
VECTOR
PLATFORM LIFTS

Product summary - Vector

Vector

The lift is designed to meet all requirements for quality, safety and service life. It is a perfect fit for tough and demanding environments such as schools, shops and residential buildings.

Vector	
Technical compliance:	European Machine directive 2006/42/EC European standard EN 81-41
Lift type:	Platformlift
Drive system:	Patented screw/nut system
Rated speed (max):	0,15 m/s
Travel height:	250 -13 000[1)] mm [1)] Travel height when having a half door is maximum 3 000 mm (inside EU)
Number of stops:	Max. 6 stops per lift
Number of doors:	Max. 6 doors per lift
Number of doors per floor:	Max. 2 doors per floor
Pit:	50 mm (no pit is required when there is a ramp)
Entry:	One, two or three sides
Top height:	Minimum 2240 mm (1100-1600 mm with half height door)
Platform control:	”Hold to run”, the destination button must be kept pressed down during the whole ride
Landing control (on door):	One-touch call
Environment:	Indoor/outdoor
Emergency lowering:	Manual lowering with a winch as standard. (Battery operated emergency lowering as option)
Control voltage:	24V
Motor:	2,2kW
Power supply:	1-phase 230V 50 Hz/9 A/16 A slow 3-phase 230V 50 Hz/9 A/16 A slow 3-phase 400V 50 Hz/5.2 A/16 A slow
Rated load:	250, 410 or 500 kg (depending on platform size)

Platform

Vector is available in 8 different platform sizes. The rated load depends on the platform size.

Platform floor area A/C x B (mm)	Load (kg)
900 x 1040	250
900 x 1280	410
900 x 1480	410, 500
1000 x 1280	410
1000 x 1480	410, 500
1000 x 1980	500
1100 x 1480	410, 500
1100 x 1580	500

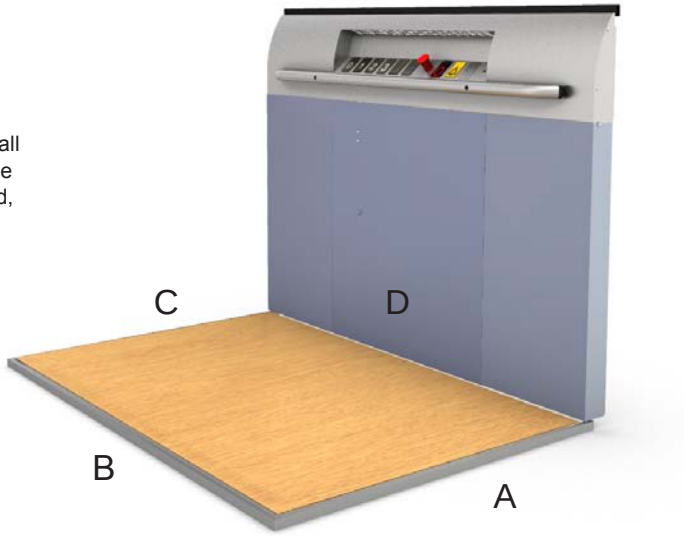
Load limits per power supply	400V 3-phase	400V 3-phase 60Hz	230V 3-phase	230V 3-phase 60Hz	230V 1-phase
250 kg	●	●	●	●	●
410 kg	●	●	●	●	●
500 kg	●		●		

Carrier
Vector

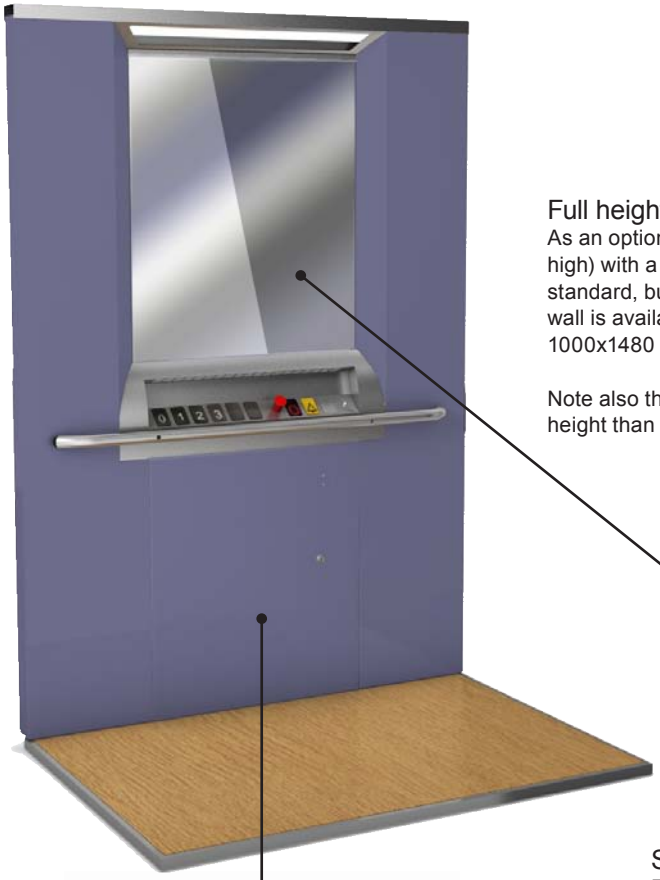
Platform

Half height wall

The platform is in its basic execution delivered with a side wall (half height) including the destination panel. Panels under the destination panel are painted in RAL 5014 (blue) as standard, but can be painted in any RAL colour as an option.



