

Multilift CE

Vertical Platform Lift

Planning Guide

savaria

Applicable Codes:

EN81-41

PURPOSE OF THIS GUIDE

This guide assists architects, contractors, and lift professionals to incorporate the Multilift CE Vertical Platform Lift into a residential or public building design. The design and manufacture of the Multilift CE Vertical Platform Lift meets the requirements of the following codes and standards:

- EN81-41

We recommend that you contact your local authority having jurisdiction to ensure that you adhere to all local rules and regulations pertaining to vertical platform lifts.

IMPORTANT NOTICE

This Planning Guide provides nominal dimensions and specifications useful for the initial planning of a vertical platform lift project. Dimensions and specifications are subject to change without notice due to continually evolving code and product applications.

Before beginning actual construction, please consult Savaria or the authorized Savaria dealer in your area to ensure you receive your site-specific installation drawings with the dimensions and specifications for your project.

Visit our website (www.garaventalift.com) for the most recent Multilift drawings and dimensions.

HARSH INDOOR AND OUTDOOR ENVIRONMENT

Weather or exposure to harsh environments such as prolonged exposure to water, salt air or chlorine will lead to premature failure of mechanical / electrical components.

(Indoor Spa's and Pools Or the close proximity to these in an outdoor situation) can lead to these premature failures.

Regular maintenance plays a key roll in extending the life expectancy of such components and the safe operation of your product.

Inspect all electrical switches (landing and underpan switches), buttons, door lock contacts, relays, and key switches **every 3 months**. When an item exhibits any trace of corrosion, replace it as a preventive measure.

Additional Items to be inspected / treated every 3 months.

- Battery terminals
- Chains
- All hardware
- Zinc, aluminum, and copper surfaces

Recommendations and maintenance schedules must be followed and documented; failure to do so will result in the products warranty being declared null and void.

How to use this guide

1. Determine your client's intended use of the lift.
2. Determine the local code requirements.
3. Determine the site installation parameters.
4. Determine the cab type and hoistway size requirements.
5. Plan for electrical requirements.

Revision History

- November 8, 2024 - Initial release
- March 28, 2025 - Added Type 3 and 4 cabs, added 900 x 1000 gate details, updated graphic on page 4'
- April 14, 2025 - Updated information on page 6, added packaging specifications on page 32
- May 16, 2025 - Revised information on pages 6, 13, and 36, added site preparation checklist on page 7, updated load diagrams on page 8, added L-bracket and Heavy Duty L-bracket drawings on page 17, updated load table on page 18
- September 22, 2025, - Revised drawings throughout
- November 25, 2025 - Updated drawings on page 21, Revised document format
- May 11, 2026 - Revised drawings on pages 13, 25-29
- June 30, 2026 - Revised specifications on page 8

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Table of Contents

Product Elements Diagram 4
- Lift Components 4
- Drive Tower Components 5
- COP and Hall Call Options 6

Technical Specification 8

Site Preparation Checklist 9
- Site Construction Details 10
- Landing Gate/Door Details 12
- Tower Support Brackets 14
- Tower Support Chart 14
- Load Calculations 20

Cab Types 20

Drawings 22

Packaging Specifications for Shipments 35

Provision By Others 36

Product Element Design

The Multilift CE Vertical Platform Lift is designed to provide easy access from one landing to another. The versatile design of this lift can be adapted to most architectural requirements and its rugged construction allows for outdoor or indoor use. It is an ideal deck lift for home use and is also approved for certain commercial accessibility projects as well. The Multilift, with its ACME screw drive system, provides safe and reliable operation.

Lift components

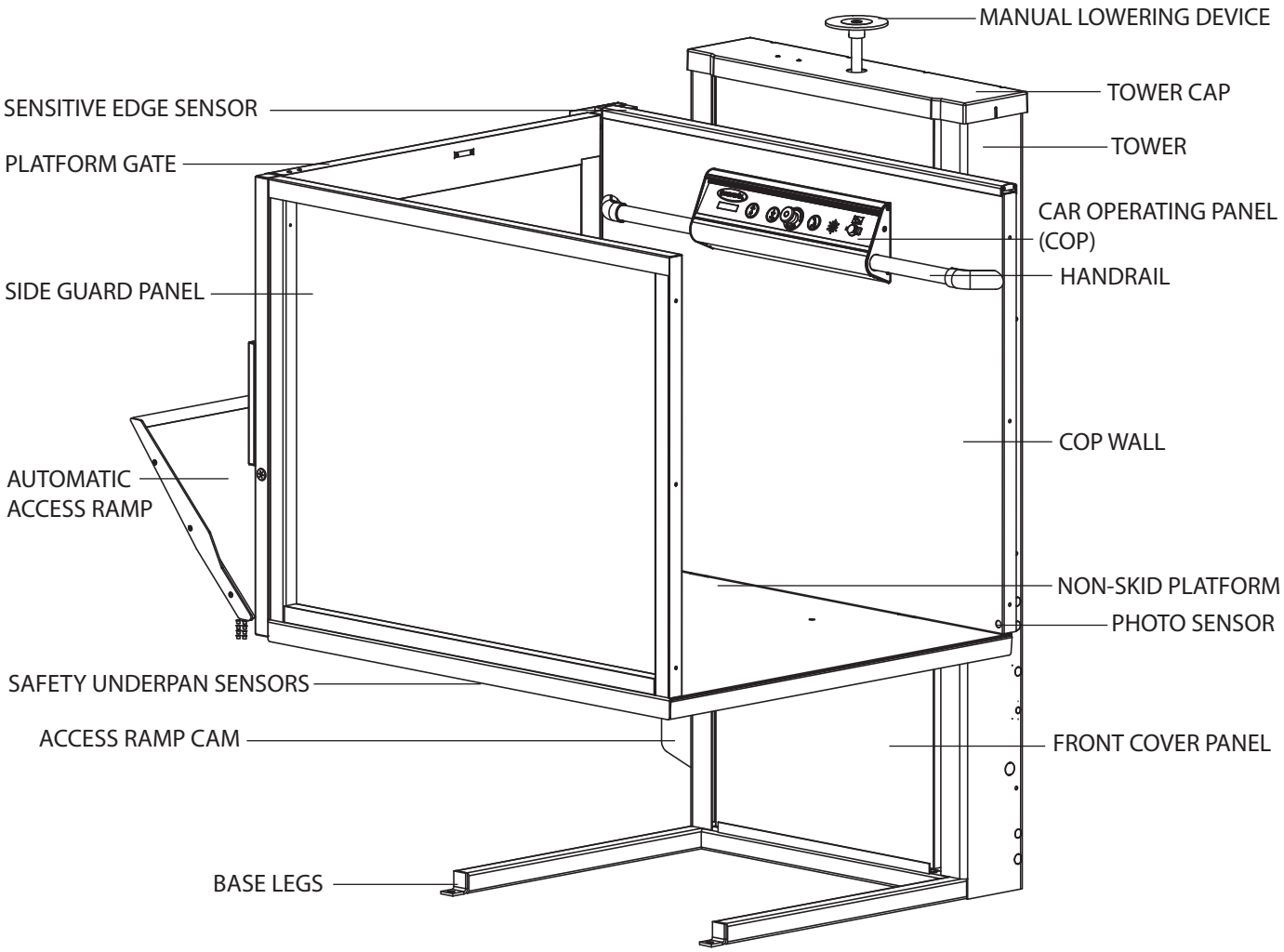


Figure 1: Assembly of Multilift

Drive tower components

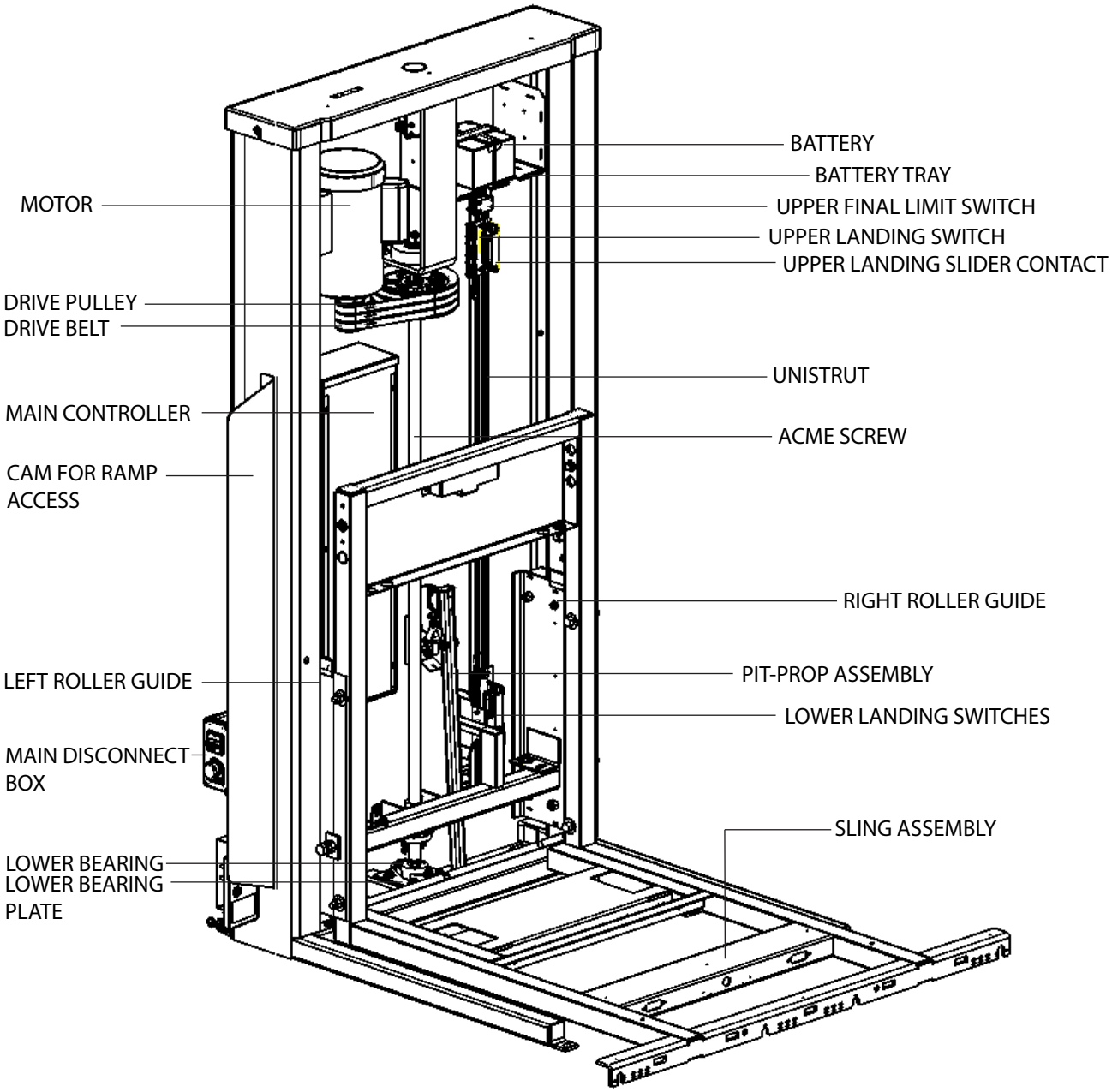


Figure 2: Drive tower

COP and Hall Call Options

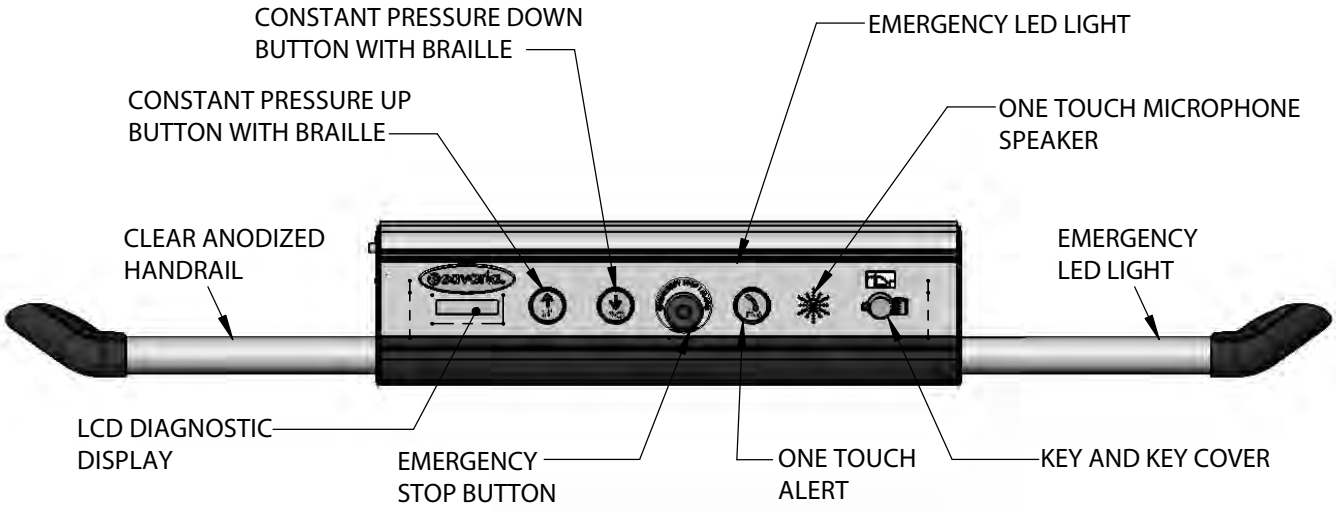


Figure 3: COP Handrail

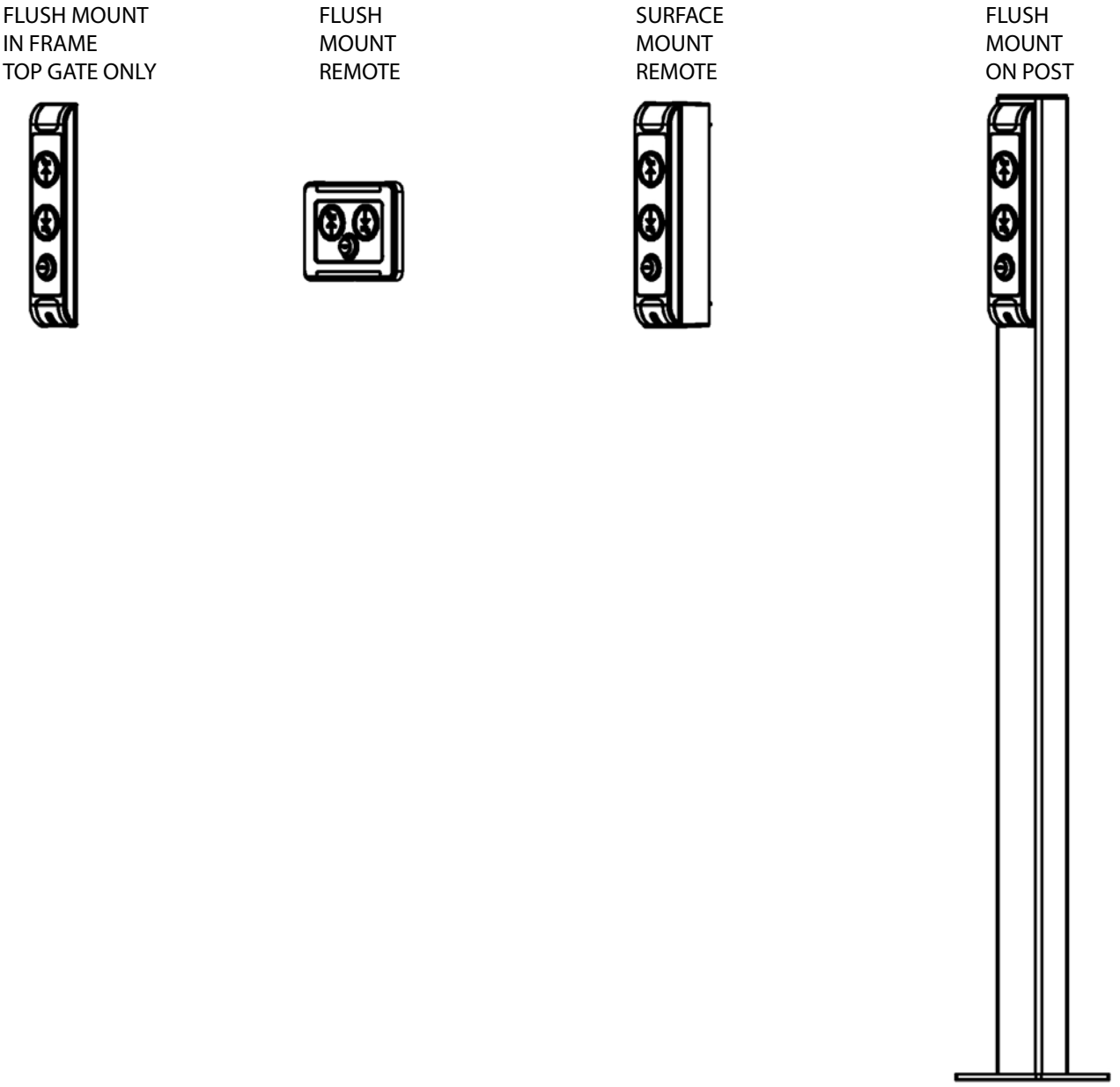


Figure 4: Hall Call options

Technical Specifications

Specification	Specification Data
Applications	Commercial (Outdoor), Residential (Outdoor)
Noise level (for typical installation)	65.9 dBA (up direction); 65.0 dBA (down direction) Measured at a height of 1m, distance of 1m, in front of the motor with all panels on
Daily cycle	Normal: 10 Heavy: 25 Excessive: 40 Maximum starts in 1 hour on standard installation: 10 NOTE: Please consult your Sales Representative if there a chance you may exceed these amounts.
Cab types/sizes	Type 2 - 1100mm x 1400 mm, 900mm x 1400 mm Type 3 & 4 - 1100mm x 1400 mm **NOTE:** Type 2, 1100mm x 1400 mm platform is self-supporting up to a travel of 1000 mm Travel above 1000 mm will require support **NOTE:** Type 2, 900 mm x 1400 mm platform is self-supporting up to a travel of 1219 mm. Travel above 1219 mm will require support **NOTE:** Type 3 & 4, 1100mm x 1400 mm platform will require structural support
Side guard panels	1100 mm side guard panels on platform
Cab access	Front/rear access - standard (platform Type 2) 90 degree access - optional (platform type 3 and 4)
Power supply	230VAC, 16A, 50 Hz, single phase (must be a dedicated electrical line, see page 19 for details)
Drive system	Acme screw and back-up nut Standard: 1.5 hp (1.12 Kw) motor, 220 VAC model
Control system	Micro processor controller
Finish	Silver Moon (RAL 7047) electrostatic powder coat paint on all steel surfaces

Specification	Specification Data
Features	Lift Pit Prop LCD Diagnostic Display Clear Anodized Sensitive Edge Aluminum handrail Emergency manual lowering/raising device Capacity Overload Sensor (Load Cell) Protective Beam Sensor Emergency stop button Non-skid platform surface Continuous Pressure Buttons with Braille and In-Use Light Underpan sensors One Touch Alert (phone)* **For No Phone Option, a signed waiver is required to confirm that two-way emergency communication will be provided by others*.
Options	Hall Call Post with Flush In Frame Hall Call Call/send or Call only stations at landing 12:1 Fixed ramp Automatic access ramp 610 mm Automatic Gate Operators Optional Tower Support Filler panel for top gate (Type 3/4)

Site Preparation Checklist

Please validate that the installation site will accommodate the following:

Verification	
Power or junction box is within 2 meters of installation location.	
Finished construction is within the dimensions of the lift ordered.	
The solid base is level, extended far enough for the fold up ramp and able to shed water if exposed to rain.	
Access to site - lift to be moved on a pallet jack or other rolling cart. For more info see packaging specification for shipment in planning guide.	
Fascia on top landing side - smooth flush and plumb from base to top landing.	
Structural support for top landing gate. To be anchored into threshold and supported on each side of the gate.	
Enough space to have 100mm running clearance on all non-entrance sides of the lift.	
Tower support brackets ordered if required. See tower support chart on page 12.	
Suitable structure to attach support bracket.	
Clear space to swing top landing gate and platform gate.	
Hall call station location - suitable mounting surface and routing for wire to lift tower.	
Suitable lightning to ensure passenger safety and proper use of the lift.	
In case of pit there needs to be a drainage hole	

Site construction details

The self-supporting base must be able to support the tabulated values per Figure 3 and must be anchored to a concrete slab (or floor) per Figure 4. Make sure the slab (floor) surface is level.

