

# Planning Guide



**LEHNER**  
**LIFTTECHNIK**

### **Definition of a Elevex vertical platform lift**

The Elevex vertical Platform lift is design to provide easy access for the physically challenged from a landing to another. The versatile design of this lift can be adapted to most architectural requirements. It can be installed in homes, schools, churches, municipals buildings, nursing homes, restaurants...

The Elevex vertical wheel chair platform lift with is ACME screw drive system offers a safe and reliable operation for its users. This ruggedly constructed lift has been proven for both indoor and outdoor applications.

The Elevex vertical platform lift is a nonportable, permanently installed elevating device for transporting persons with physical disabilities on a platform that moves vertically between permanent levels.

## Table of contents

1 Benefits of using a Elevex vertical platform lift.....	4
2 Technical specifications.....	5
3 Elevex vertical platform lift.....	6
3.1 Anatomy of the lift.....	6
3.2 Site construction details.....	8
3.3 Slab details.....	9
3.4 Outdoor site construction detail.....	10
3.5 Side Access at upper landing (optional).....	11
3.5.1 Site construction details for 90° entry/exit at upper level.....	12
4 Safety features.....	14
4.1 Doors, gates & locks.....	14
4.1.1 Safety arm (optional).....	14
4.1.2 Platform gate (optional).....	15
4.1.3 Electric Strike.....	15
4.2 Safety underpan.....	16
4.3 Grab rail (optional).....	16
5 Dimensions.....	17
5.1 Side View.....	17
5.2 Top View.....	18
5.3 Front View.....	18

## 1 Benefits of using a EleveX vertical platform lift

- The most economical way for a wheelchair, to get from one landing to another
- Machine room not require
- **Easy installation**
- **Very robust device**
- Versatile design
- Indoor/outdoor application
- Heights up to 1829mm
- Can be operated independently
- Easy troubleshooting when required
- Relay logic controller

## 2 Technical specifications

<b>Application</b>	Indoor and outdoor use
<b>Rated Load</b>	340 kg
<b>Rated Speed (capacity)</b>	0.04 m/s
<b>Usable Car Dimensions</b>	Width 864mm - Length 1,219 mm
<b>Levels Served</b>	2
<b># of Openings</b>	2
<b>Platform</b>	Non-skid platform surface
<b>Car Access</b>	Front/rear or 90 exit (optional)
<b>Finish</b>	Beige electrostatic powder coat paint on all steel surfaces and vacuum-formed plastics.
<b>Maximum Travel</b>	1,219 mm or 1,827 mm
<b>Operations</b>	Keyed control station on car Continuous pressure buttons on car
<b>Drive System</b>	ACME screw and back-up nut 0.75 Kw motor, 230 VAC
<b>Power Supply (North America)</b>	230 VAC, 20 AMPS, 1 PHASE, 50 Hz
<b>Emergency &amp; safety</b>	Emergency stop on car Platform safety underpan sensor Automatic Safety ramp on platform
<b>Controller</b>	Electronic-free relay logic
<b>Manual lowering</b>	Manual emergency lowering/raising device
<b>Side Guard Panels</b>	1,067 mm with metal inserts

