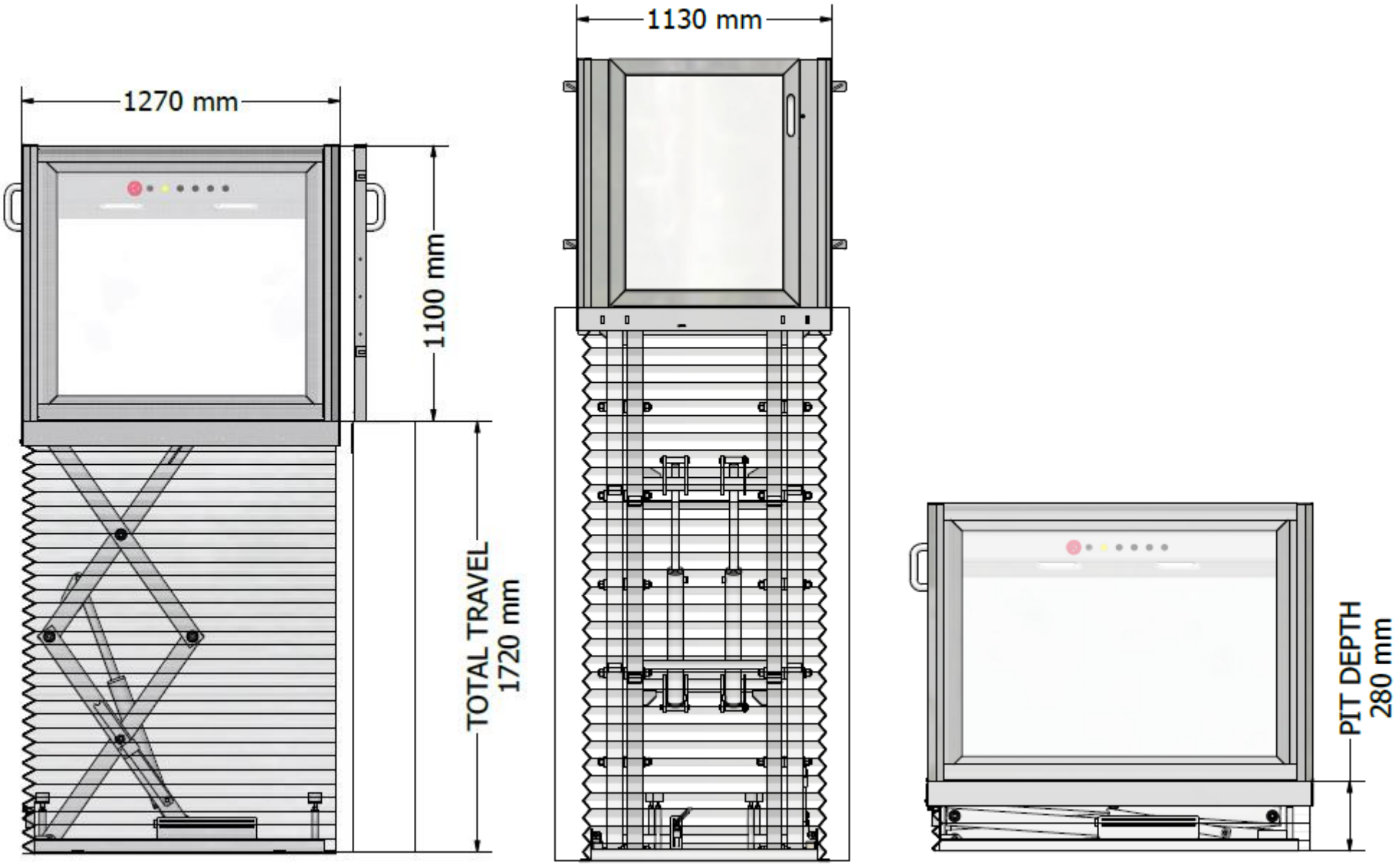
DESIGN & DIMENSIONS | ENTRANCE - EXIT THROUGH (180°)