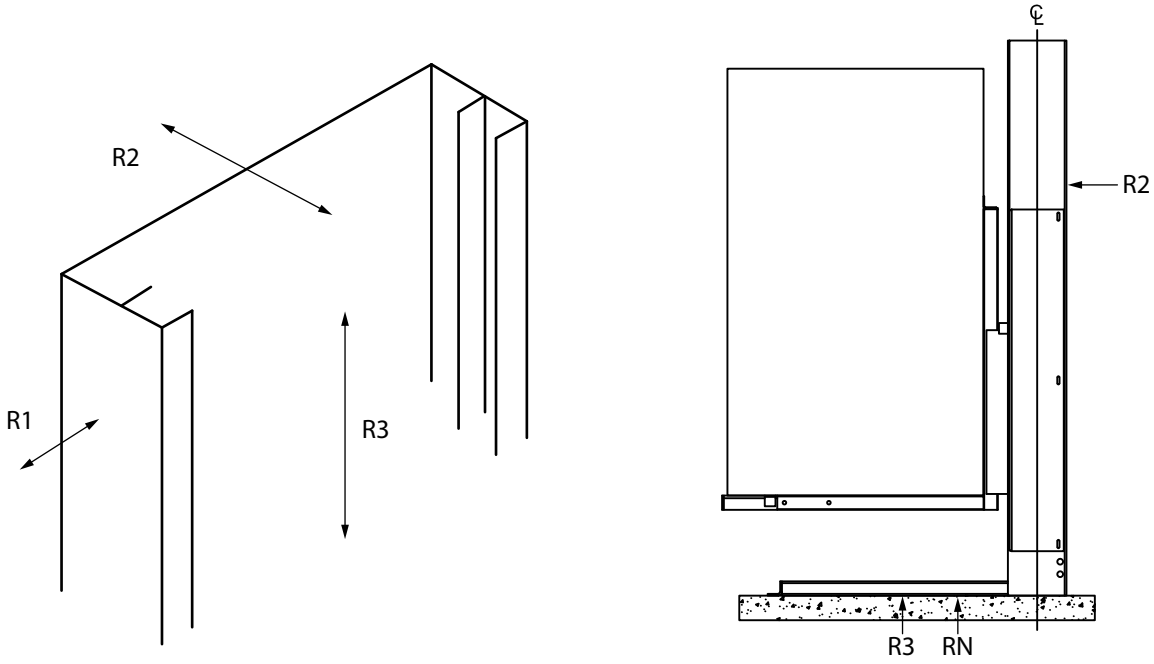


Figure 5: Floor loading diagram

FLOOR REACTION FORCE		
Type	**Description**	**Load**
R1	Lateral Force	250 lbf [1,112 kN]
R2	Pull Out Force	449 lbf [1,998 kN]
R3	Equipment (Dead) Load	1397 lbf [6,212 kN]
RN	Impact Force	1693 lbf [7,529 kN]

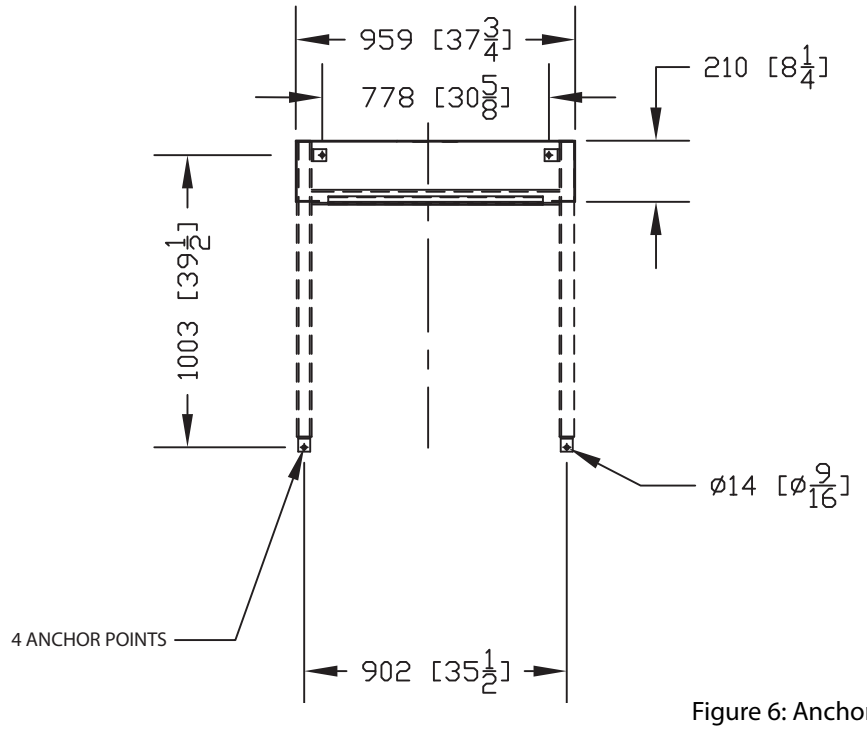


Figure 6: Anchor location on tower base

Figure 7 illustrates the site construction details for a typical outdoor application.

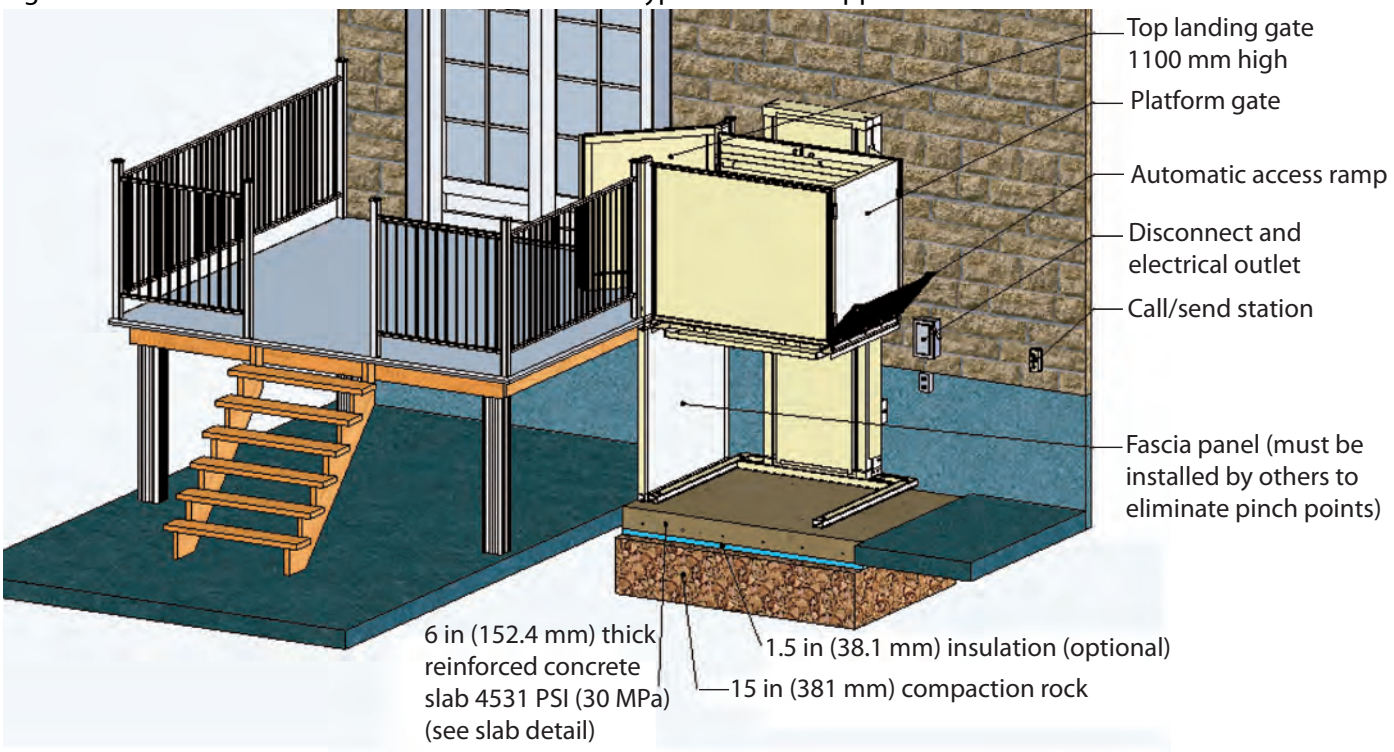


Figure 7: Sample unenclosed outdoor application

Outdoor applications need a strong and stable surface that will not move throughout the years. For this reason, it is essential, when the temperature can get below the freezing point, to insert an insulate sheet between the concrete slab and the compaction rock. Figure 6 illustrates the concrete slab detail for a typical outdoor application.

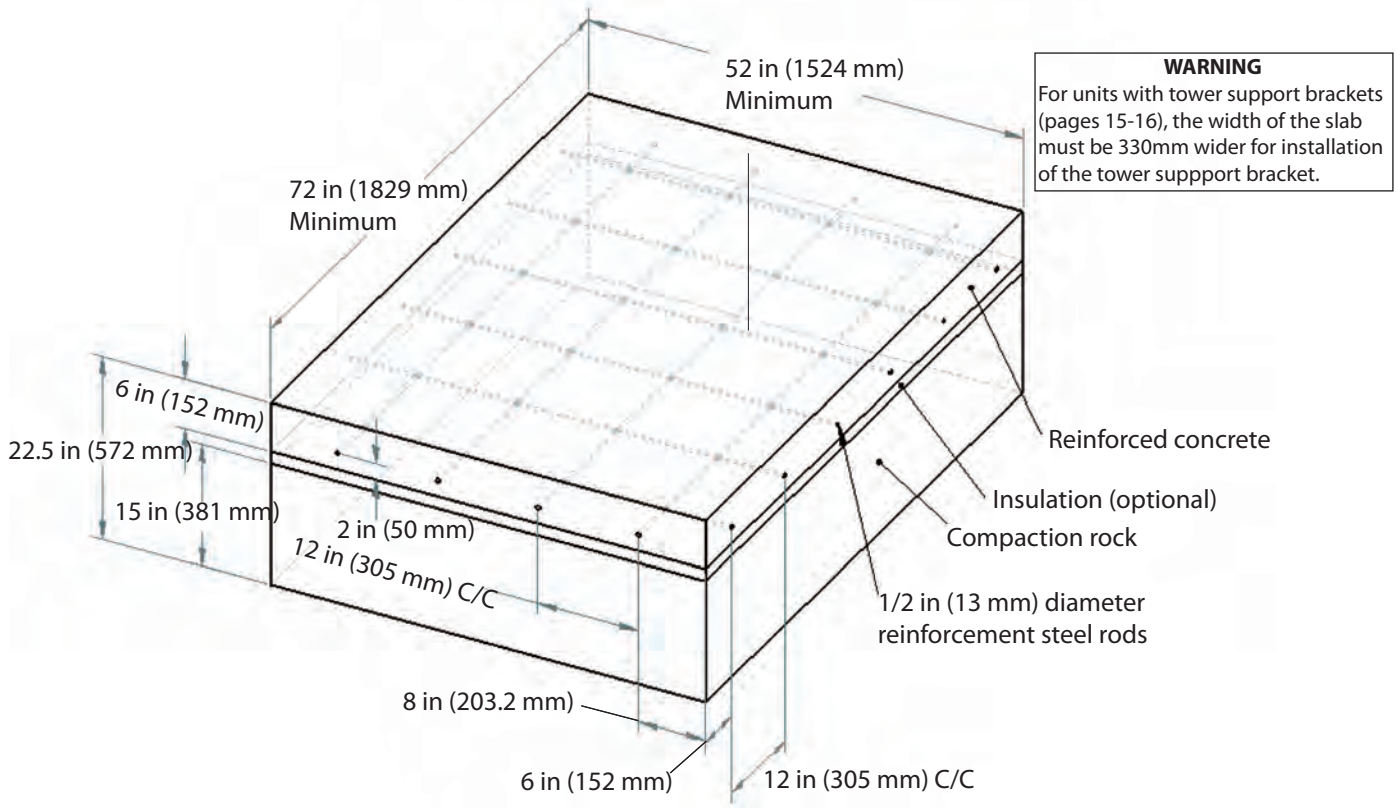


Figure 8: Concrete slab detail

Landing gate/door details

Landing gate/door details are specific to each job site. Be sure to refer to your site-specific installation drawings.

There are two options (Figure 9) that can be used when preparing for installation of the gate (or door with sill angle). Refer to the Installation Guide for details on installing the landing gate or door.

- Option 1 – Notch out the landing so that the gate angle bracket (or door sill angle) is flush with the vertical landing surface.
- Option 2 – Install a 6 mm fascia panel to fill in the gap in the vertical landing surface from underneath the gate angle bracket (or door sill angle) down to the floor/ground. If your site has a hoistway or pit, be sure to add 6 mm to those dimensions to account for the 6 mm fascia panel.

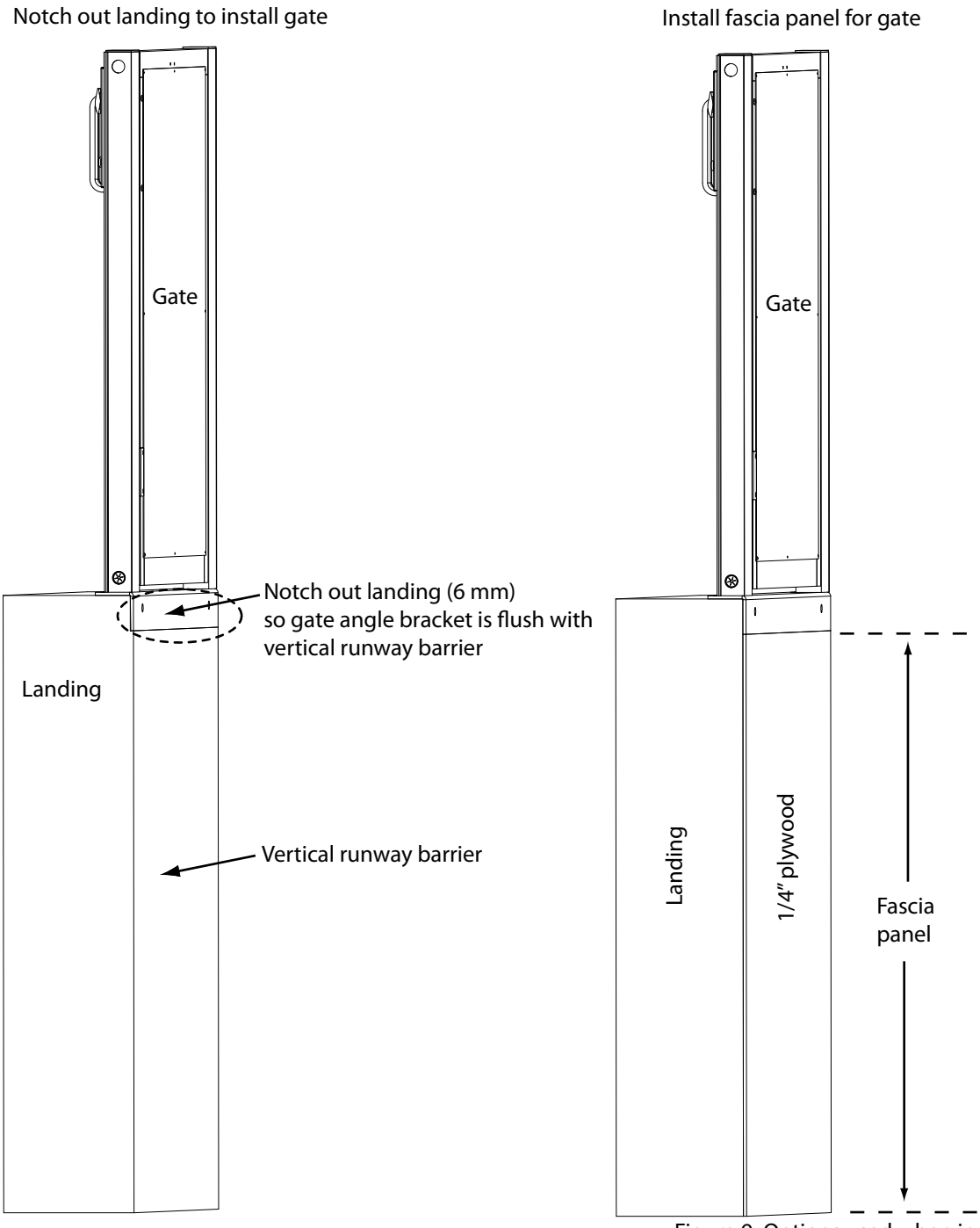


Figure 9: Options used when installing a gate

An optional filler panel may be used as a support for the top landing gate as shown on the images below (available for Type-3 & Typer-4 cabs).