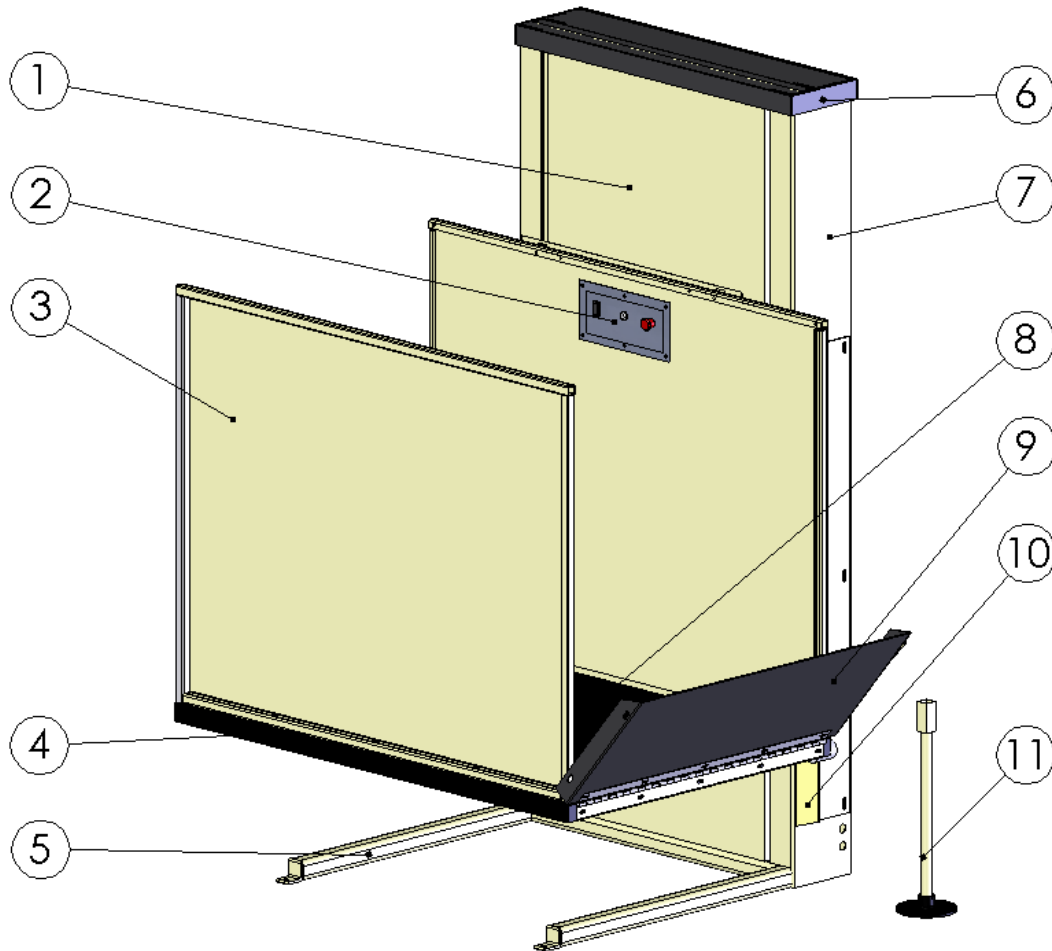
\*Consult local codes and regulations

### 3 EleveX vertical platform lift

The EleveX is offered in several types of configurations.

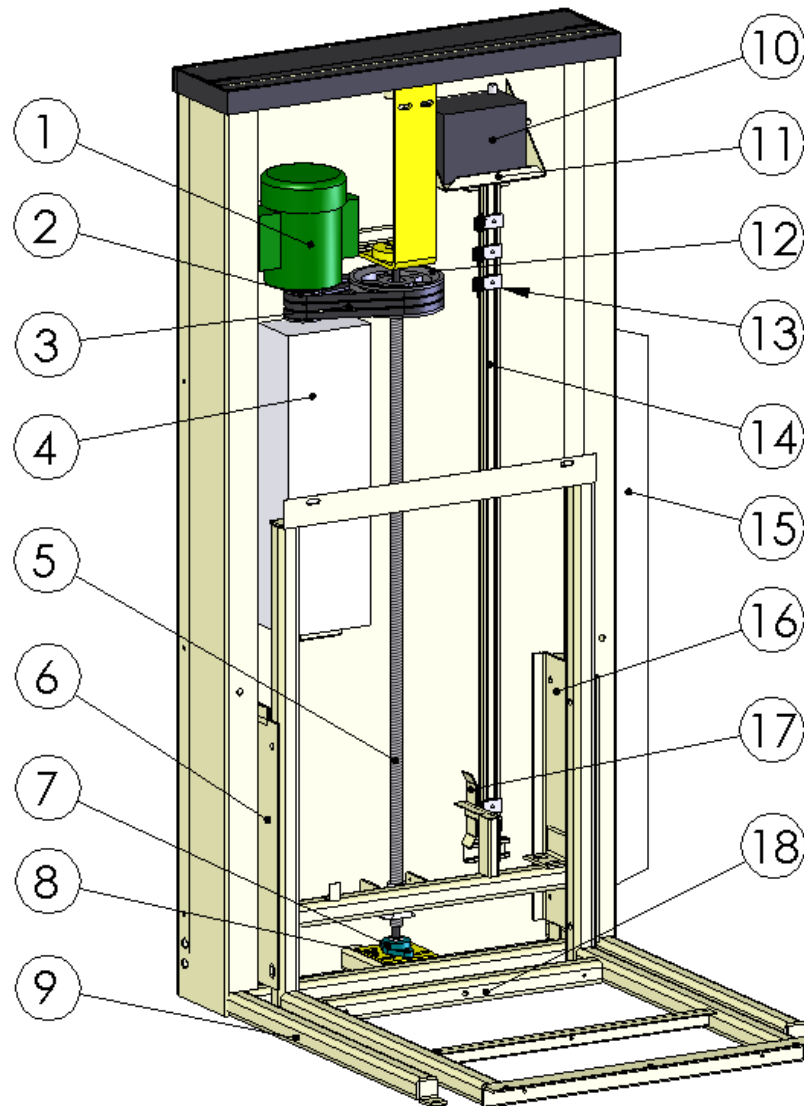
#### 3.1 Anatomy of the lift

The EleveX consists in a tower and a platform. Here is the general form of the EleveX.