Type B | Double scissor lift - Top View

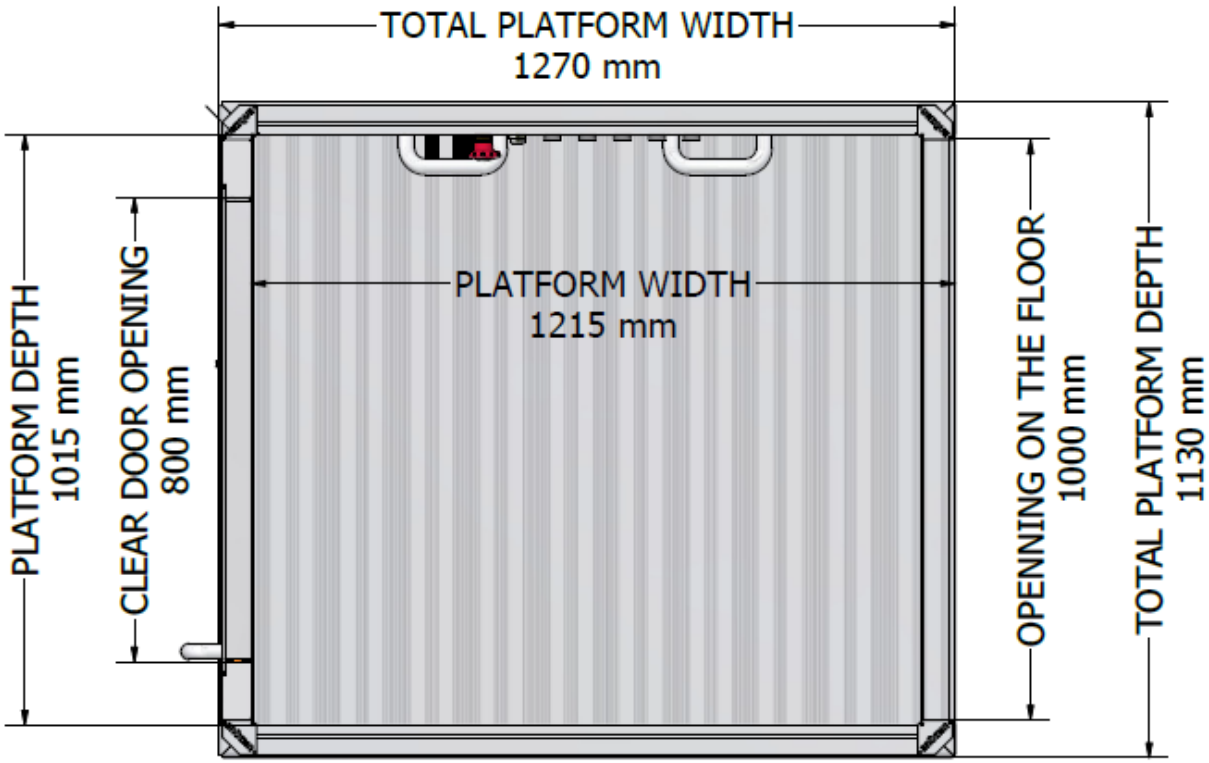


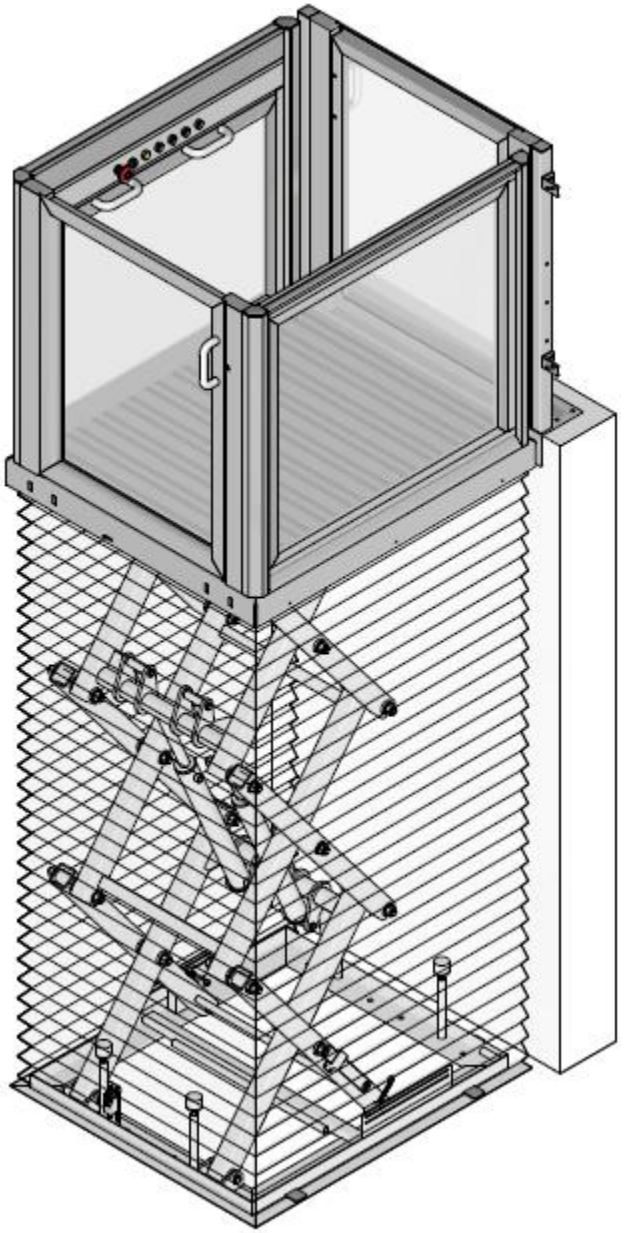


Type B | Double scissor lift - Side View

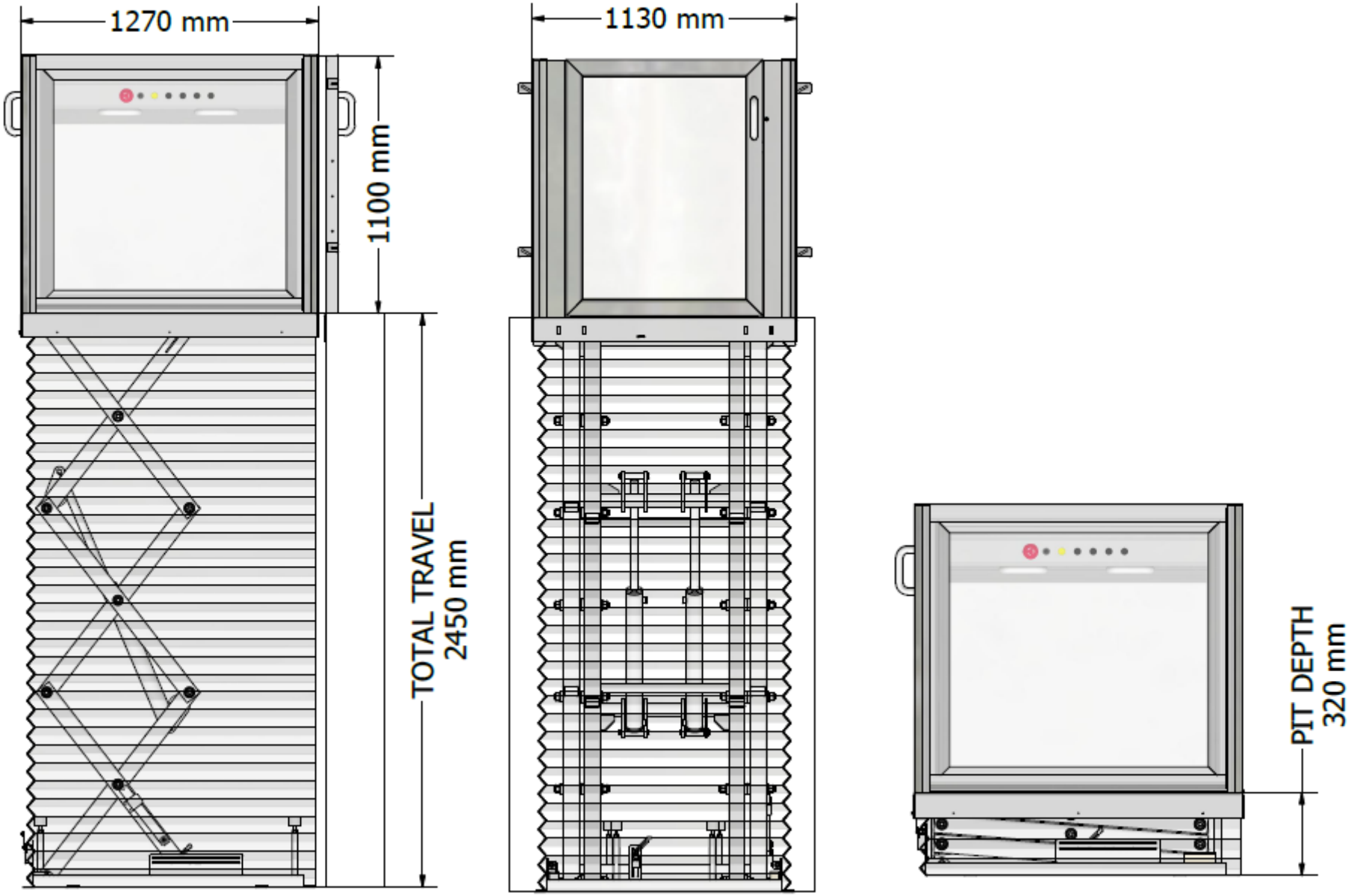