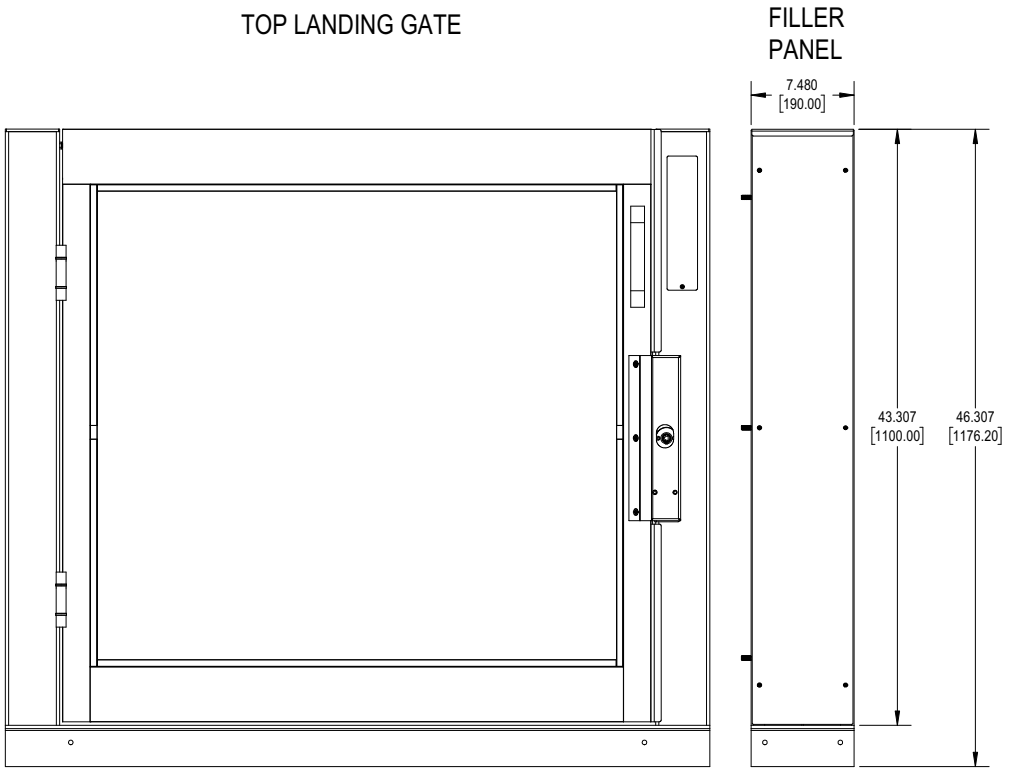


Figure 10: Gate and Filler Panel

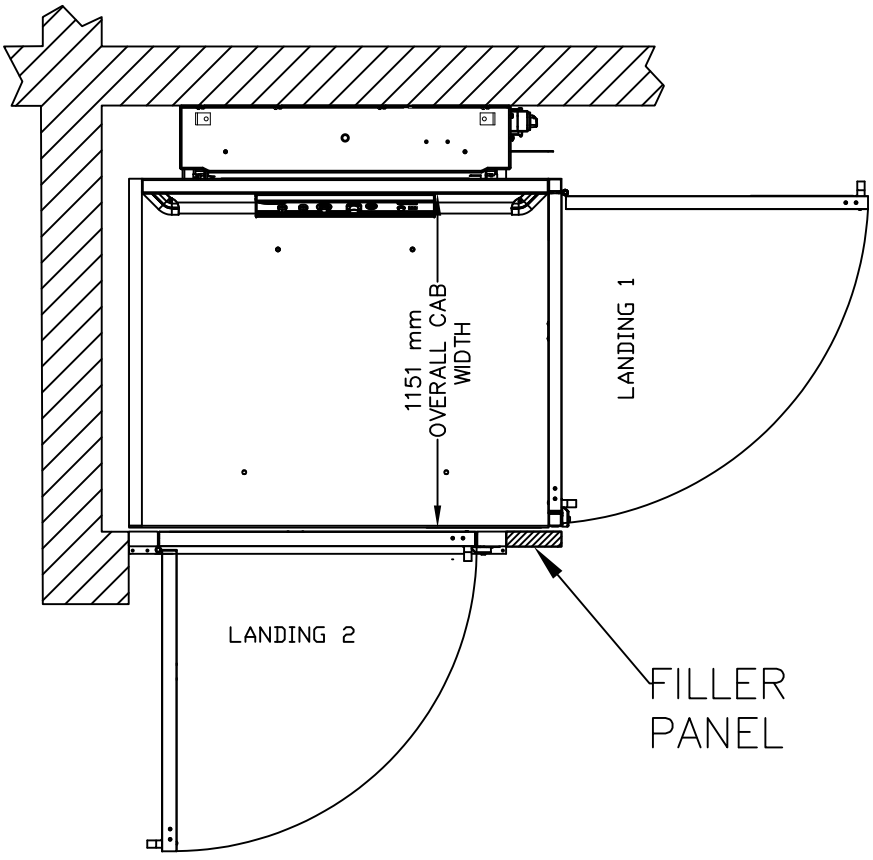


Figure 11: Plan View with Gate and Filler

Tower support brackets

For applications without a supporting wall, there are additional support brackets available that must be installed behind the tower for extra support. The below plan view illustrates how the Super Bracket is installed behind the tower. The table below provides a recommendation on which bracket support is applicable based on cab types and pages 14 to 18 provides the bracket specifications.

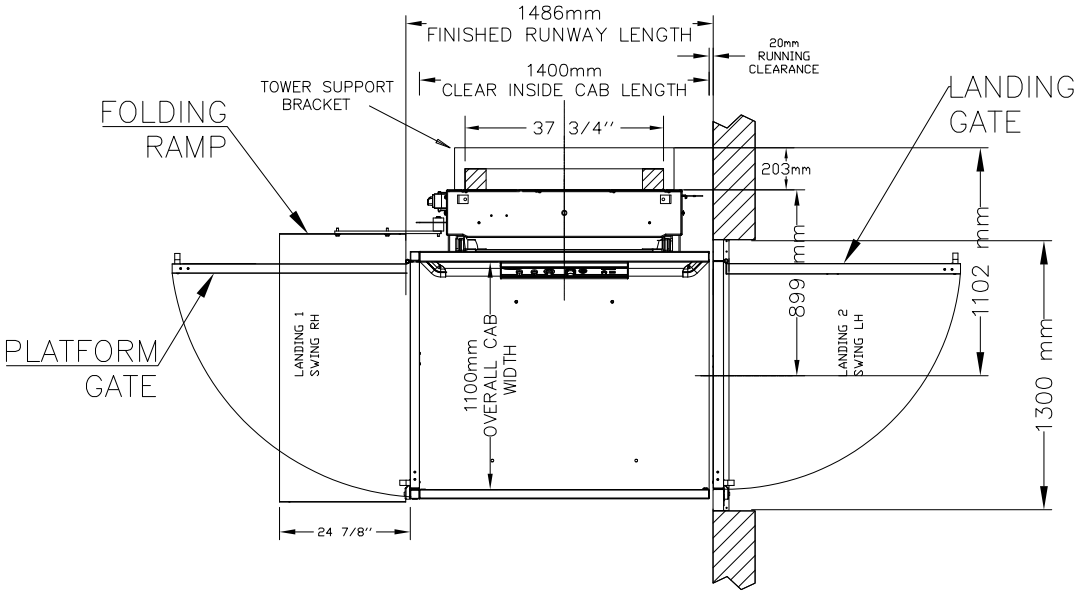


Figure 12: Tower support super bracket

Tower Support Chart

Recommended Support (*additional to floor anchor)						
Type	**Scenario**	**Wall Mount**	**L Support (Landing face mounted) (Page 17)**	**Heavy duty L Support (Landing sill and face mounted) (Page 18-19)**	**Basic Stabilizer (Face mounted, travel below 1m only) (Page 19)**	**Super Bracket (anchored to the floor) (Page 15-16)**
2L or 2R	Structural wall on side A or C		✓	✓	✓	✓
	Structural wall behind Mast/Tower	✓				
	No structural wall around					✓
3 or 4	Structural wall on side A or C		✓	✓		✓
	Structural wall behind Mast/Tower	✓				
	No structural wall around					✓

NOTE: These recommendation are based on a level and secured base complying with the requirements on page 10. Any deviations in these requirements may require alternative supports. Please review code for deflection requirements in order to add the appropriate supports for the lift.

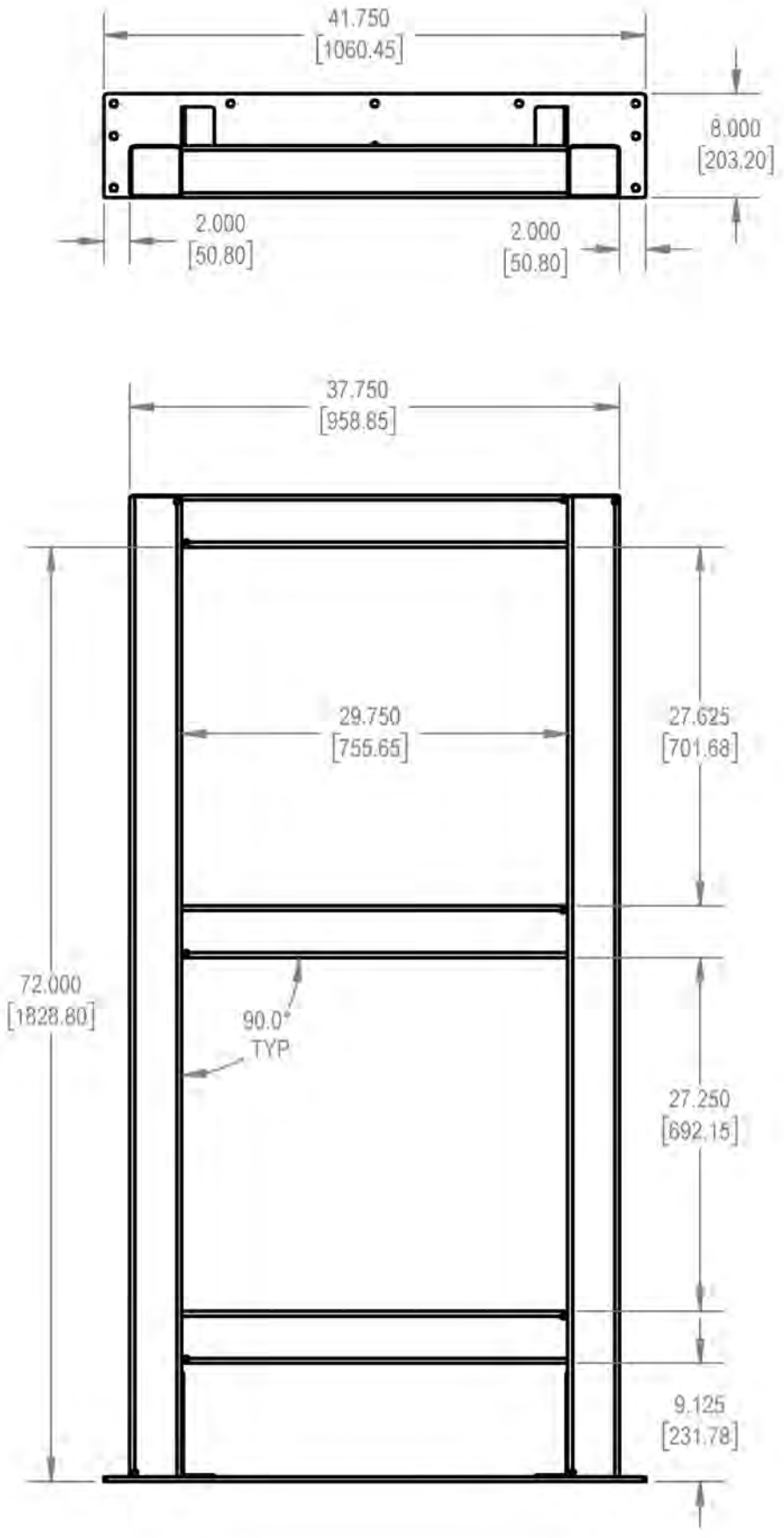


Figure 13: Tower support bracket (low power)

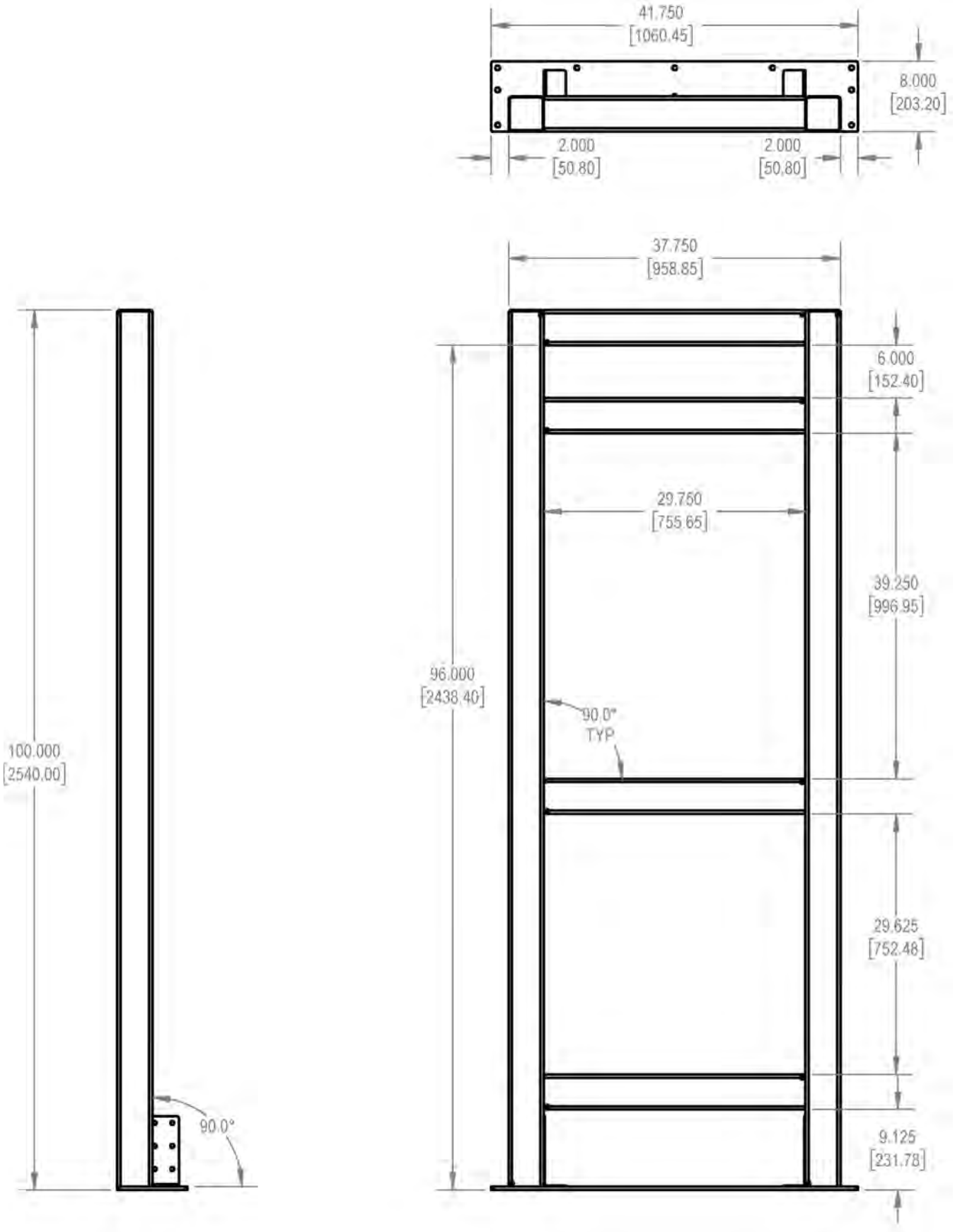


Figure 14: Tower support bracket (tall tower)