Number	Description	Number	Description
1	Front tower panel	7	Tower
2	Control operating panel (C.O.P.)	8	Non-skid platform
3	Side guard panel	9	Automatic access ramp
4	Safety underpan sensors	10	Guide for access ramp
5	Self support base	11	Manual lowering device
6	Tower cover	-	-

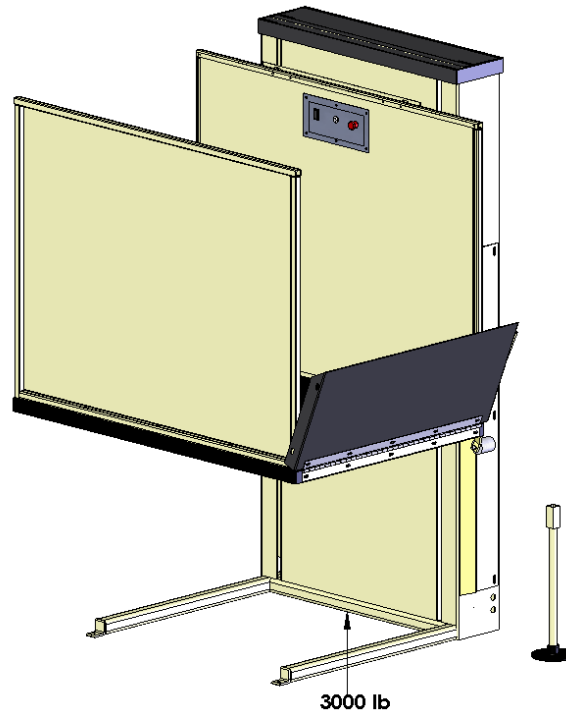
Here are the components of the drive tower.



Number	Description	Number	Description
1	Motor	10	Battery (optional)
2	Main pulley	11	Battery tray
3	V strap	12	Pulley
4	Controller box	13	Limit switches (configuration and type may vary)
5	Acme screw	14	"U" strut
6	Left roller guide shoe	15	Guidance for access ramp
7	Lower bearing	16	Right roller guide shoe
8	Lower bearing plate	17	Cam assembly
9	Self support base	18	Carriage assembly

### 3.2 Site construction details

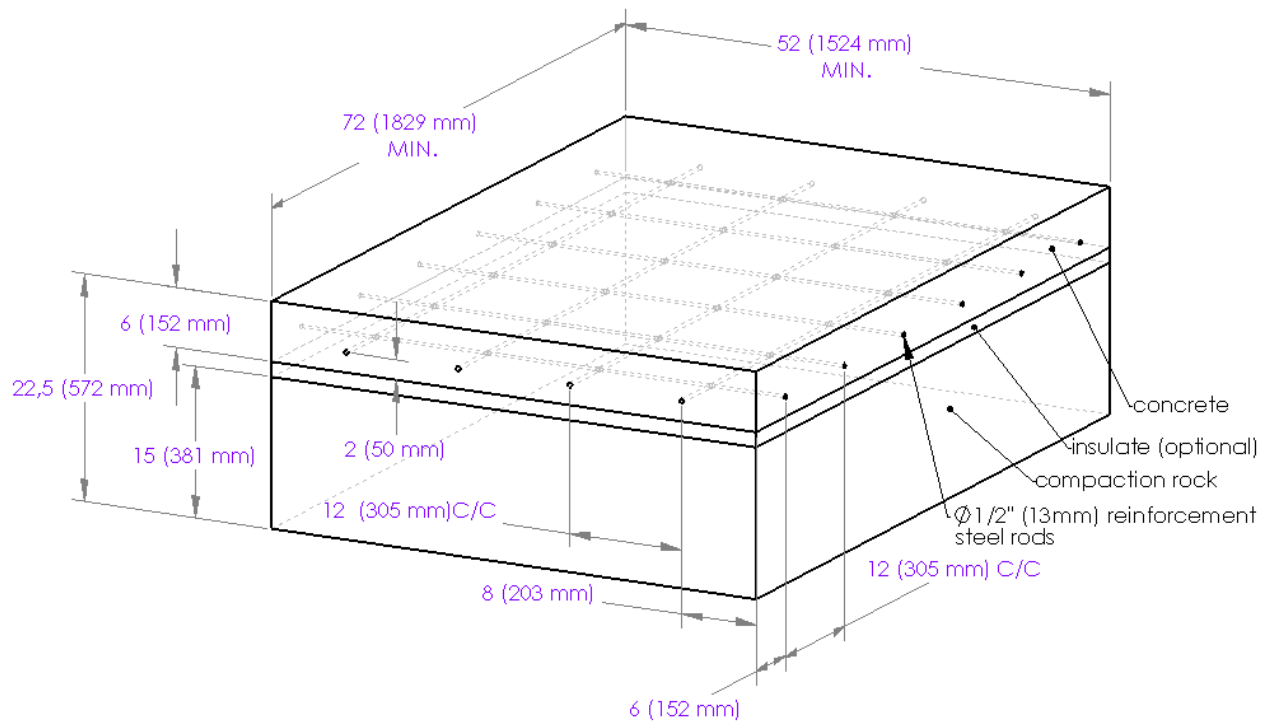
The self support base is anchored to a concrete slab, please see p.9 for slab details. A slab or the floor have to support at least 1400kg. Make sure that the slab floor is leveled.