Type B | Triple scissor lift - Top View

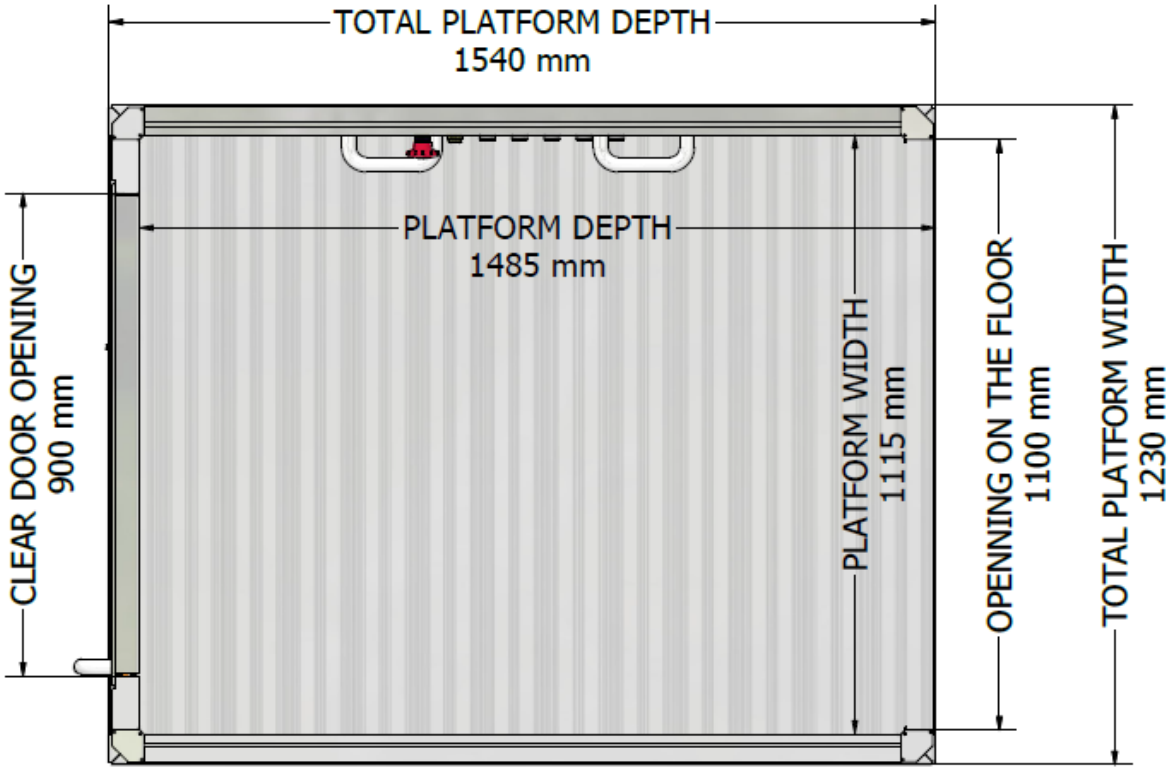


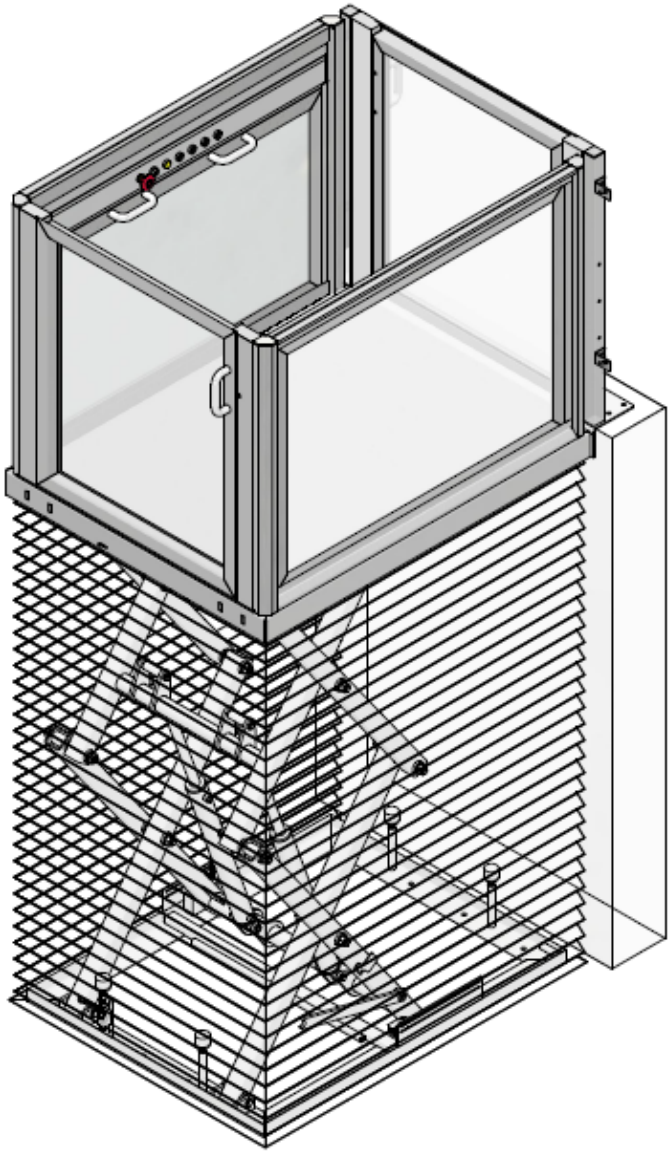


Type B | Triple scissor lift - Side View

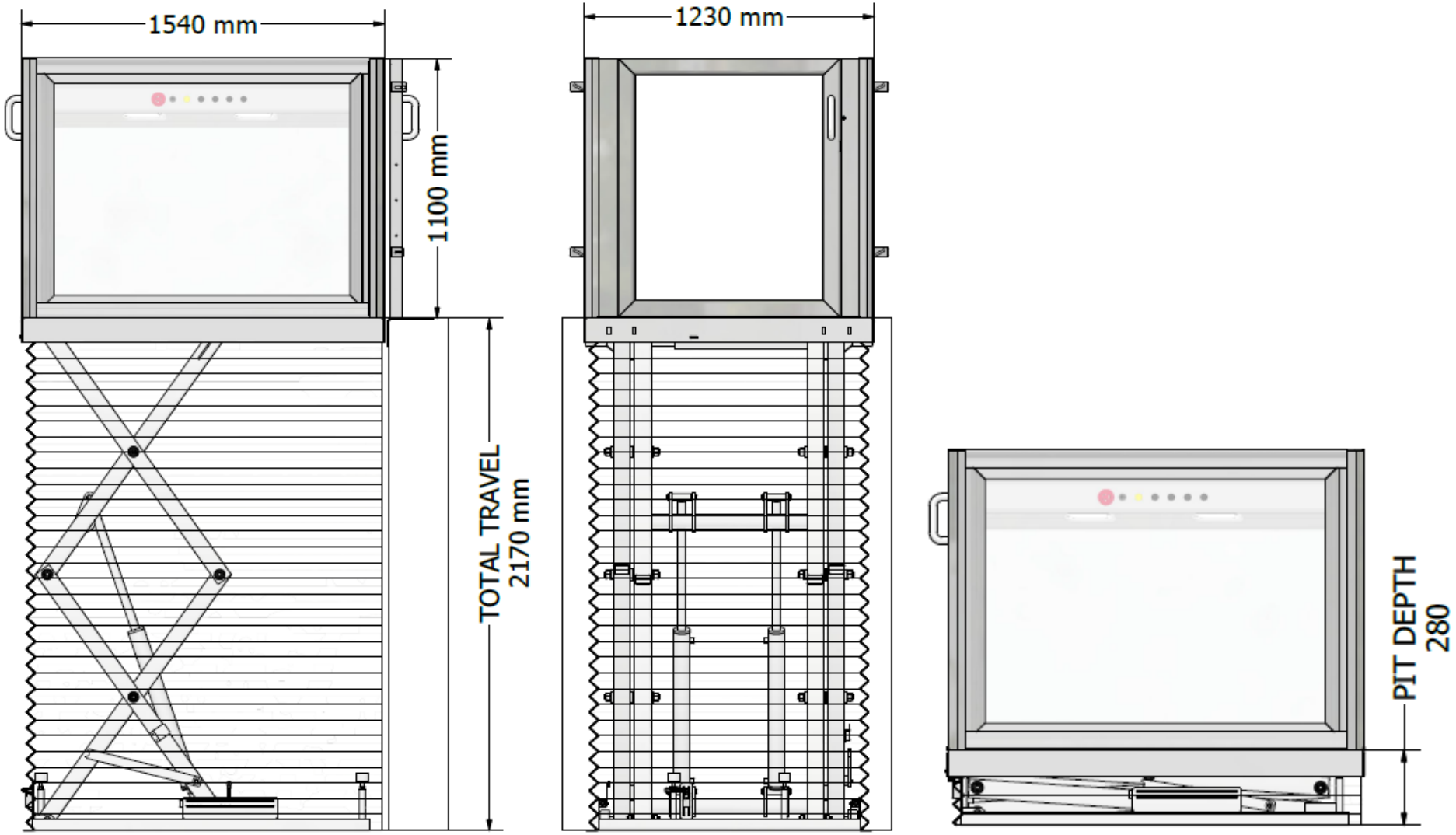