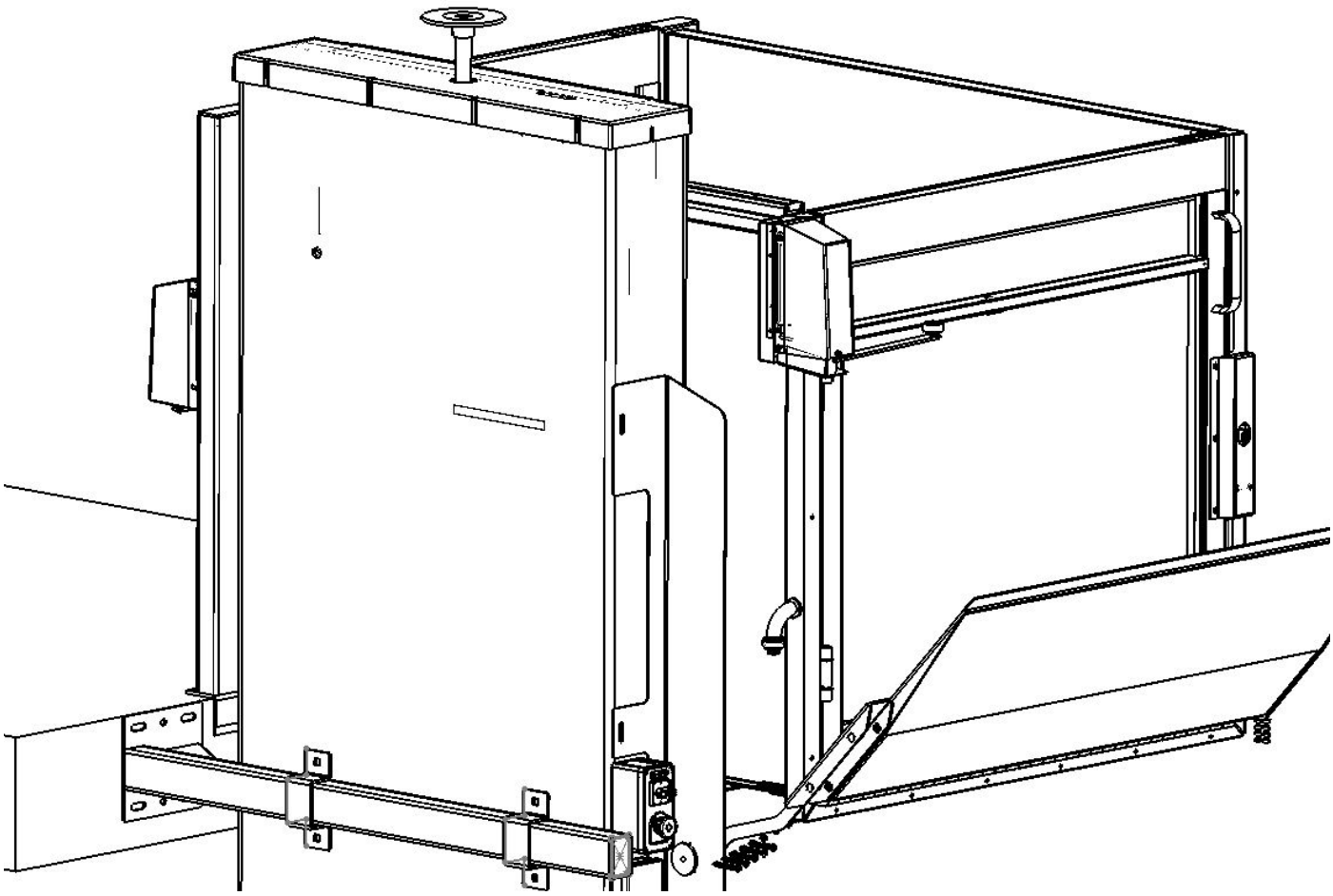
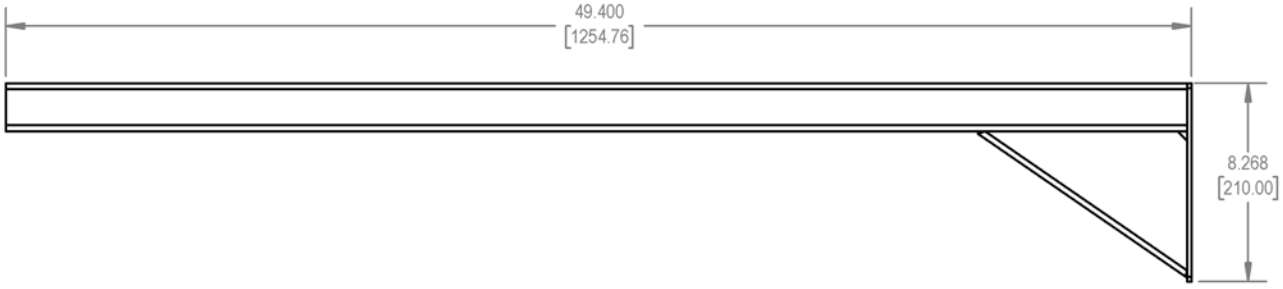


Figure 15: L-Support bracket tower view



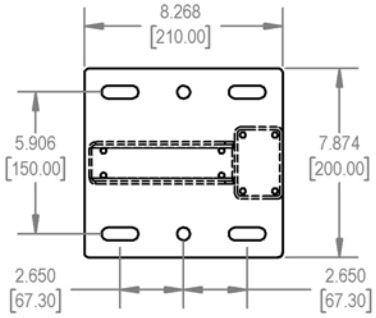


Figure 16: L-Support Bracket measurements

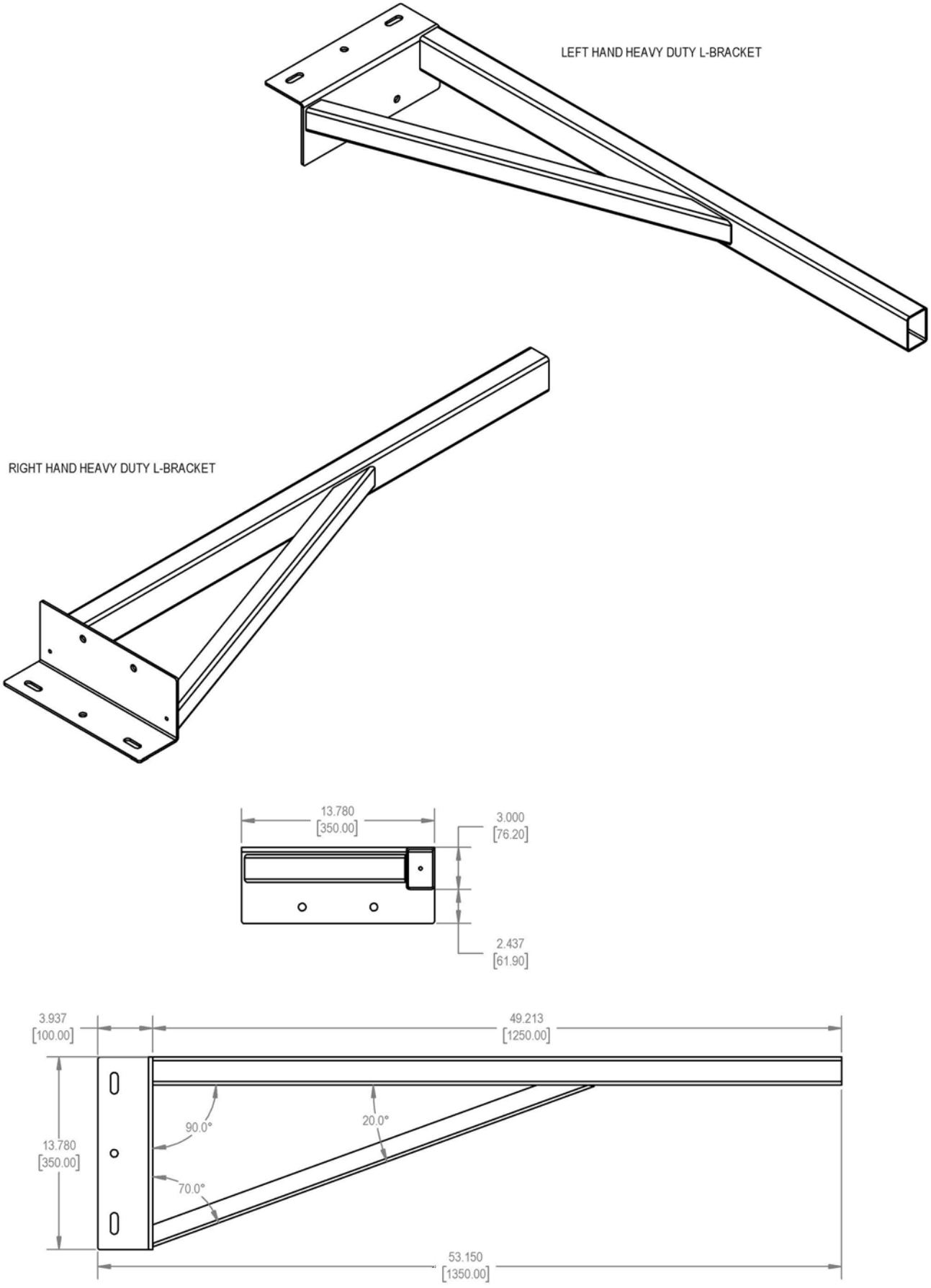


Figure 17: Heavy Duty L-Support bracket

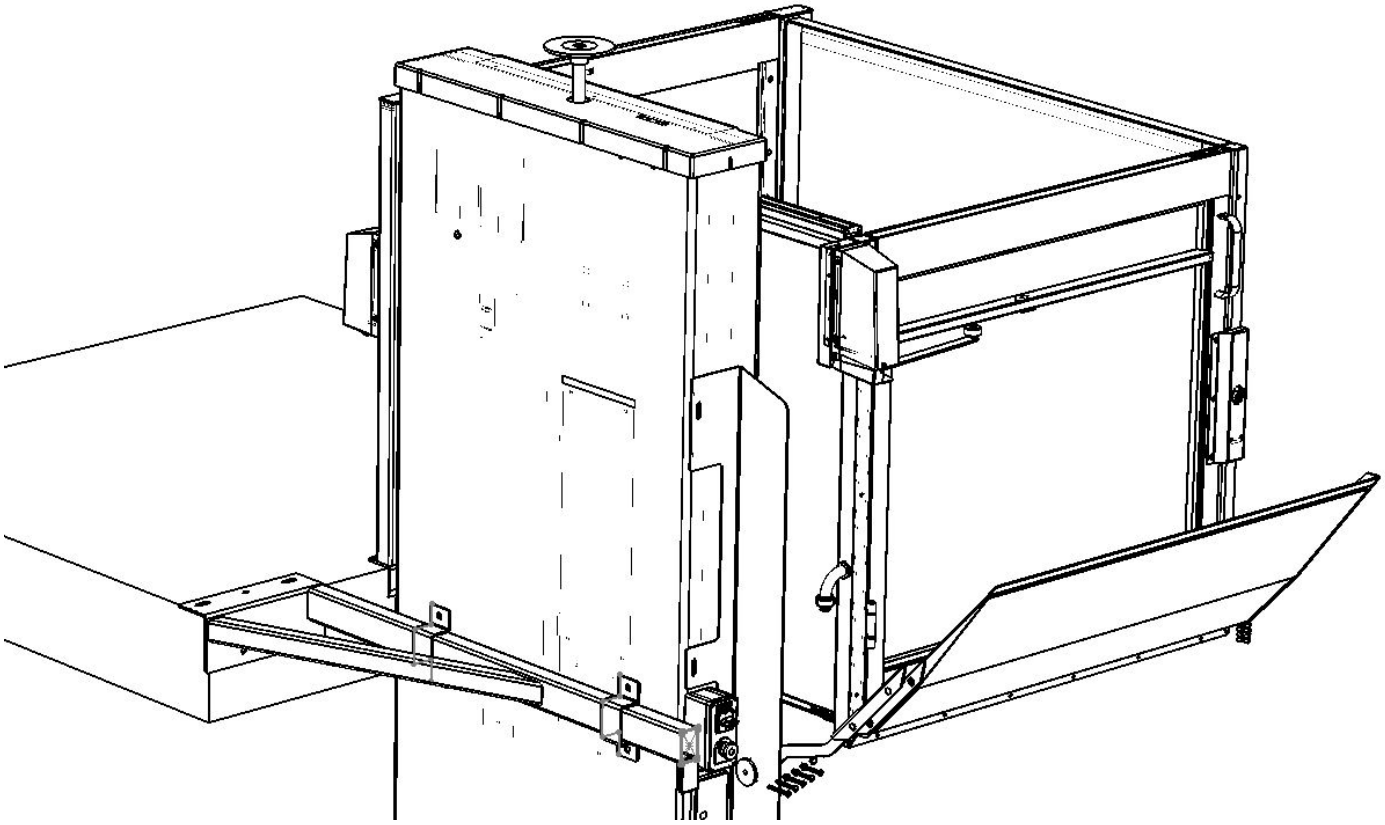


Figure 18: Heavy Duty L-Support bracket samples

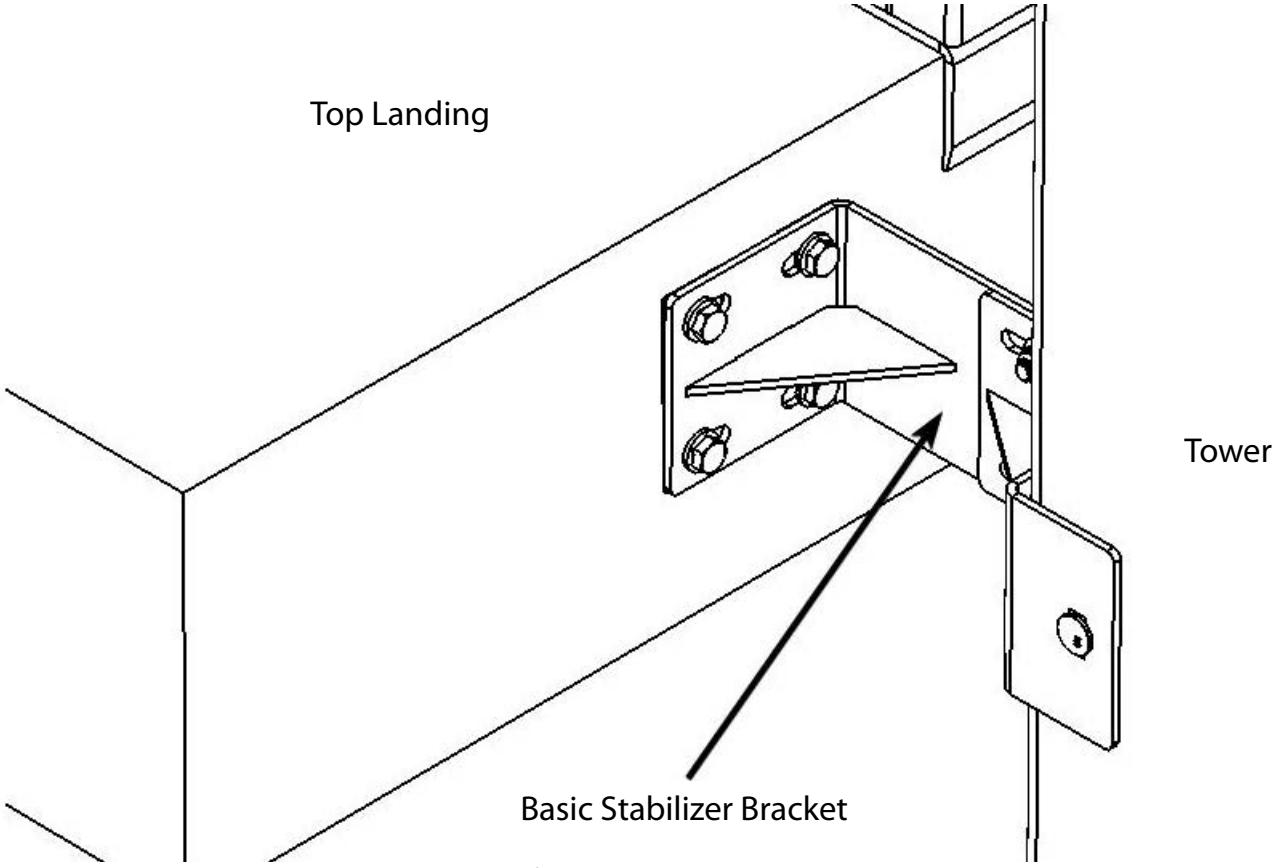


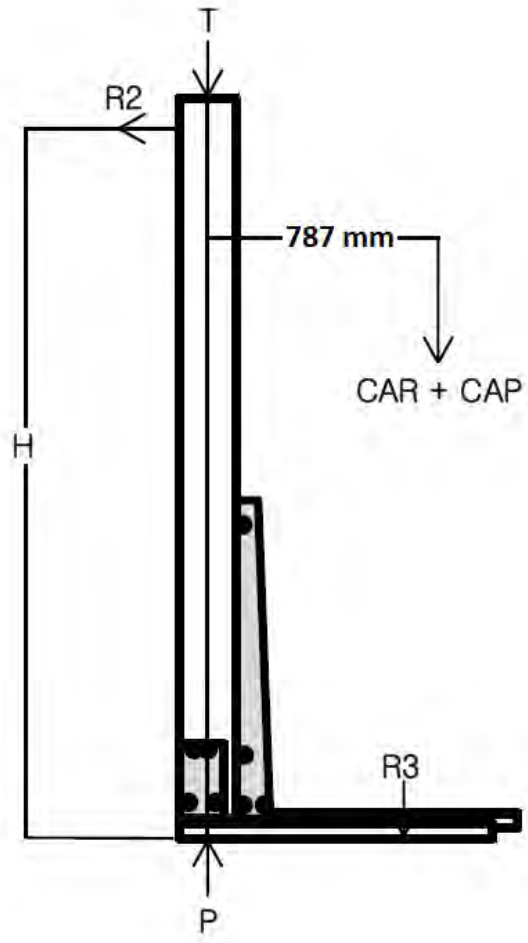
Figure 19: Basic Stabilizer Bracket (Only available for type-2 cabs 1100 mm x 1400 mm, with travel under 1000 mm and 900 mm x 1400 mm platform with travel under 1219 mm

Load Calculations

SAVARIA Multilift CE

Vertical Platform Lift Anchoring Loads (worst case scenario)							
1100mm x 1400mm Platform, Screw Drive, Hoistway Application					No Safety Factor		
Lift Model (mm)	Height H (mm)	MAX Tower Weight (Kg)	MAX Car Weight (Kg)	MAX Capacity CAP (Kg)	Pit Dead Load P (Kg)	Estimated Impact Load R3 (kN)	Wall Attachment each side of tower (R2 (kN)
1219	1883	300	254	385	939	7.53	2
1829	2495	380	254	385	1019	7.53	2

N.B.
Calculations do not include forces due to wind, seismic loading, any environmental loading and forces due to acceleration.
A minimum Safety Factor of 4 is recommended; check local code requirements or building special requirements.