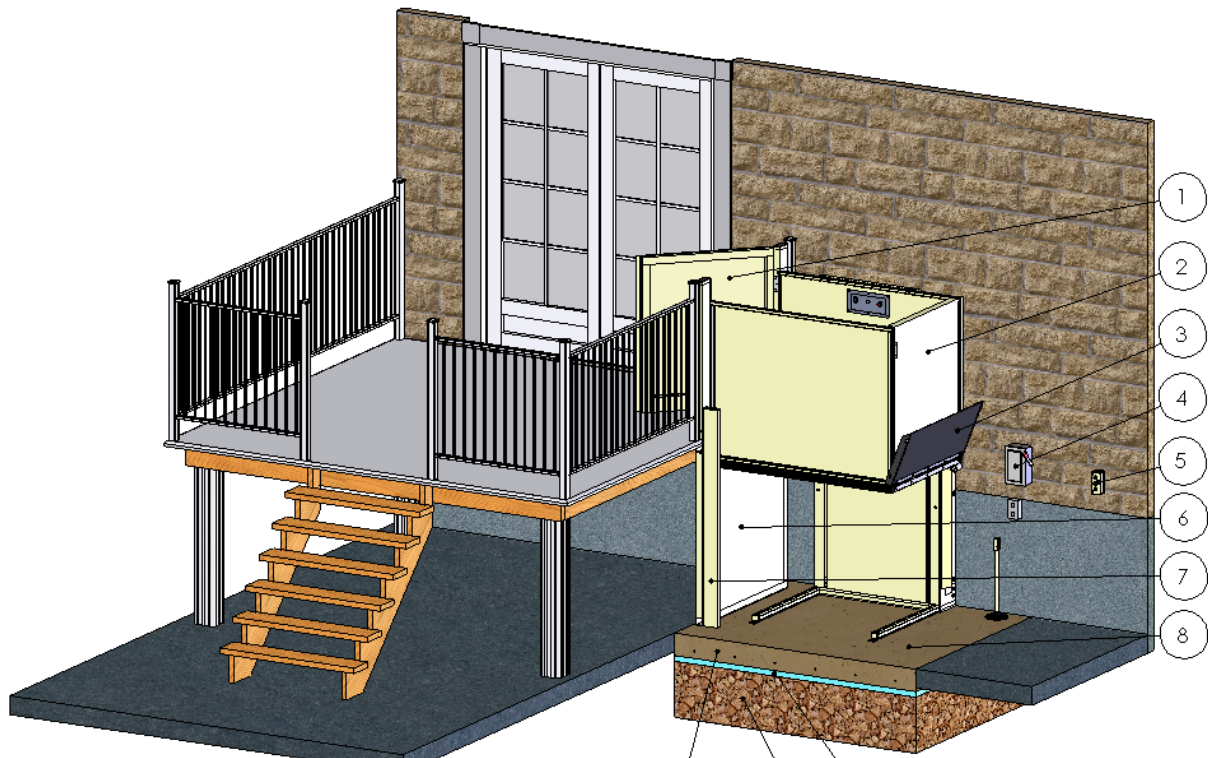


### 3.3 Slab details

Outdoor applications need a strong and stable support surface. This means a surface that will not move throughout the years. For this reason, it is essential, when temperature gets below the freezing point, to insert an insulate sheet between concrete slab and compaction rock.