Type C | Double scissor lift - Top View

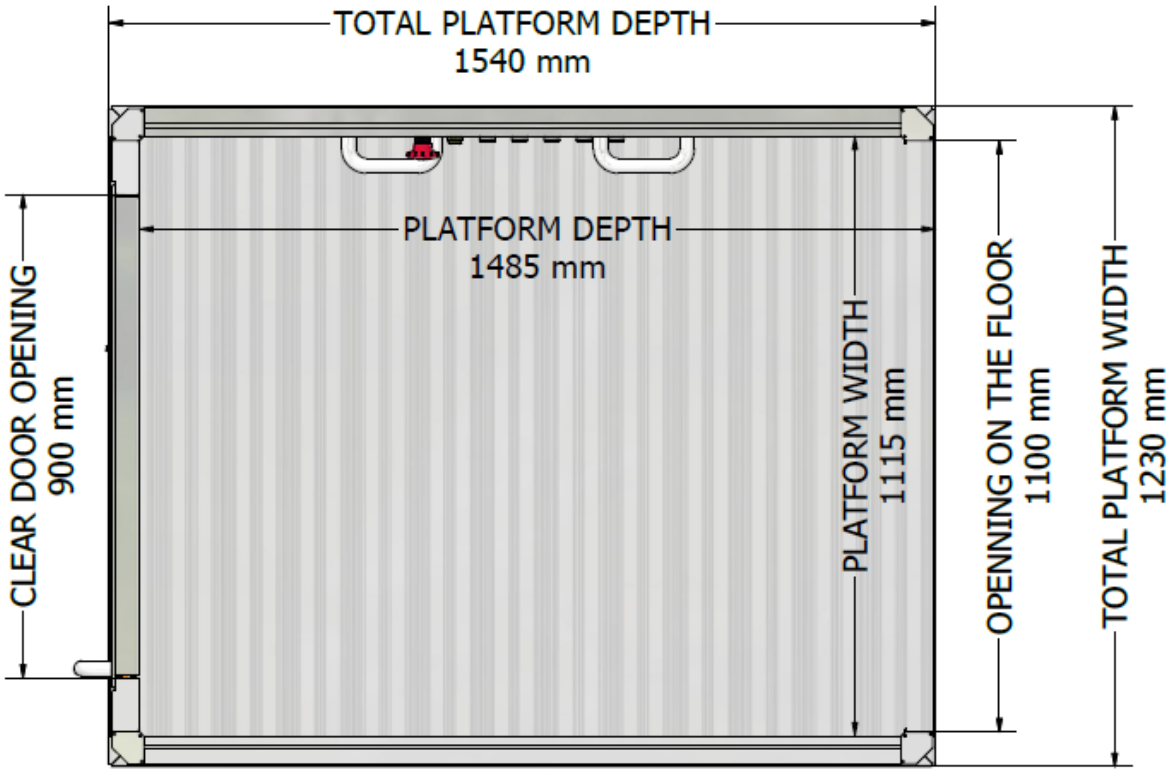


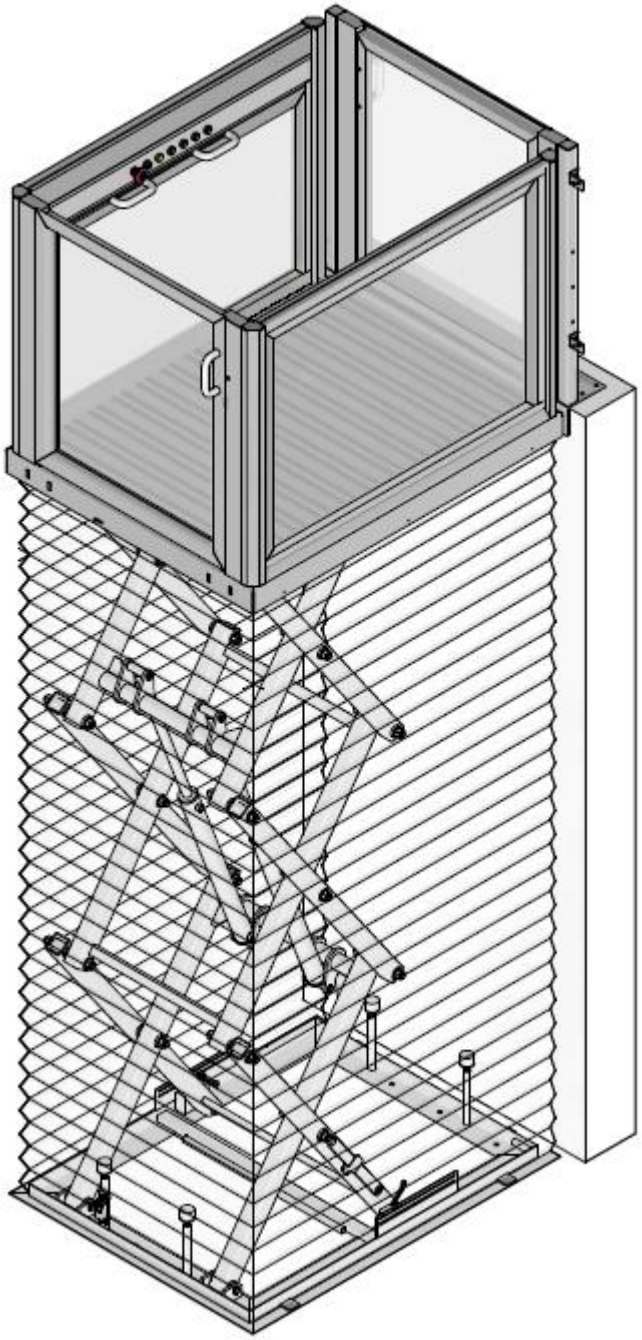


Type C | Double scissor lift - Side View

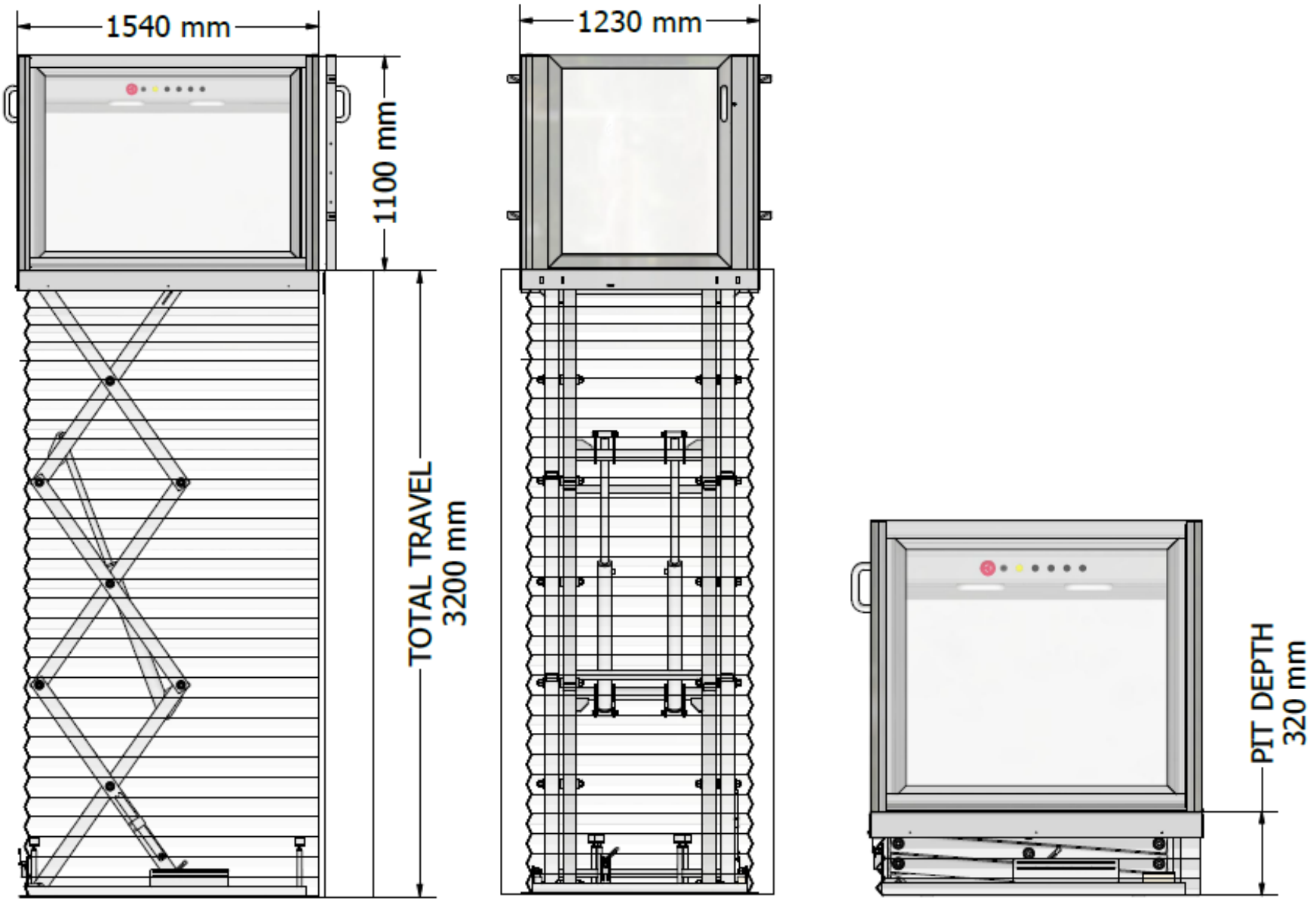