Cab Types

Type 2 cab (standard)

For type 2 cabs, entry and exit are available from both ends of the platform.

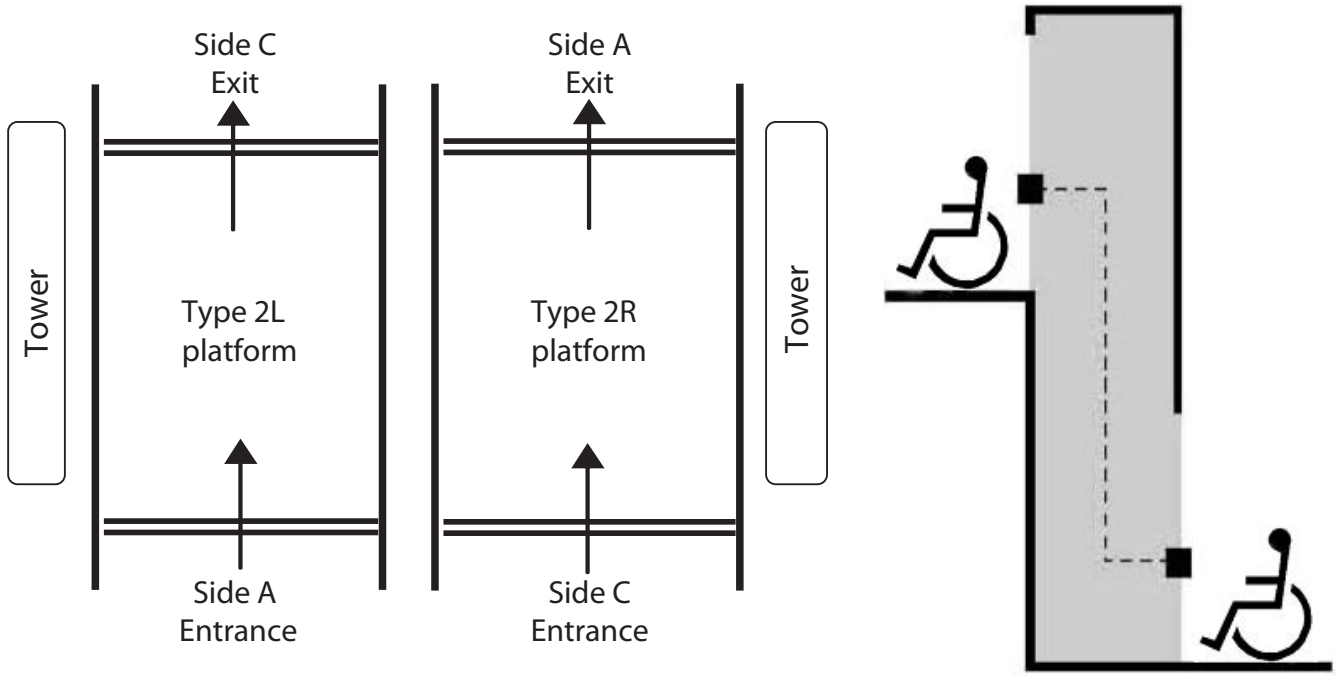


Figure 20: Type 2

Type 3 and 4 cab (optional)

For type 3 and 4 cabs, entry and exit are available from one end and one side of the platform.

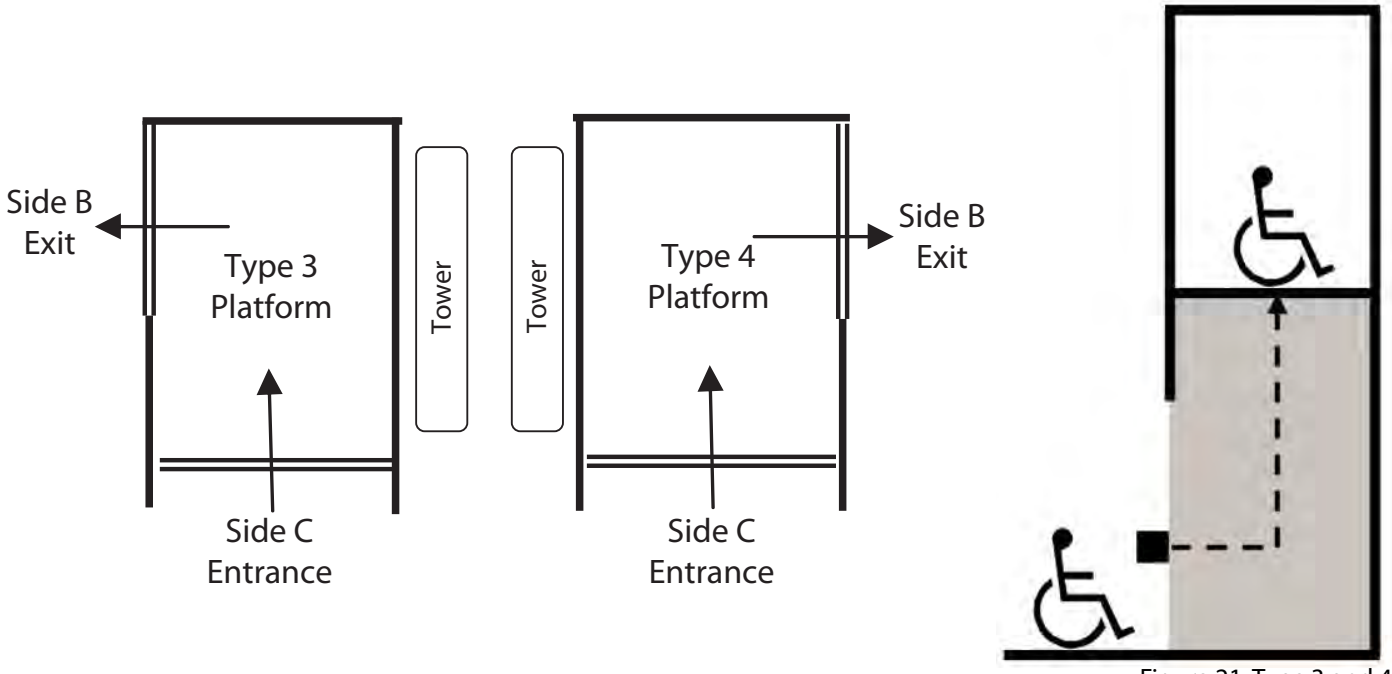


Figure 21: Type 3 and 4

Drawings

The next several pages provide various Multilift drawings. Always refer to your installation drawings for details specific to your site.

Elevation and plan view drawings (for the different cab types and sizes):

- Type 2 with platform gate – 1100 mm x 1400 mm, 900 mm x 1400 mm
- Type 3 with platform gate – 1100 mm x 1400 mm
- Type 4 with platform gate – 1100 mm x 1400 mm

NOTE: Type 2 1100 mm x 1400 mm platform is self-supporting up to a travel of 1000 mm. Travel above 1000 mm will require support

NOTE: Type 2 900 mm x 1400 mm platform is self-supporting up to a travel of 1219 mm. Travel above 1219 mm will require support

NOTE: Type 3/4 1100mm x 1400 mm platform will require structural support

Two sample landing gate layout drawings are provided:

- right-hand gate
- left-hand gate

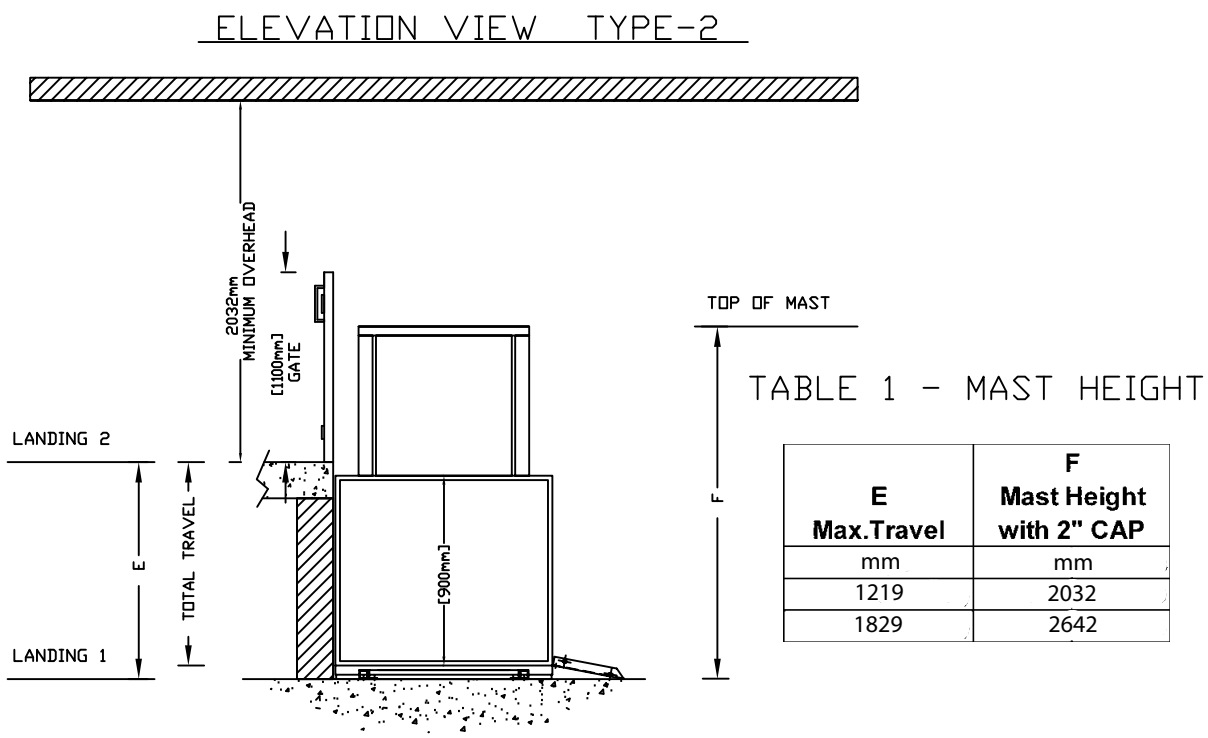


TABLE 1 - MAST HEIGHT

E Max.Travel	F Mast Height with 2" CAP
mm	mm
1219	2032
1829	2642

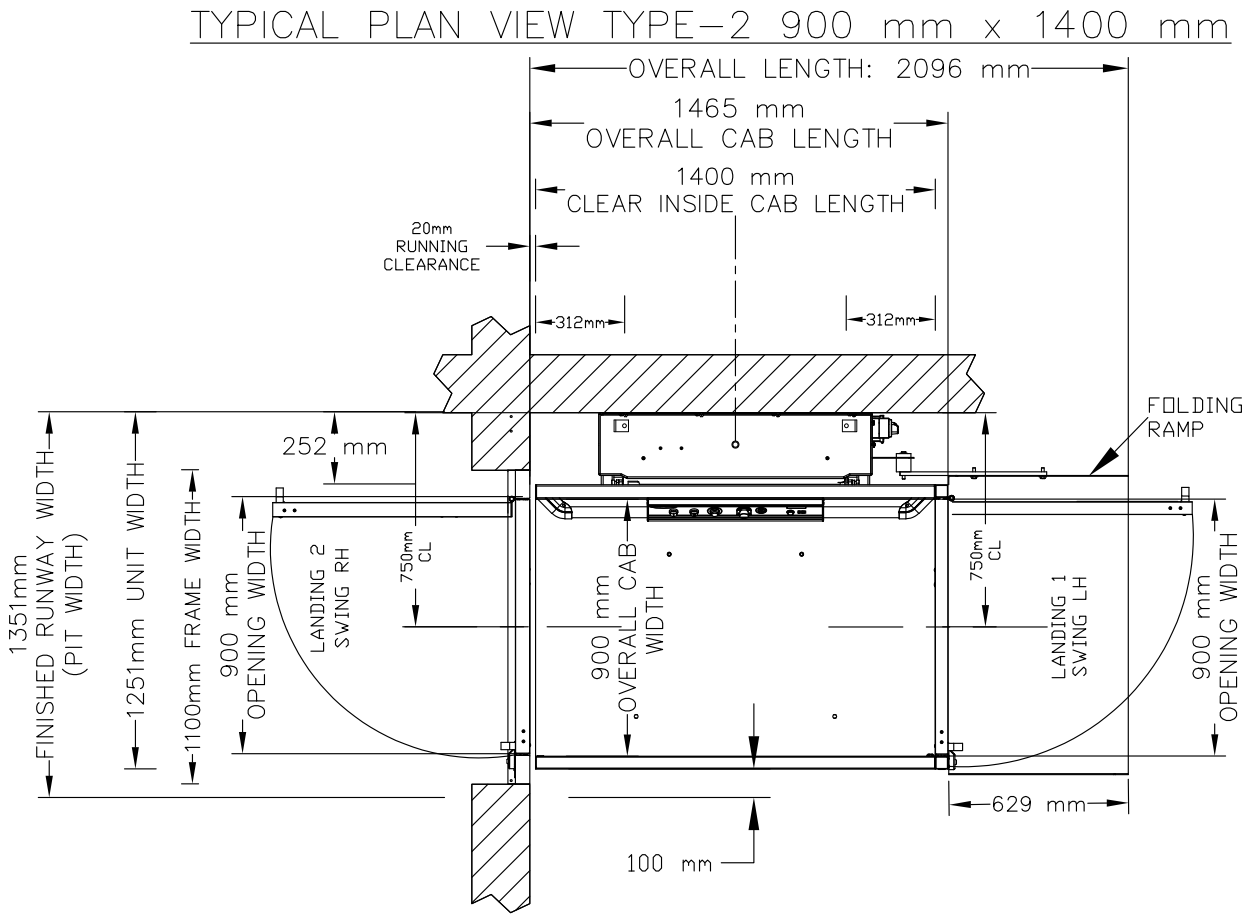


Figure 22: Elevation and plan view – type 2 with platform gate – 900 x1400

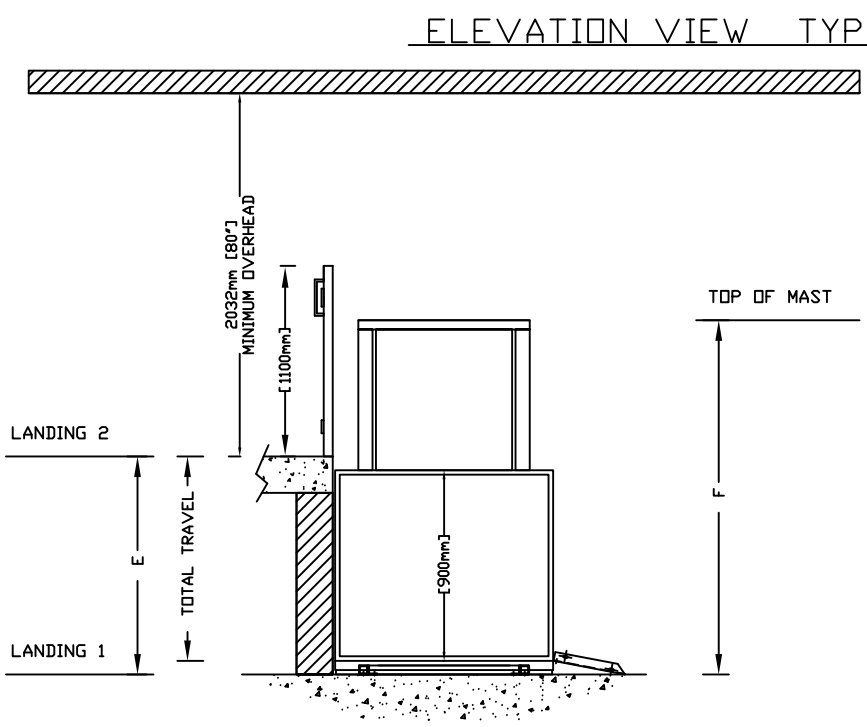


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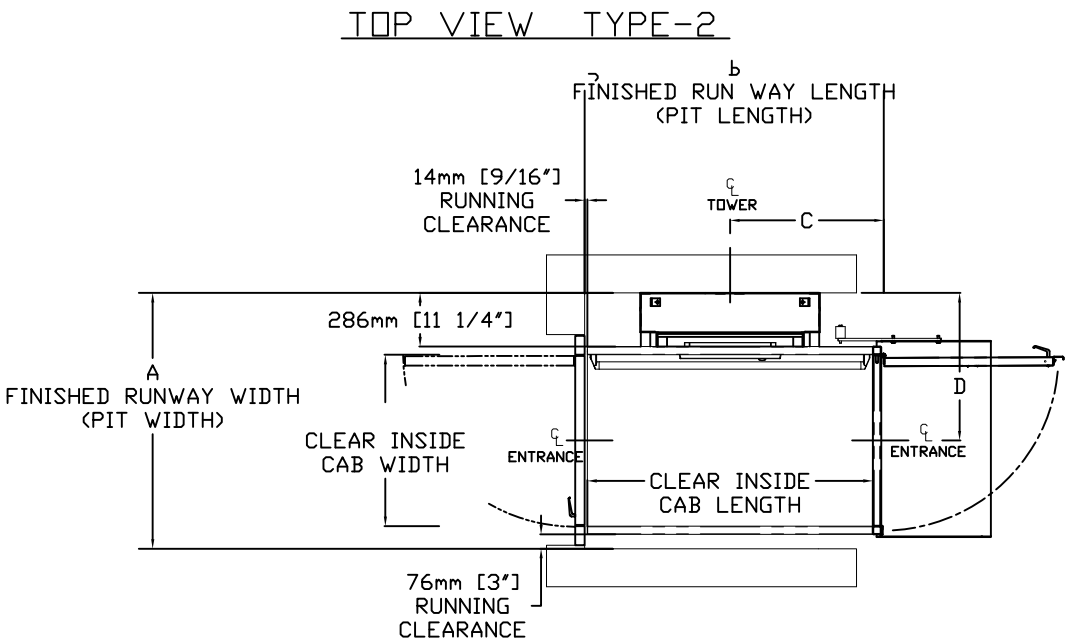