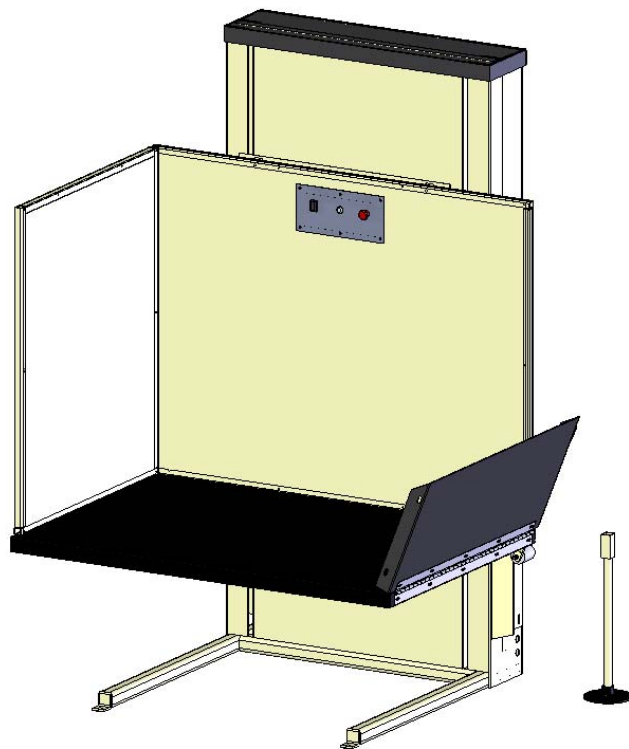
### 3.4 Outdoor site construction detail



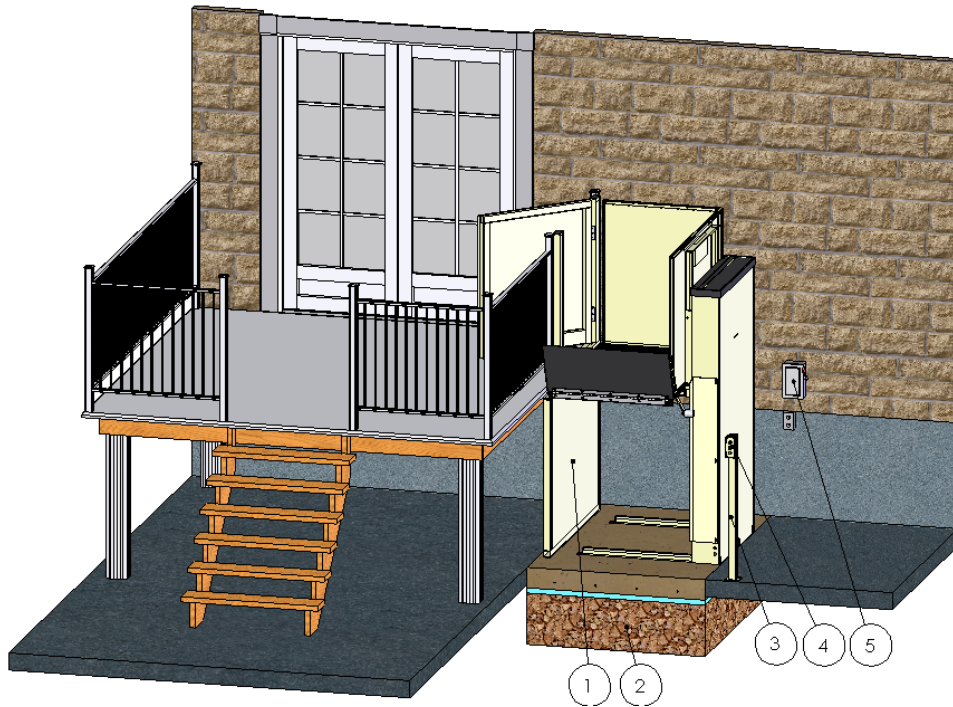
Number	Description	Number	Description
1	Top landing gate (optional)	5	Call/send station (keep proper distance from lift)
2	Platform gate (optional)	6	Fascia panel (can be supplied by Lehner Lifttechnik )
3	Automatic access ramp	7	Cam cover
4	Electrical connection	8	Concrete slab

### **3.5 Side Access at upper landing (optional)**

The Elevex has been design to operate with front/back entry/exit. Lehner Lifttechnik always recommends to use straight thru platform. However, a 90 deg. exit could be the only possibility. Here is the 90 deg. configuration.