Type C | Triple scissor lift - Top View





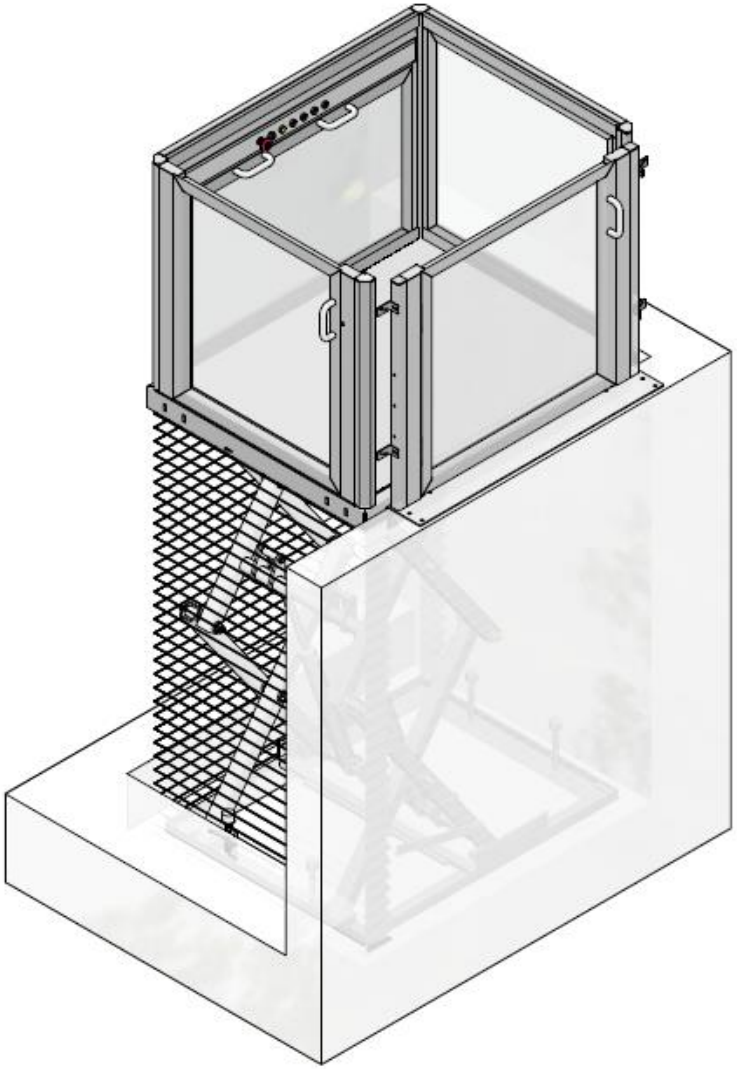
Type C | Triple scissor lift - Side View

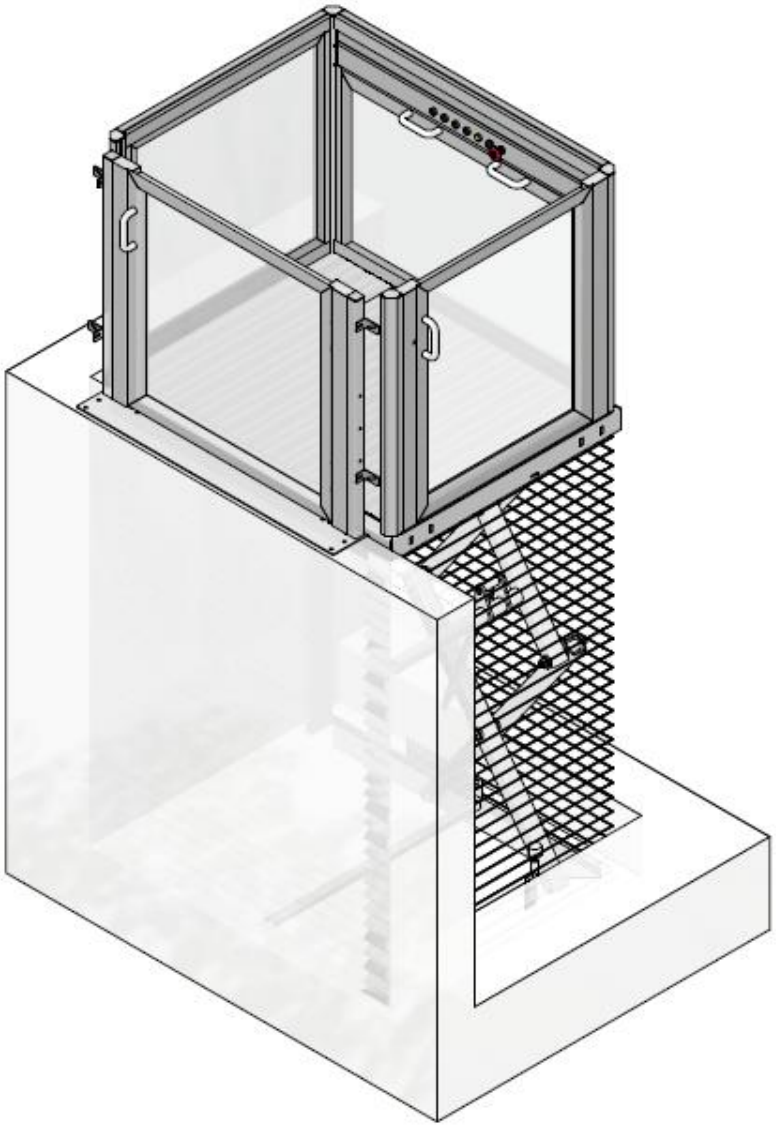


OTHER EXIT OPTIONS

Entrance – Exit on Adjacent Sides (90°)