TABLE 2-RUNWAY DIMENSION

Clear Inside cab Width	Clear Inside cab Length	A Finished Runway width	B Finished runway length	C Tower center line	D Door centre line (In case of 42" door
mm	**mm**	**mm**	**mm**	**mm**	**mm**
900	1400	1547	1484	746	852

Figure 23: Elevation and plan view – type 2 with platform gate – 900 x1400

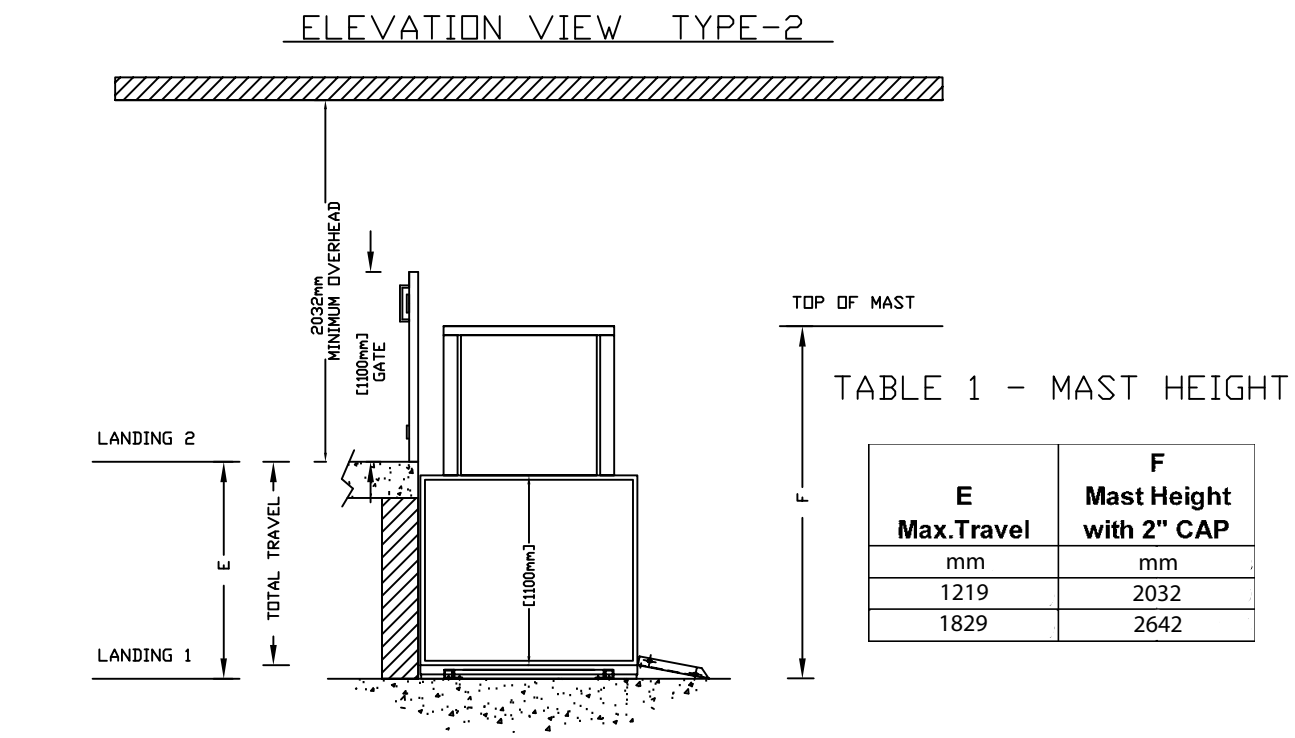


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1829	2642

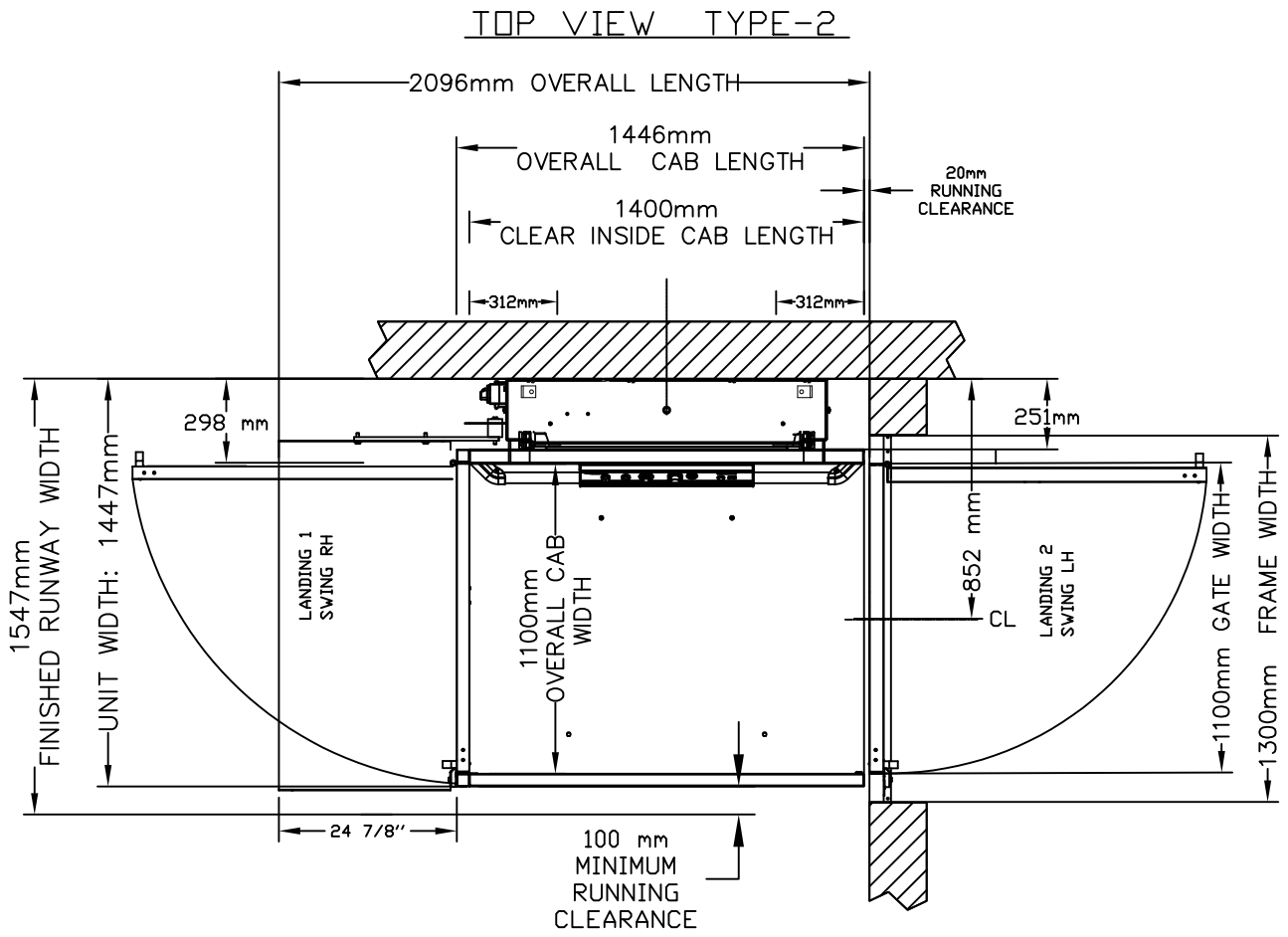


Figure 24: Elevation and plan view – type 2 with platform gate – 1100x1400

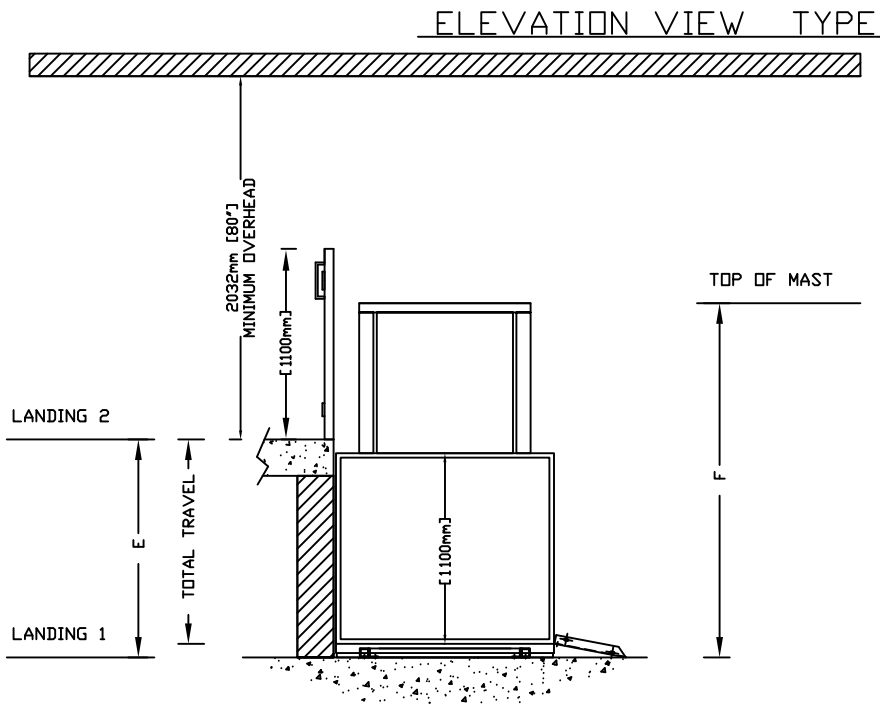


TABLE 1 - MAST HEIGHT

E Max.Travel	F Mast Height with 2" CAP
mm	mm
1219	2032
1829	2642

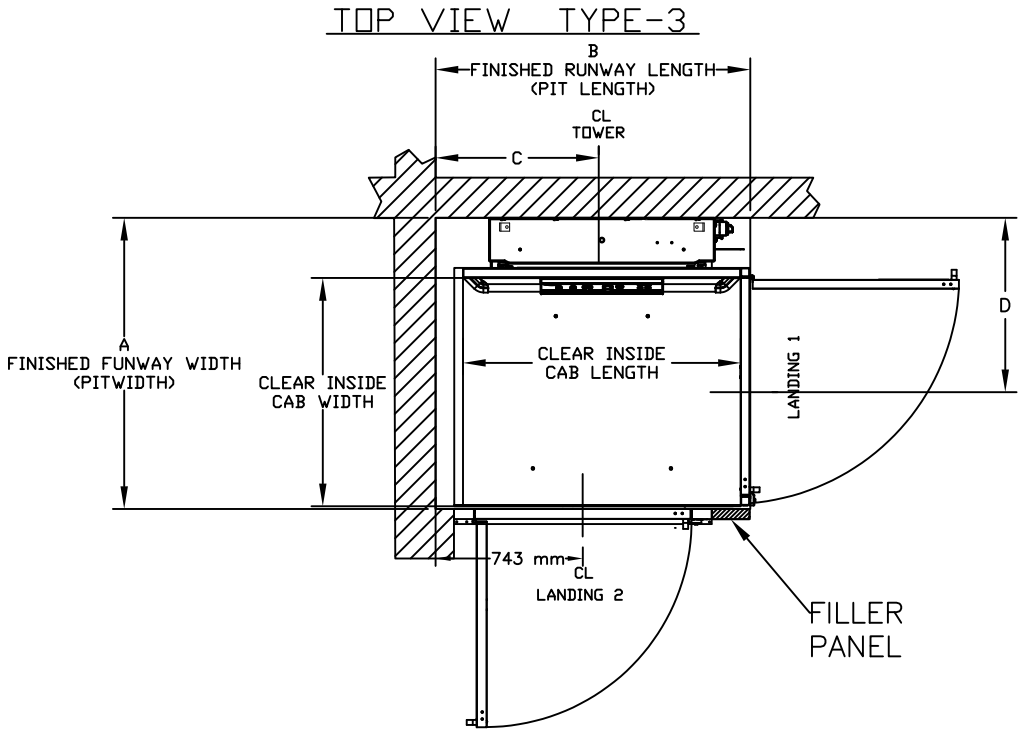


TABLE 2-RUNWAY DIMENSION

Clear Inside cab Width	Clear Inside cab Length	A Finished Runway width	B Finished runway length	C Tower center line	D Door centre line (In case of 42" door
mm	mm	mm	mm	mm	mm
1100	1400	1547	1484	746	852