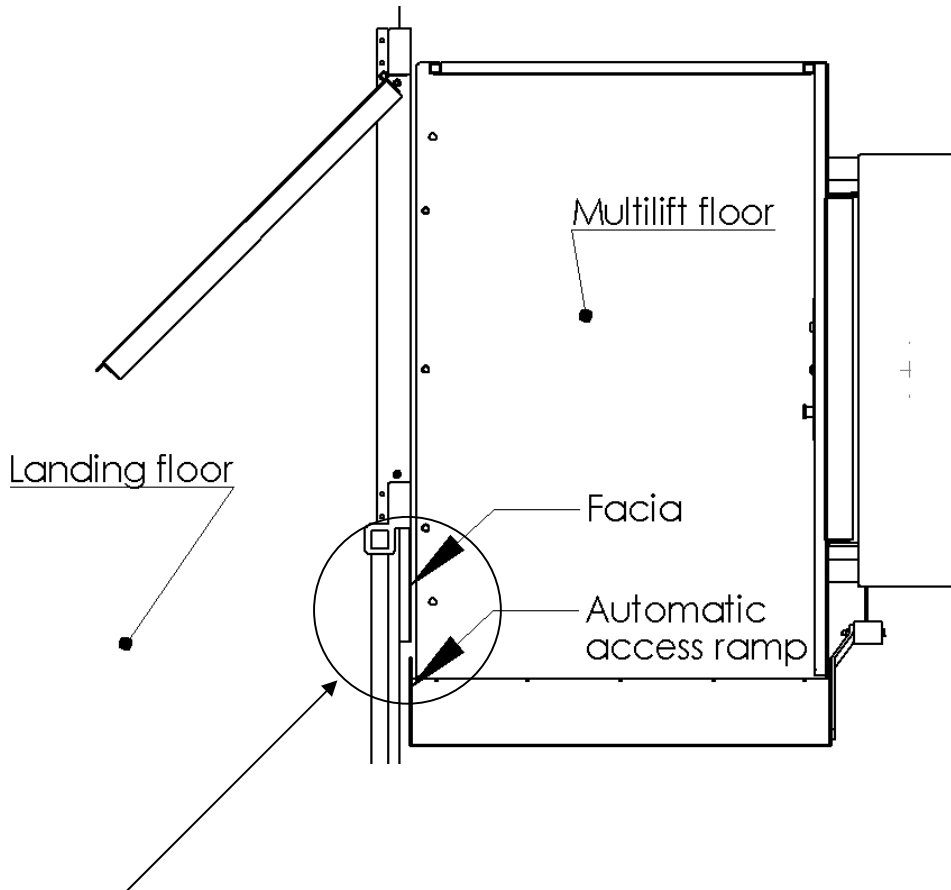


### 3.5.1 Site construction details for 90° entry/exit at upper level



Number	Description	Number	Description
1	Fascia panel (can be supplied by Lehner Lifttechnik )	4	Call/send station (keep proper distance from lift)
2	Concrete slab	5	Electrical connection
3	Call/send station post	-	-

**Plan view of side entry at upper level**



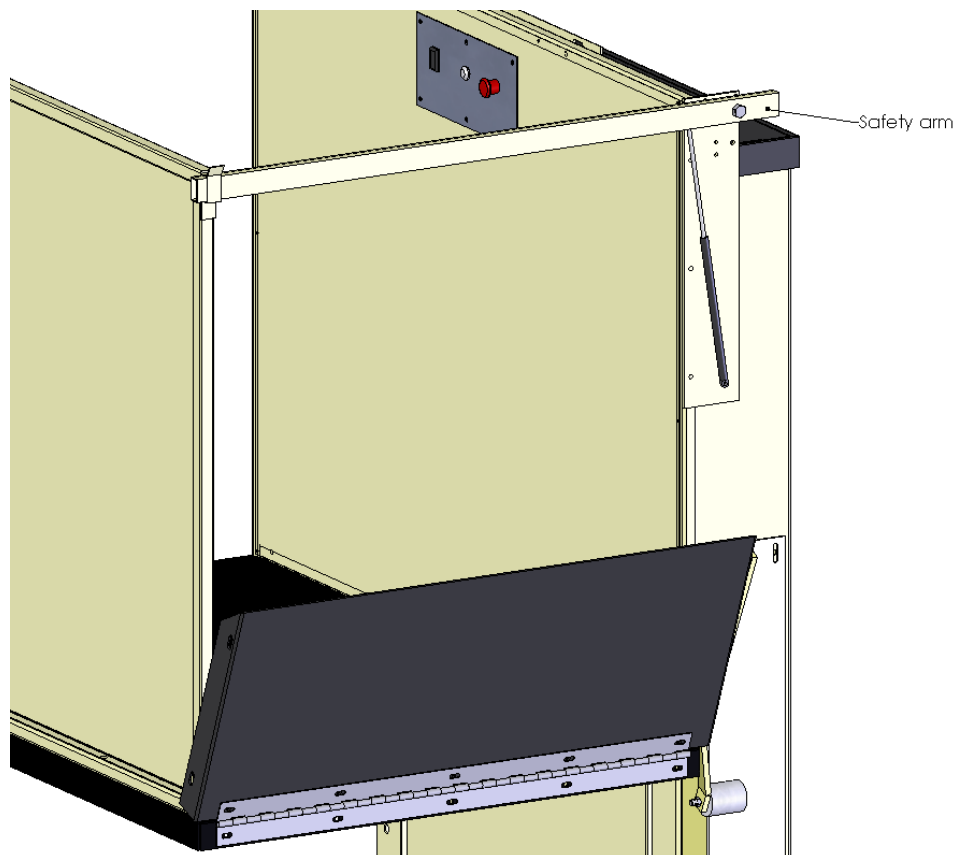
Make sure that there is no interference between the automatic access ramp and the fascia panel.