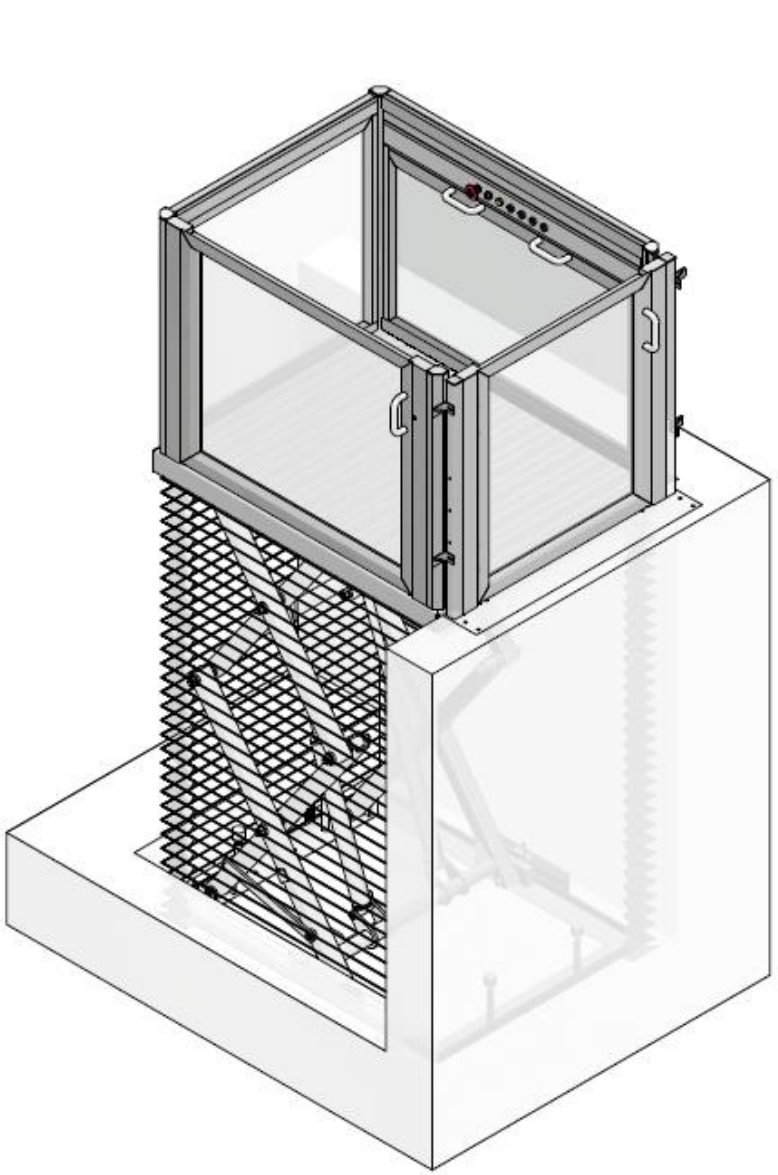
Entrance through the smaller side for both double and triple scissor lifts

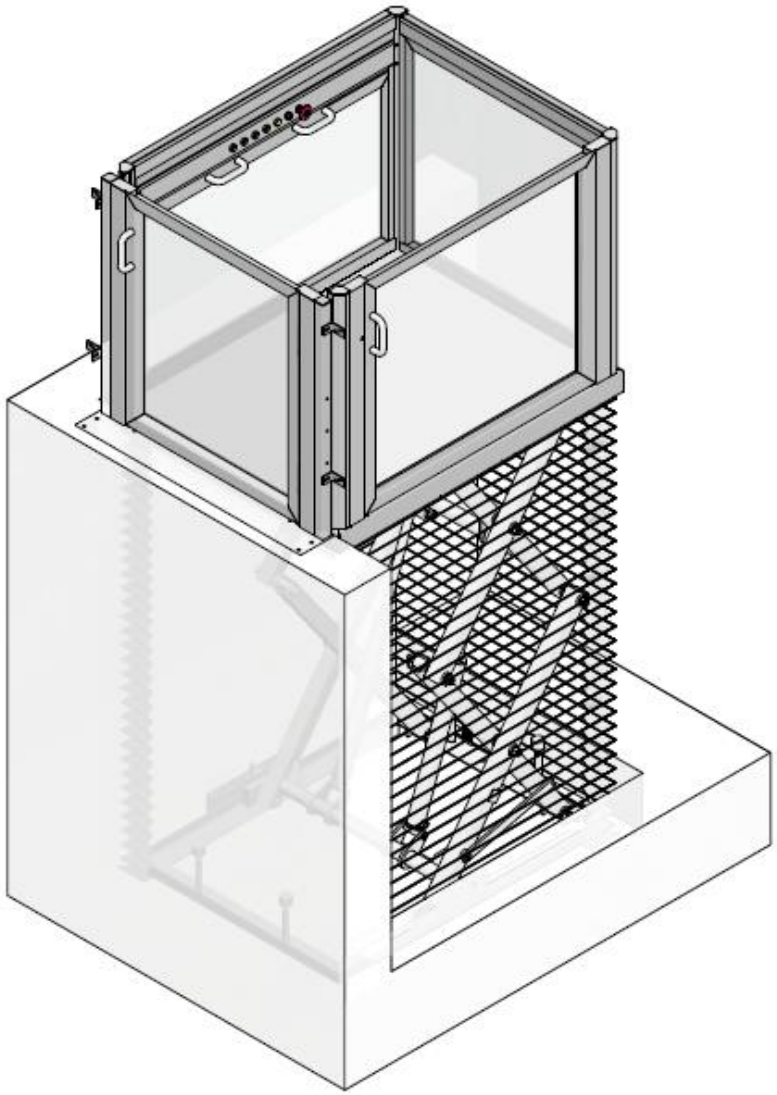




Entrance – Exit on Adjacent Sides (90°)

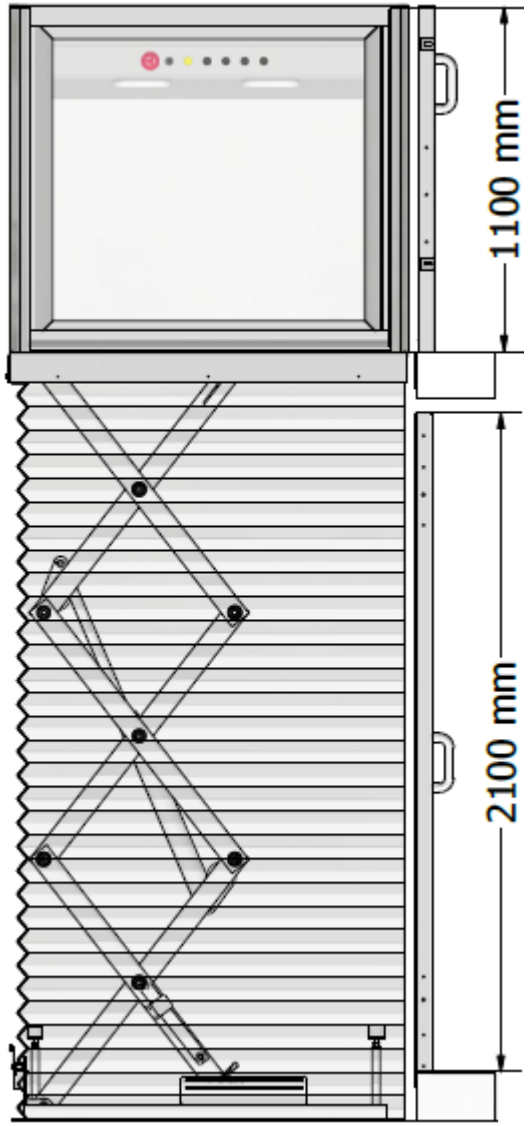
Entrance through the bigger side for both double and triple scissor lifts