Figure 25: Elevation and plan view – type 3with platform gate – 1100x1400

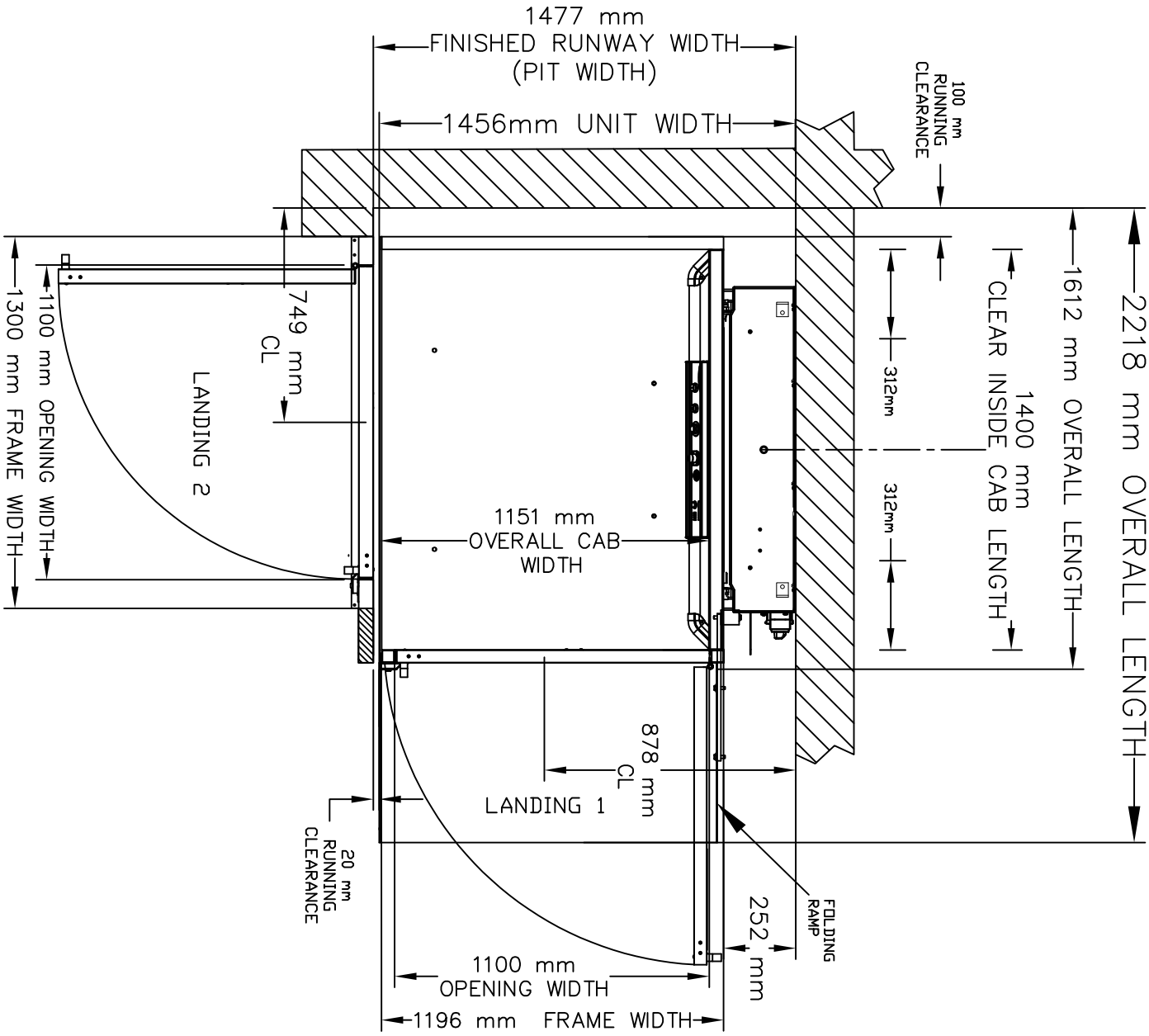


Figure 26: Type 3 Cab

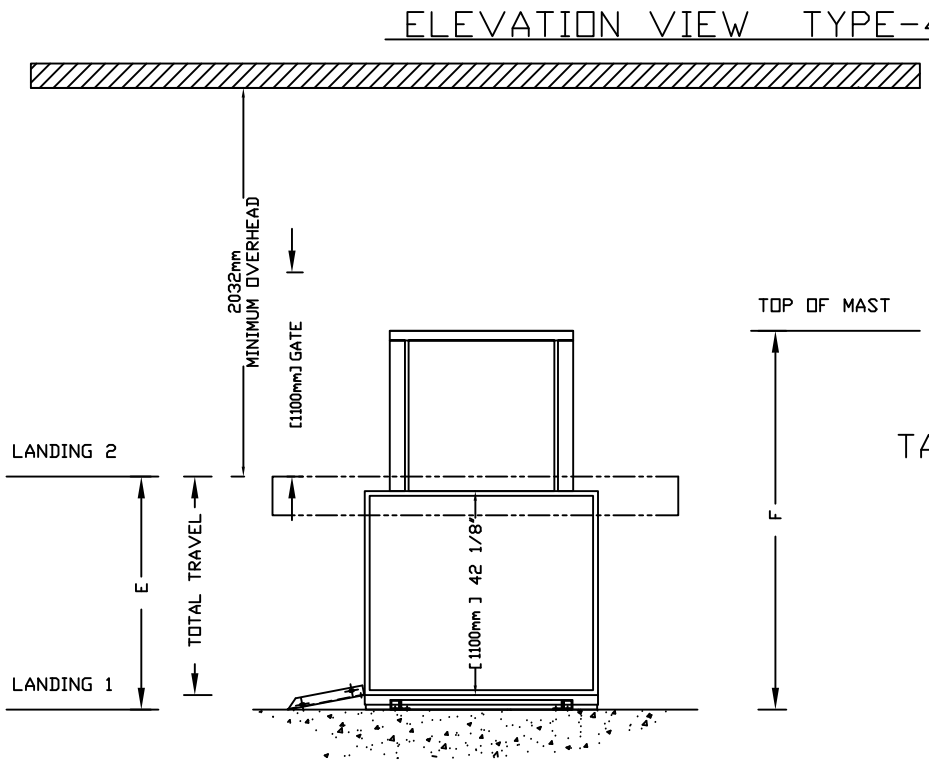
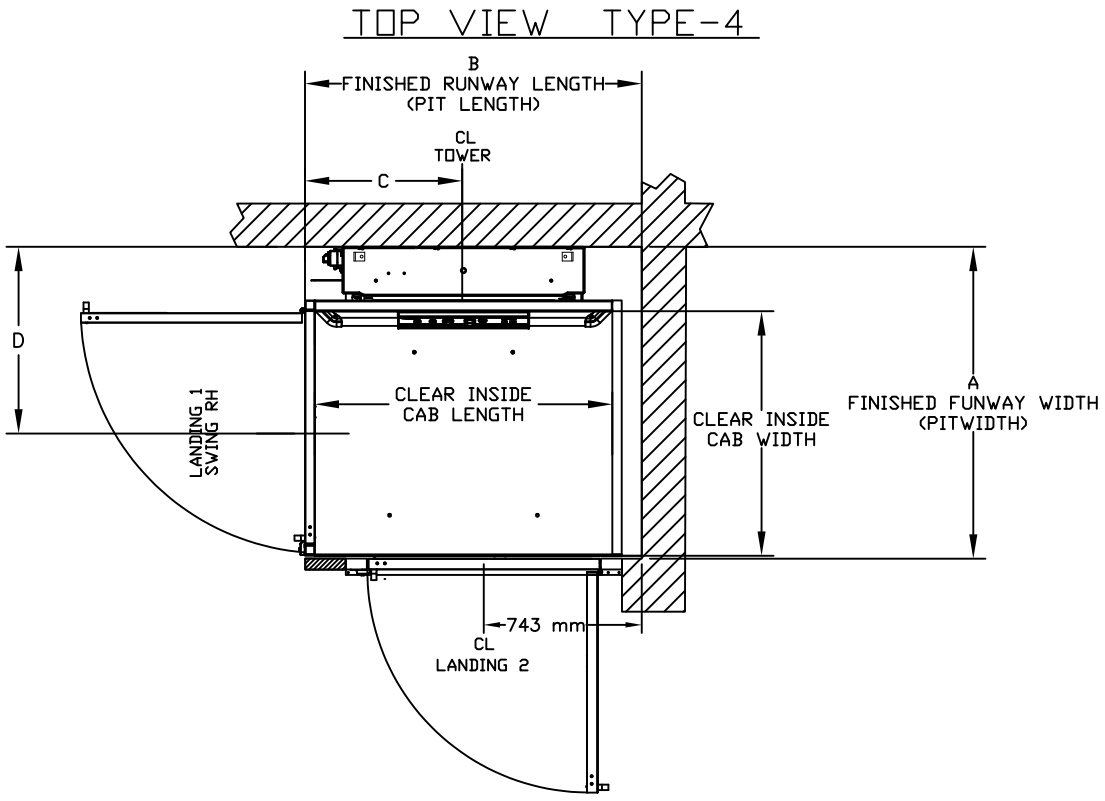


TABLE 1 – MAST HEIGHT

E Max.Travel	F Mast Height with 2" CAP
mm	mm
1219	2032
1829	2642



Clear Inside cab Width	Clear Inside cab Length	A Finished Runway width	B Finished runway length	C Tower center line	D Door centre line (In case of 42" door
mm	**mm**	**mm**	**mm**	**mm**	**mm**
1100	1400	1547	1484	746	852