## 4 Safety features

The EleveX has numerous safety features, here are some of the most important.

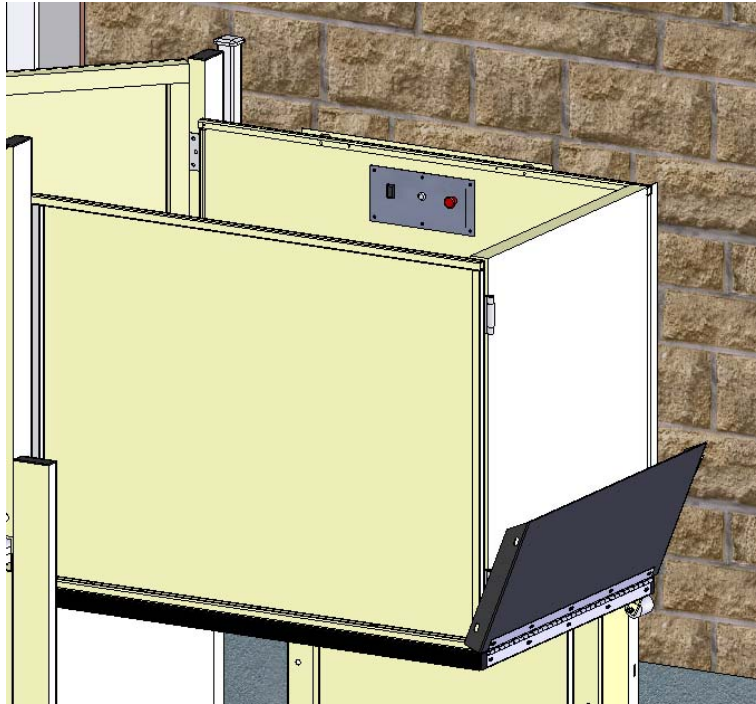
### 4.1 Doors, gates & locks

#### 4.1.1 Safety arm (optional)



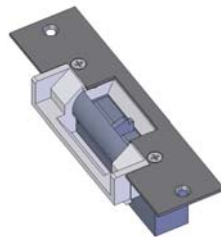
### 4.1.2 Platform gate (optional)

Platform gate prevent passenger from falling off, it is an additional safety feature.



### 4.1.3 Electric Strike

The electric strike locks the door when the platform is operating or at another landing.



**Electric Strike 2083EJ**

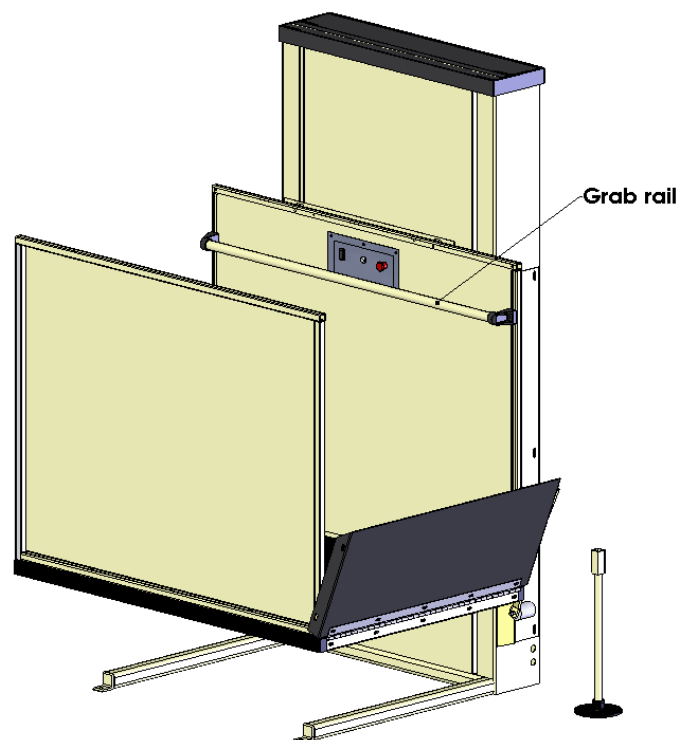
➤ 12 VDC, 0.5 A

## 4.2 Safety underpan

The safety underpan sensors will prevent the platform from going down in case of obstruction.