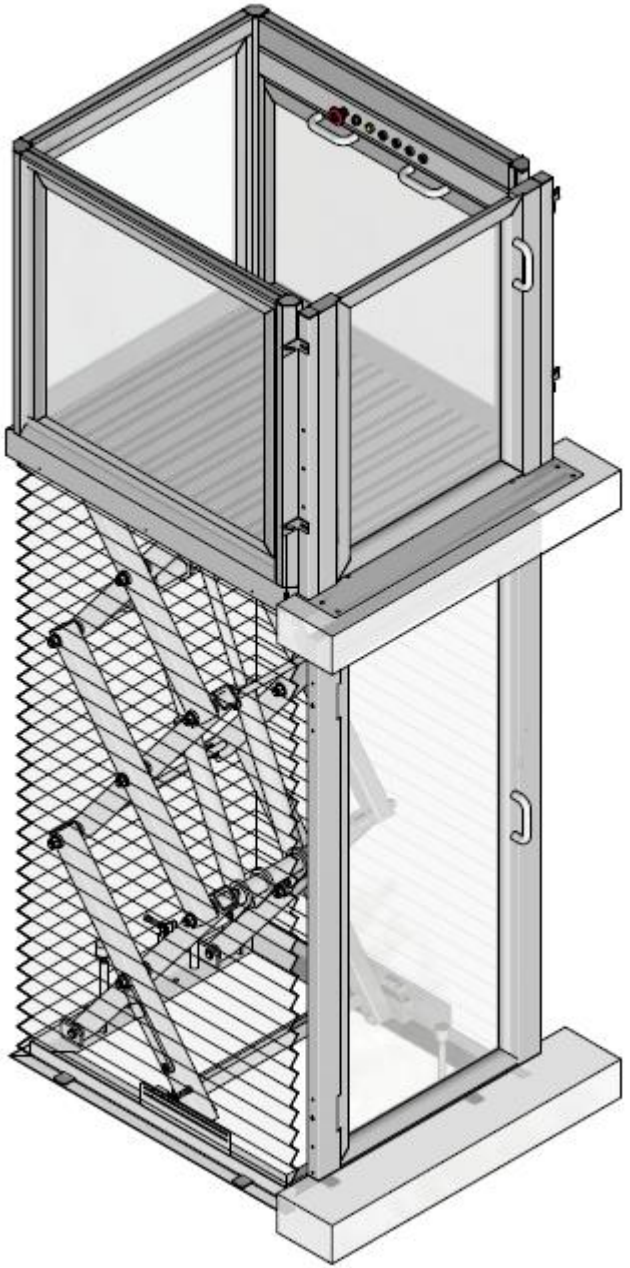




Entrance – Exit Through the Same Side (0º)

Only for triple scissor lifts and heigh travels





GUIDE RAILS

Guide rails are required **only for triple scissor lifts** to ensure smooth, stable, and precisely aligned movement, especially at greater lifting heights.

Installation

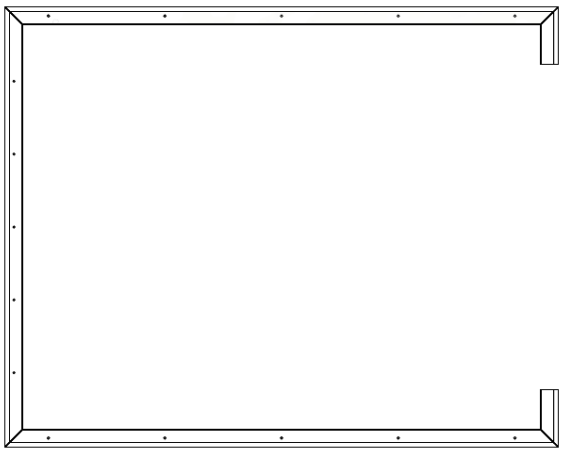
The installation process is simple, fast and hassle-free, requiring no on-site preparation.

BELLOW

It is a small component that plays a big role in **protection, safety, and maintenance.** Its shape is tailored to fit the specific installation area.

1. **Safety Protection**
    - Prevents individuals or objects from entering the hazardous area beneath the platform, reducing the risk of serious injury or crushing.
2. **Mechanical Protection**
    - Blocks dust, dirt, and debris from reaching sensitive components, ensuring smooth operation and longer equipment life.
3. **Weather Resistance** *(for outdoor lifts)*
    - Reduces the impact of rain and water splashes on hydraulic and mechanical systems.
4. **Visual Barrier**
    - Covers the scissor mechanism and the hard-to-clean space beneath the platform, enhancing the aesthetic appeal.

3 sides



2 sides

1 side

CONTROL SYSTEM – COP

- **Down Button (Black with Down Arrow)** – Activates downward movement of the platform. Operated by constant pressure (must be held down continuously).
- **Up Button (Black with Up Arrow)** – Activates upward movement of the platform. Also operated by constant pressure.
- **Emergency Stop (Red Mushroom Button)** – Immediately interrupts all lift operations. Must be rotated to reactivate the system. Ensures maximum safety in emergency situations.
- **Alarm Button (Yellow with Bell Symbol)** – Sounds an alert in case of emergency.
- **Key Switch (ON/OFF with Key Inserted)** – Used to activate or deactivate the control panel. Limits use to authorized personnel only.
- **Labels** – Clear and easy-to-read labels, using numbers, arrows or names in an international language to ensure user-friendly operation.

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.

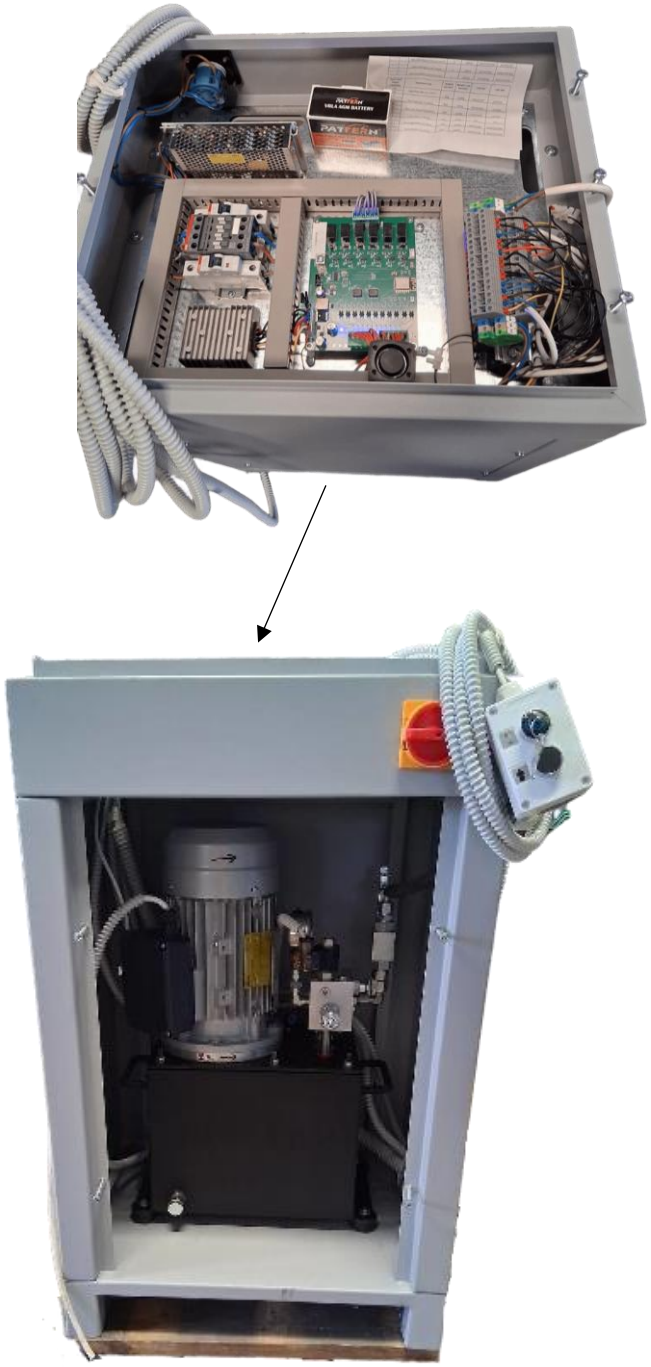
Control Panel

- **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 high-performance operation, and enables smooth, energy-efficient control of hydraulic processes.