Figure 27: Elevation and plan view – Type 4 with platform gate

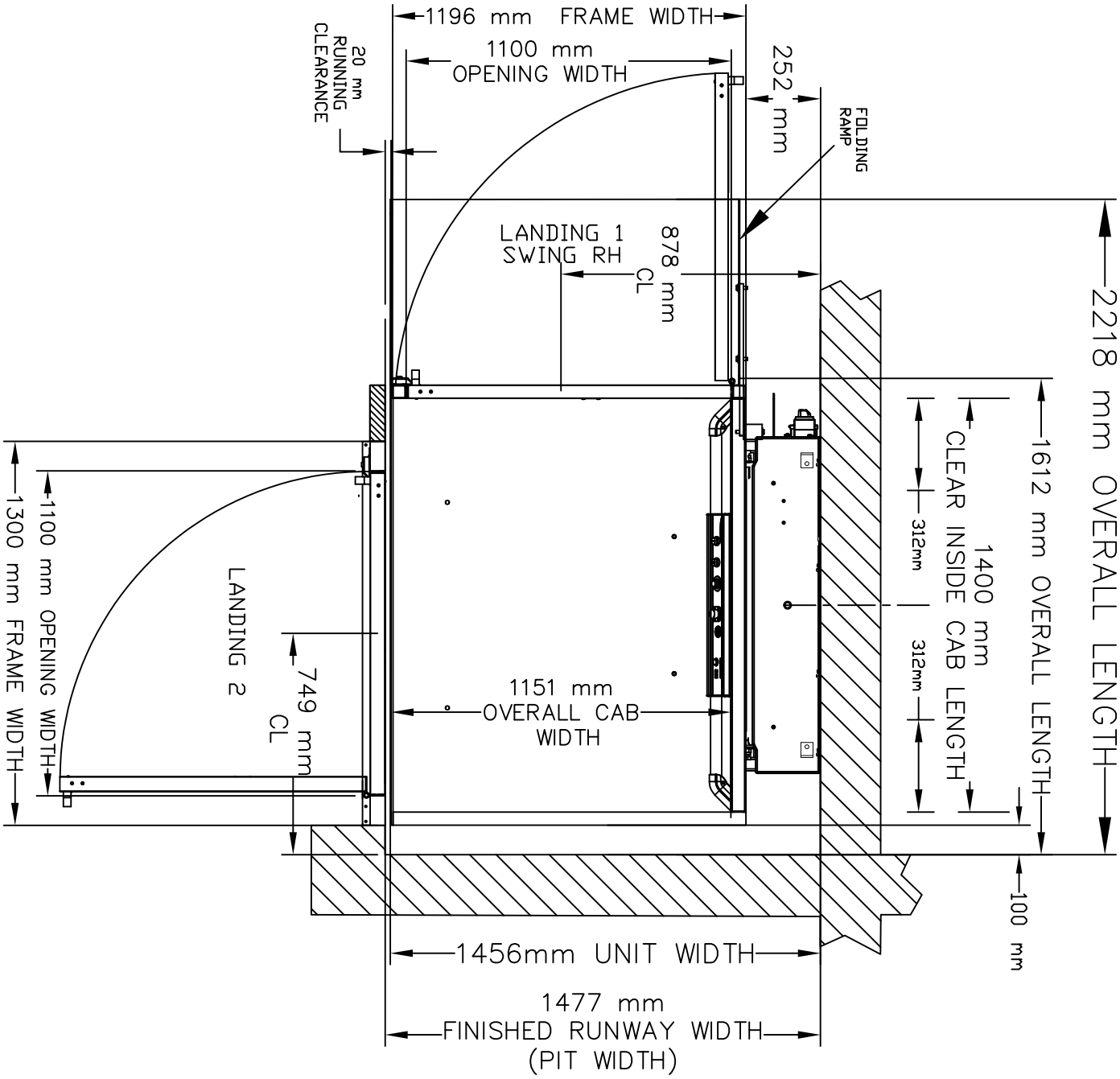


Figure 28: Type 4 Cab

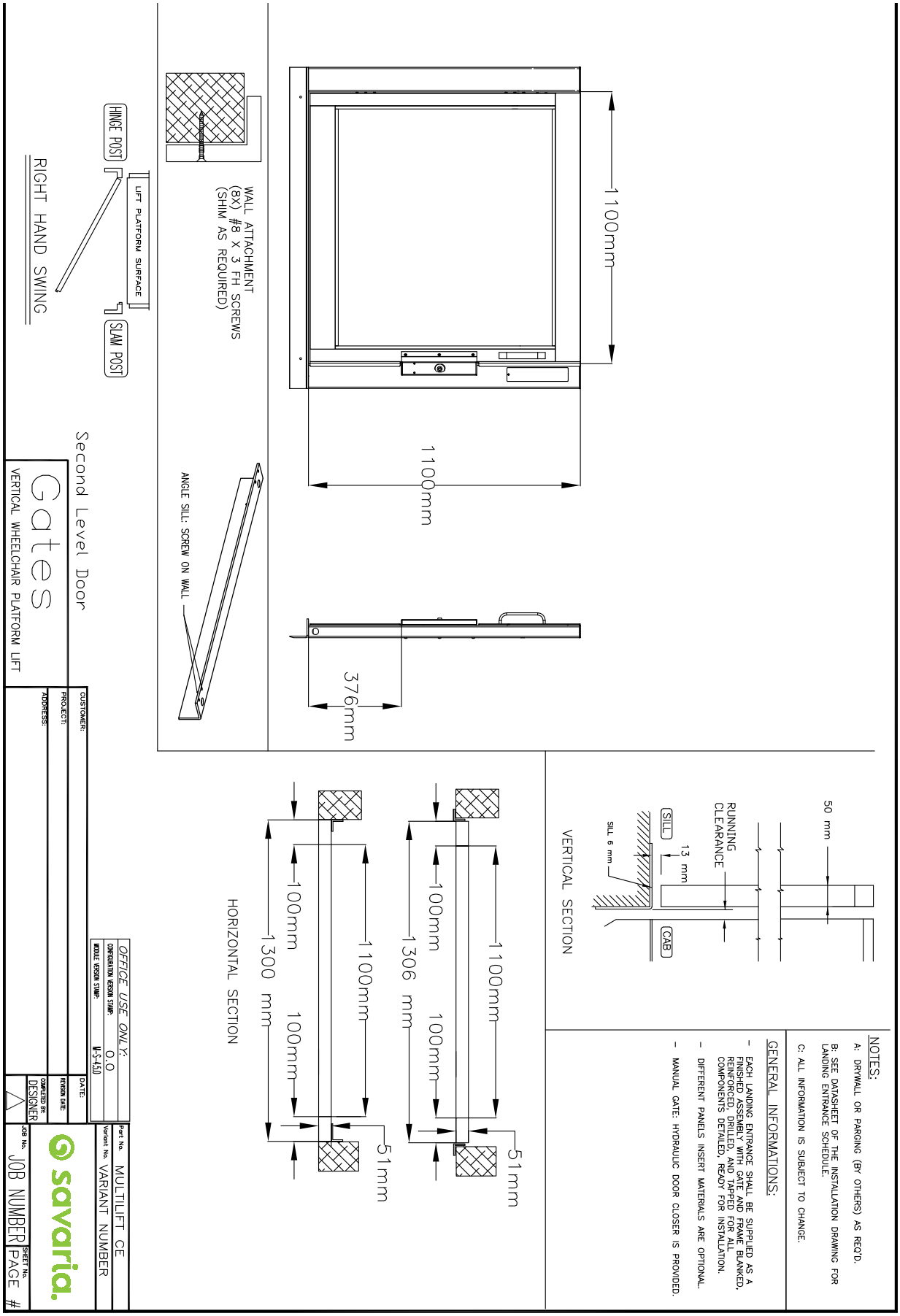


Figure 29: right-hand gate

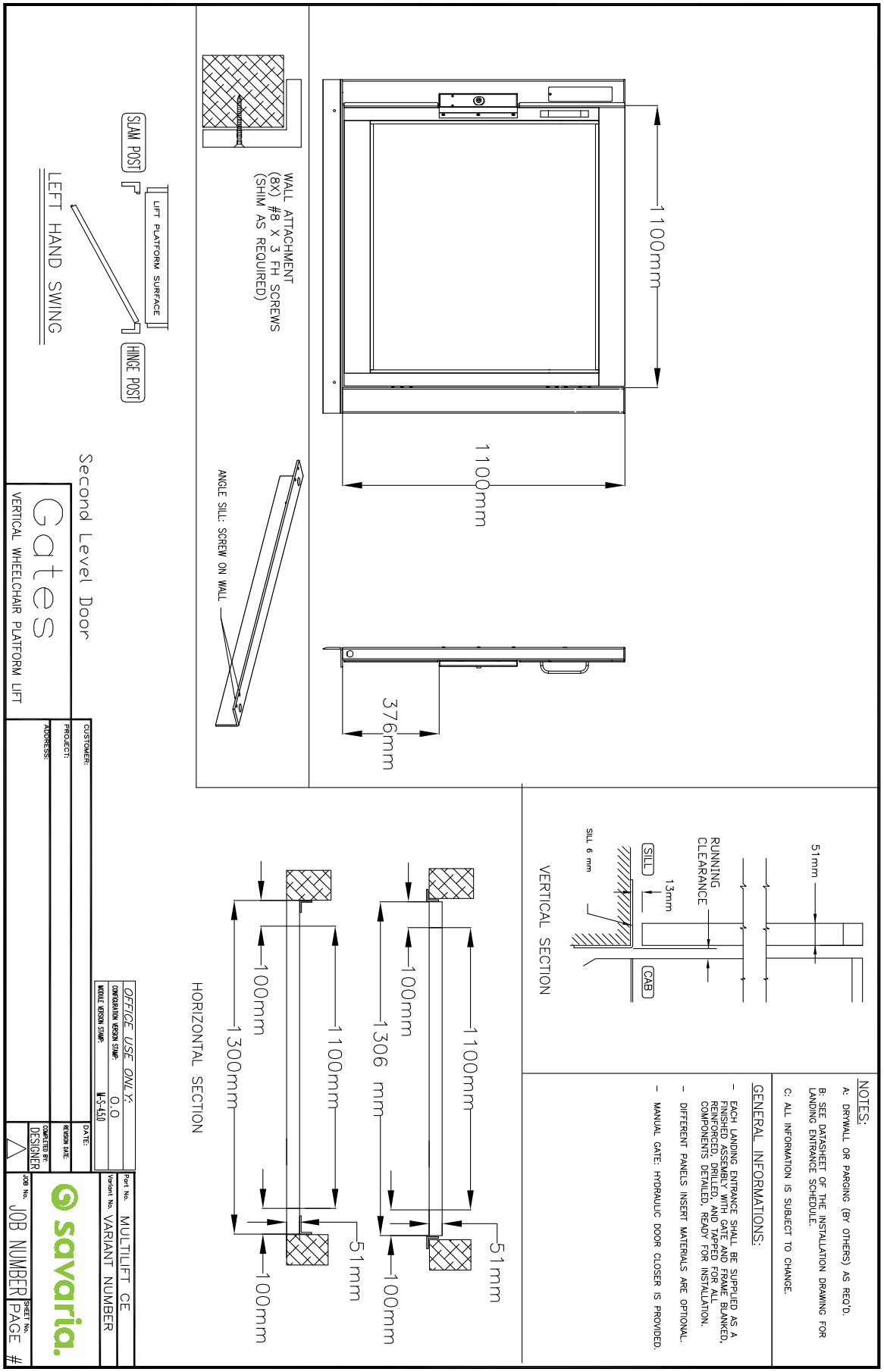


Figure 30: left-hand gate

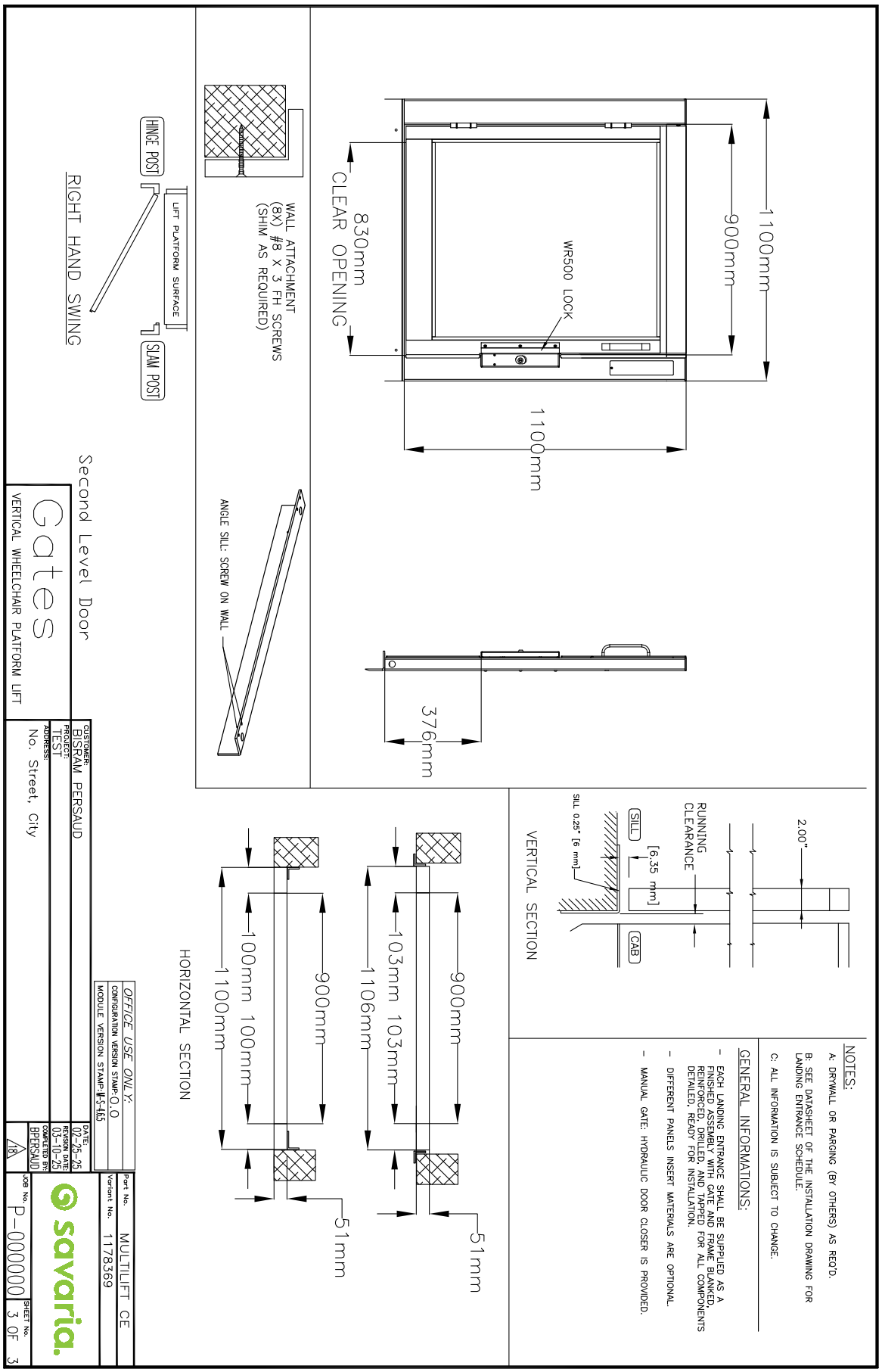


Figure 31: right-hand gate - 900 mm x 1100 mm

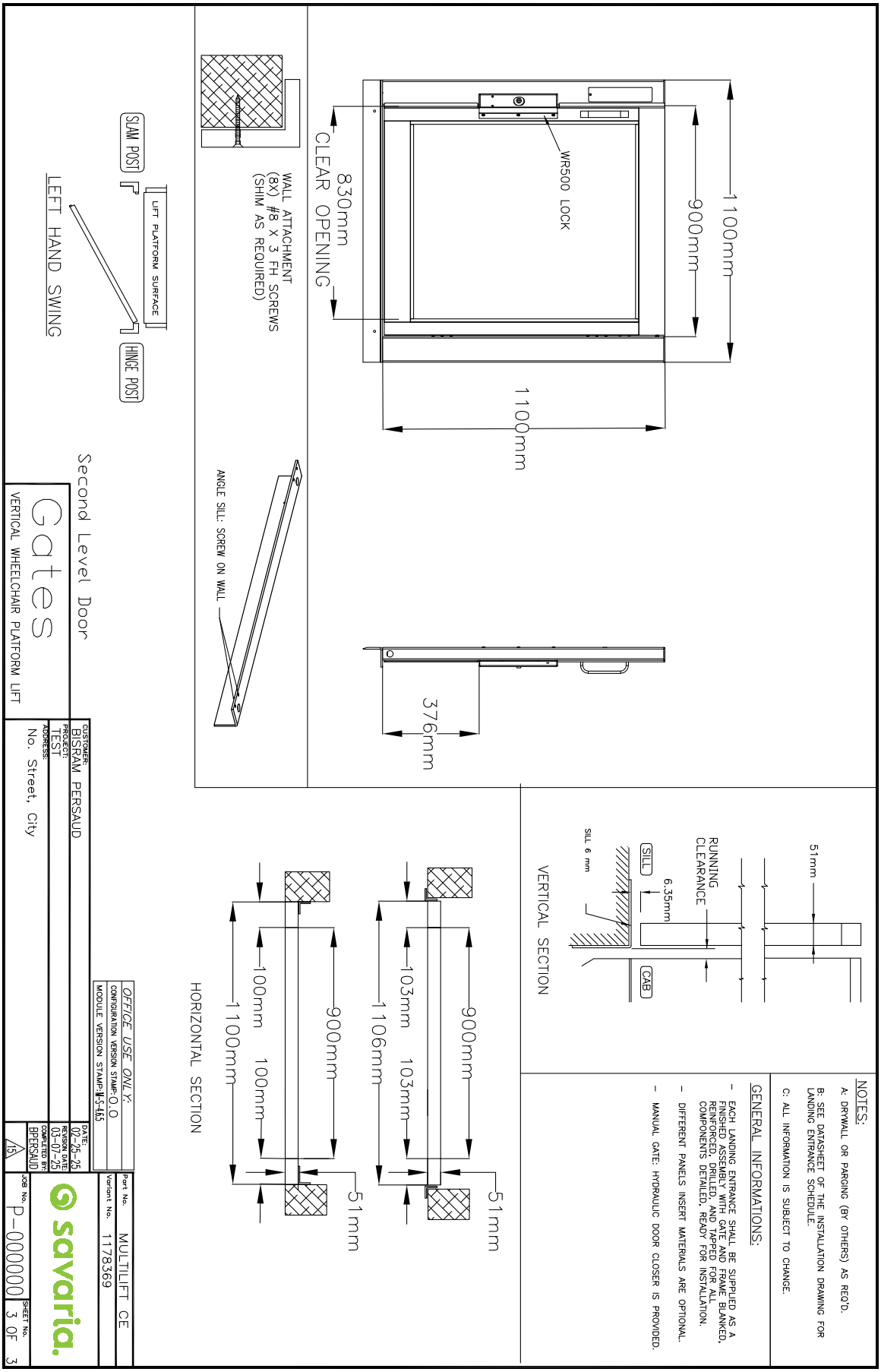
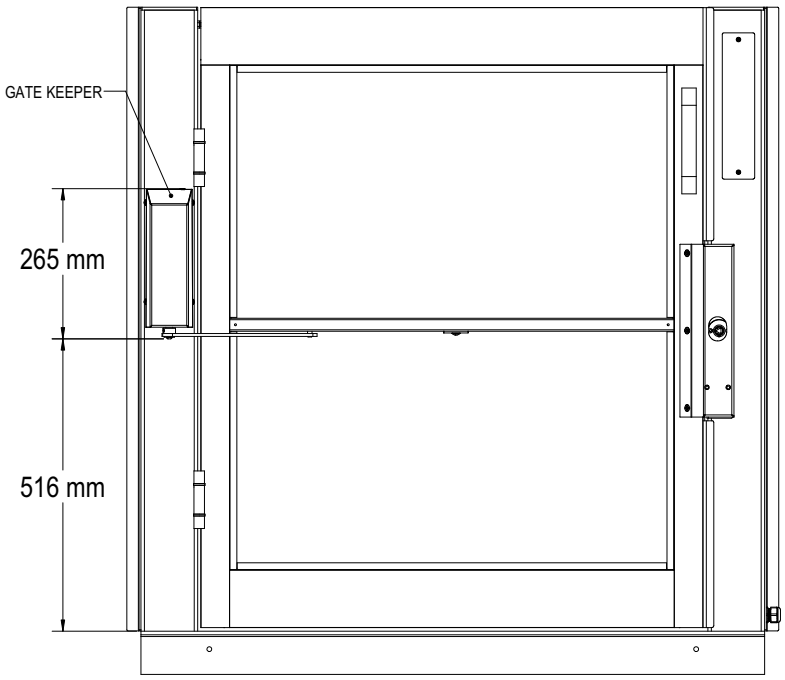


Figure 32: left-hand gate - 900 mm x 1100 mm



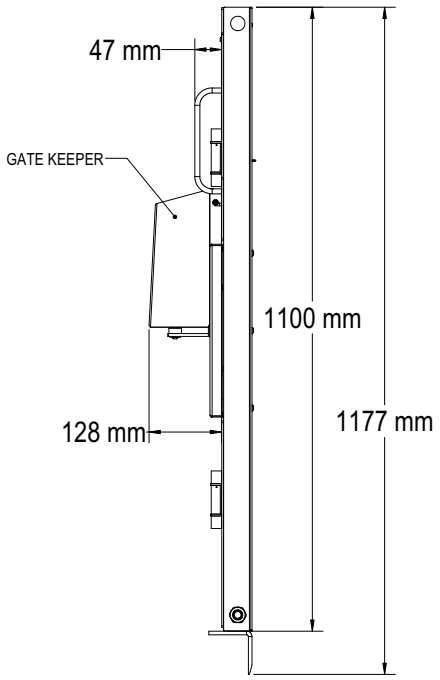
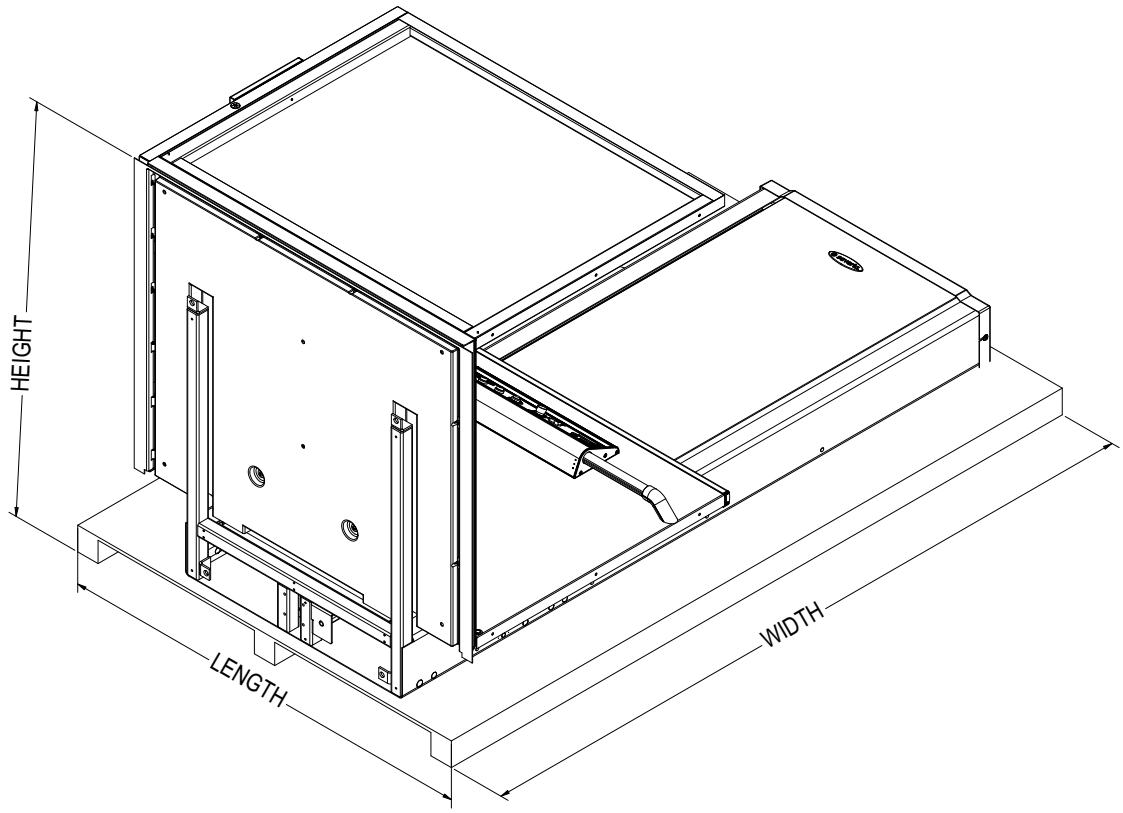


Figure 33: Gate Keeper Specifications

Packaging Specifications for Shipment

Below shows the package dimensions required for packing and shipping the Multilift CE.

Figure 34: Packaging on a Pallet (Horizontal Orientation shown)



Lifting Height Model (mm)	Platform Size	Length of Skid (mm)	Width of Skid (mm)	Height of Skid (mm)	Approx. Gross Weight (kg)	Packaging Orientation
1219	900 x 1400	1650	1600	2200	610	Shipped Vertically
1219	1100 x 1400	1650	1800	2200	620	Shipped Vertically
1829	900 x 1400	1650	2700	1400	690	Shipped Horizontally
1829	1100 x 1400	1650	2700	1600	700	Shipped Horizontally

PROVISIONS BY OTHERS

GENERAL

SITE MUST BE PREPARED TO ACCEPT AND SUPPORT THE EQUIPMENT AS SPECIFIED IN THE LAYOUT DRAWING.
CONTACT YOUR SELLING AGENT WITH ANY QUESTIONS.

HOISTWAY – THE HOISTWAY MUST BE DESIGNED AND BUILT IN ACCORDANCE WITH "SAFETY STANDARD FOR PLATFORM LIFTS AND STAIRWAY CHAIRLIFTS" OR "SAFETY CODE FOR ELEVATORS AND ESCALATORS" AND ALL STATE/ PROVINCIALS AND LOCAL CODES.

PLUMB RUNWAY– DUE TO CLOSE RUNNING CLEARANCES OWN R/ AGENT MUST ENSURE THAT HOISTWAY AND PIT (WHERE PROVIDED) ARE LEVEL, PLUMB (–/+ 1/8" (3 mm)) AND SQUARE AND ARE IN ACCORDANCE WITH THE DIMENSIONS ON THESE DRAWINGS.

MINIMUM OVERHEAD CLEARANCE– OWNER/AGENT MUST ENSURE MINIMUM OVERHEAD CLEARANCE IS IN COMPLIANCE WITH CODES.

CONSTRUCTION SITE– OWNER/AGENT TO PROVIDE ALL MASONRY, CARPENTRY AND DRYWALL WORK AS REQUIRED AND SHALL PATCH AND MAKE GOOD (INCLUDING FINISH PAINTING) ALL AREAS WHERE WALLS/FLOORS MAY REQUIRE TO BE CUT, DRILLED OR ALTERED IN ANY WAY TO PERMIT THE PROPER INSTALLATION OF THE LIFT.

DIMENSIONS– CONTRACTOR/CUSTOMER TO VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO OUR OFFICE IMMEDIATELY.

ONE TOUCH ALERT– REQUIRES A PHYSICAL NANO GSM SIM CARD THAT IS 4G LTE SUPPORTED NETWORK AND HAVE AN ACTIVE VOICE CALLING PLAN BY OTHERS .THE SIM CARD MUST HAVE 24 / 7 CONNECTIVITY FOR UNINTERRUPTED EMERGENCY COMMUNICATION

STRUCTURAL

FLOOR/SUPPORT WALL LOADS–STRUCTURAL ENGINEER TO ASSURE THAT BUILDING AND SHAFT WILL SAFELY SUPPORT ALL LOADS IMPOSED BY THE LIFT EQUIPMENT. REFER TO THE LOAD DIAGRAM ON THIS DRAWING.

MAST TO BE SECURELY FASTENED– WHERE REQUIRED THE MAST MUST BE SECURELY FASTENED TO THE STRUCTURAL SUPPORT WALL. REFER TO WALL / FLOOR SUPPORT LOAD DIAGRAM AND WALL LAG DIMENSIONS ON THIS DRAWING.

WHERE DOORS ARE REQUIRED– SUITABLE LINTELS MUST BE PROVIDED BY OWNER/AGENT. DOOR FRAMES ARE NOT DESIGNED TO SUPPORT OVERHEAD WALL LOADS.

ELECTRICAL

GENERAL– ELECTRICAL EQUIPMENT AND WIRING TO COMPLY WITH EN 60947

POWER SUPPLY–230VAC, 16A, 50HZ, 1PH CIRCUIT THROUGH A FUSE DISCONNECT WITH AUXILIARY CONTACT ON MAIN POWER SUPPLY. PROVIDE TWO 1.5 MM CONDUCTORS BETWEEN CONTACT AND CONTROLLER.

LIGHTING–LIGHTING OF 50 LX MIN. AT PLATFORM AND LANDINGS. LIGHTING WITH SWITCH

ENTRANCES

UPPER LANDING GATES– WHERE REQUIRED, SMOOTH SOLID BARRIERS ARE TO BE SUPPLIED AND INSTALLED ON BOTH SIDES OF ENTRANCE AT UPPER LEVEL AND MUST BE A MINIMUM OF 1100mm HIGH. ENTRANCE ASSEMBLY MUST BE IN PLACE PRIOR TO THIS PROVISION.

FASCIA PANEL BELOW UPPER LEVEL ENTRANCE– WHERE REQUIRED, FASCIA PANEL MUST BE FASTENED TO A SOLID WALL AND BE PERPENDICULAR TO THE FLOOR AND WALLS. HOISTWAY FASCIA IS NOT SELF-SUPPORTING FOR LONG, CONTINUOUS RUNS VOID OF ENTRANCES. ADEQUATE SUPPORT FOR THE FASCIA MUST BE PROVIDED.

ENTRANCE ASSEMBLIES– ENTRANCE ASSEMBLIES MUST BE ADJUSTED TO ALIGN WITH PLATFORM AND INTERLOCK EQUIPMENT. OTHERS TO ALLOW AN ADEQUATE ROUGH OPENING.

RETURN WALLS– RETURN WALLS AT ENTRANCES MUST BE BUILT-IN BY OTHERS AFTER ENTRANCE ASSEMBLIES ARE IN PLACE. ENTRANCE ASSEMBLY MUST BE SECURELY FASTENED TO WALLS

ALL INFORMATION IS SUBJECT TO CHANGE.
PLEASE REFERENCE OUR ON-LINE DRAWINGS AT WWW.GARAVENTA.COM FOR THE MOST RECENT UPDATES

MULTILIFT
VERTICAL
PLATFORM LIFTS

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SHEET 1/1

Figure 35: Provisions by others

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MULTILIFT CE

Vertical Platform Lift
PLANNING GUIDE

Part No. 001421, Rev. 006
30-m06-2026

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