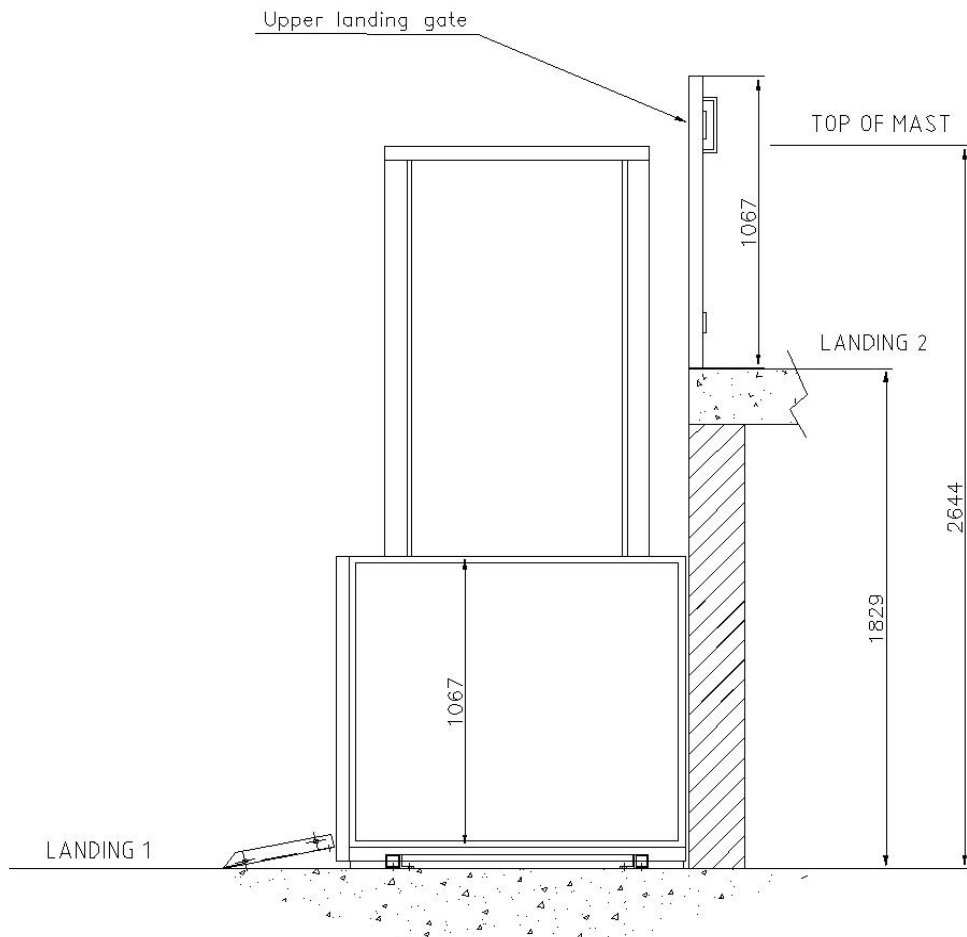
## 4.3 Grab rail (optional)



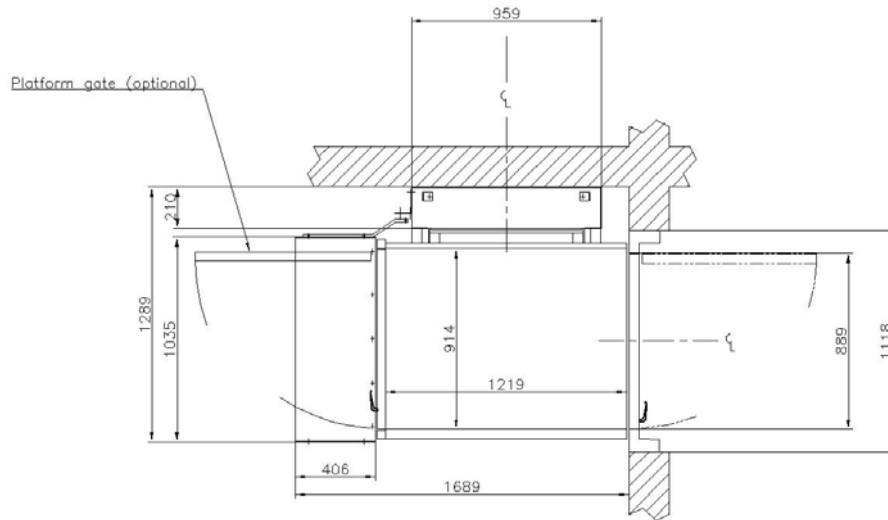


## 5 Dimensions

### 5.1 Side View



### 5.2 Top View



### 5.3 Front View