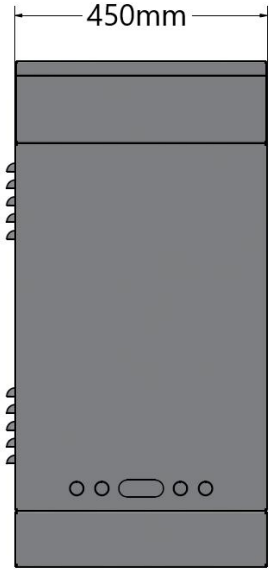
<u>The oil tank has a capacity of 30L and the max pressure is up to 80 -120 bar.</u>

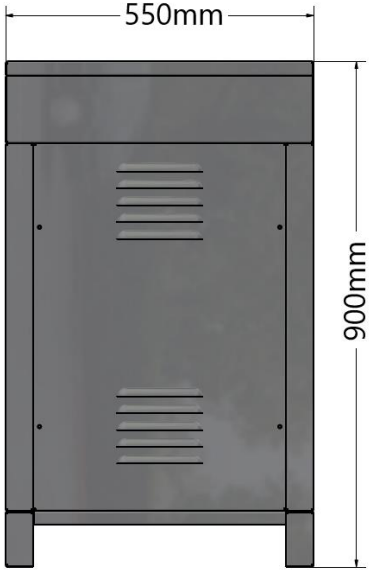


CABINET FOR THE CONTROL PANEL & HYDRAULIC UNIT

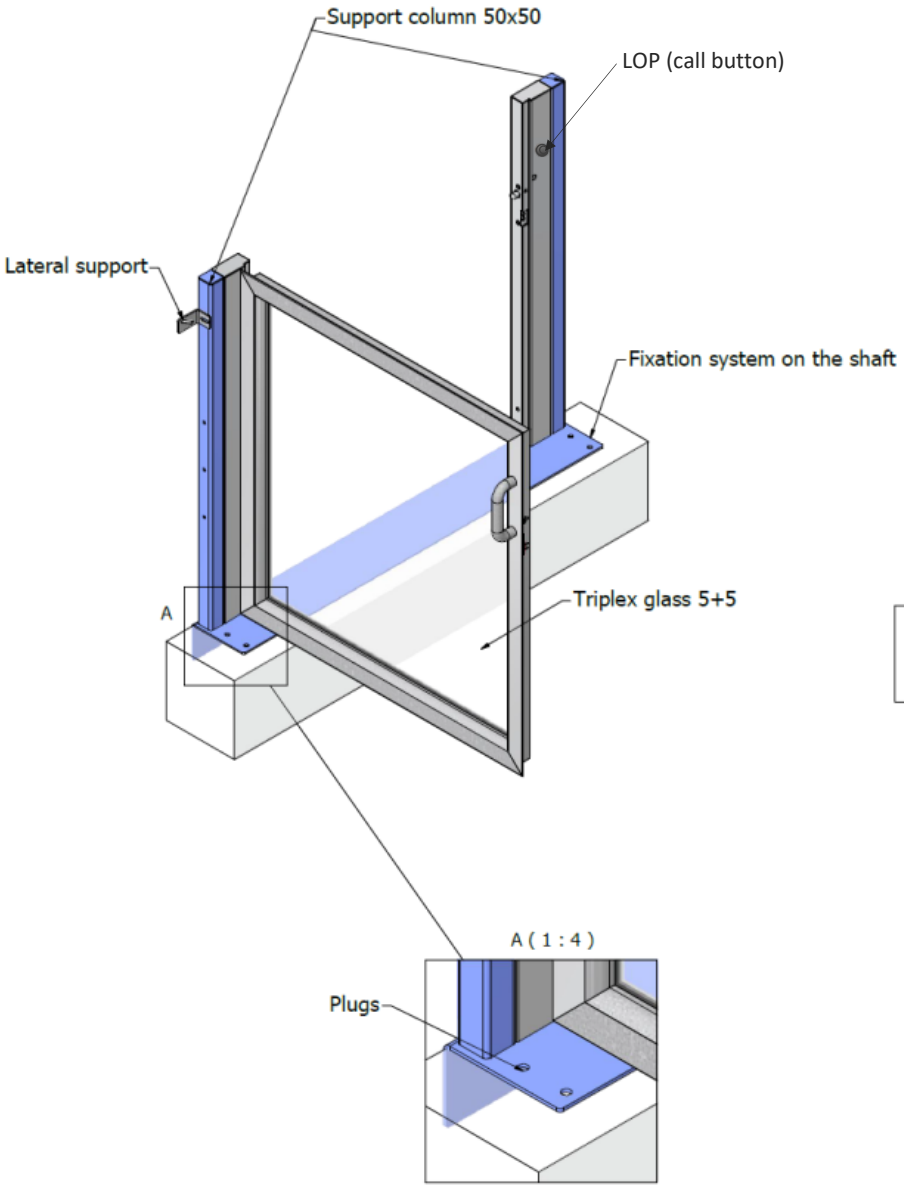
Space - Saving Design: Measuring at 900mm in height, 450mm in width and 550mm in depth, this cabinet fits seamlessly into tight spaces, making it ideal for installations with limited room.

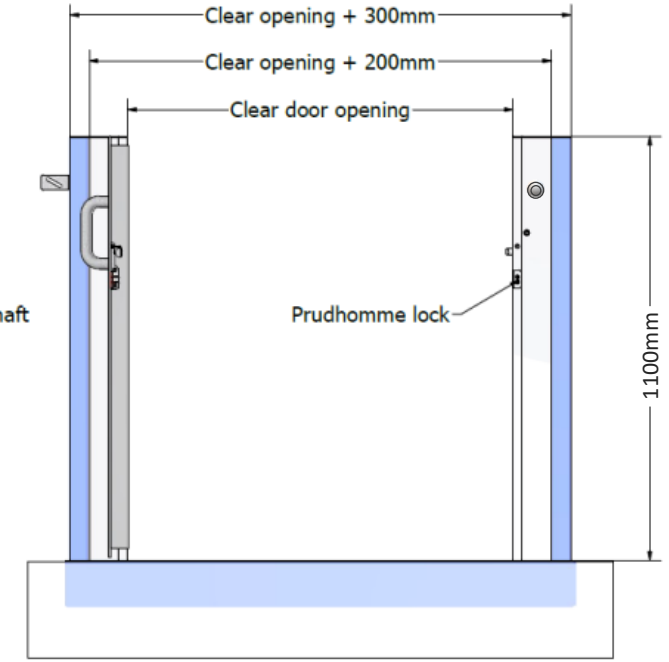
Durable Construction: Built with galvanized sheet metal panels and painted in RAL 7040, the cabinet offers corrosion and water resistance (IP54), ensuring long-term durability.

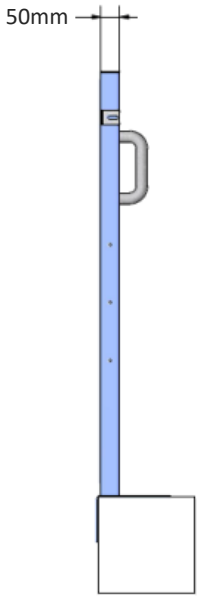




DOOR ON THE LEVEL (EXIT DOOR)







STANDARD DOOR DIMENSIONS			
Type	Clear width	Total width	Height
B	800mm	1100mm	1100mm
C	900mm	1200mm	1100mm