A,B,C and D-side of platform.



Full height wall

As an option the platform can be delivered with a full height wall (2100 mm high) with a mirror and LED light. The full height wall is in RAL 5014 (blue) as standard, but can be painted in any RAL colour as an option. The full height wall is available for D-side of 1480 mm, i.e for platform sizes 900x1480 mm, 1000x1480 mm and 1100x1480 mm.

Note also that full height wall is not possible if you have a lower door opening height than 2000 mm or having a half height door.

Mirror

Mirror 800x970 mm
Included as standard for full height wall.

Fold down seat

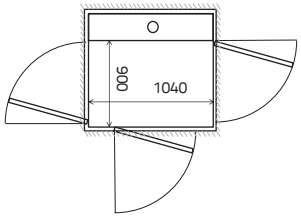
In solid birch and with chromed brackets. The seat has to be folded back manually after use.
Can be ordered as an option.
Size: 320 x 400 mm

Steel kerb

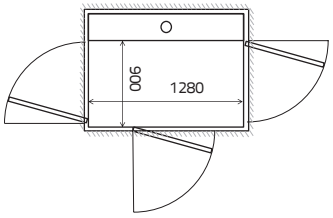
For extra protection of the platform and the shaft walls a steel kerb can be ordered as an option for Vector. The steel kerb is a 80 mm high steel frame placed on all sided on the platform, except for door sides. It is recommended when using the lift also for goods. The safety edge will be specially made to fit the steel kerb.

Overview Vector

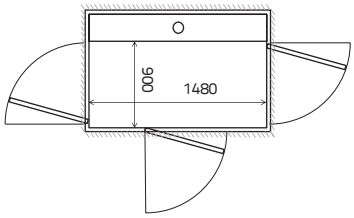
900 x 1040



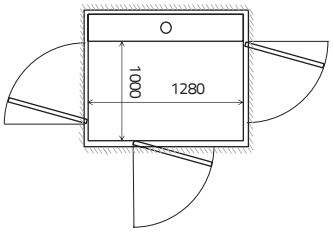
900 x 1280



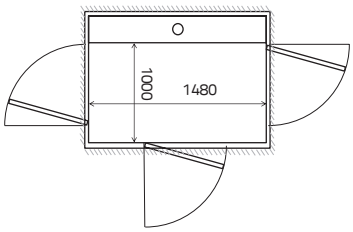
900 x 1480



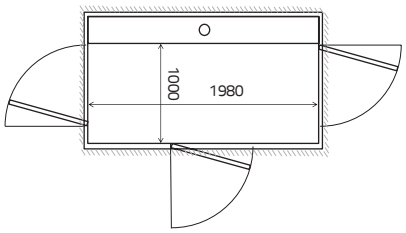
1000 x 1280



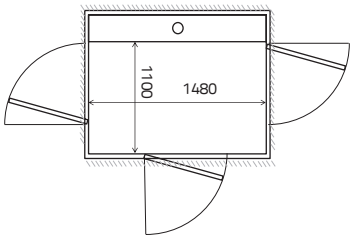
1000 x 1480



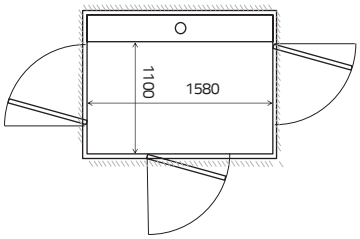
1000 x 1980



1100 x 1480



1100 x 1580



For more detailed drawings see page 32.


NOTABENE

Carrier - Vector

Destination panel

The destination panel is always placed on the machine side (D-side) of the platform. It contains the destination buttons, emergency stop, alarm button, autodialer (option), landing indicator (option), company logo, max weight and number of persons allowed.
All text and logos are screen printed to ensure good quality. On request a partner logo can be screen printed on the destination panel.
The location of the platform buttons and the handrail are according to E81-41.

- Anodized aluminium - standard
- Stainless steel - option

Faceplate panel

The faceplate panel in anodized aluminum (chemically polished) gives a soft finish to the platform.
To prevent any trapping, a safety list is mounted behind the faceplate panel which cuts off the security circuit when pressed down.

Destination buttons

Destination buttons are according to EN 81-41 and EN81-70 for disabled. The location of the buttons are within the limits in the standard, i.e. height between platform floor and the center line of the buttons is between 900-1100 mm.

Standard buttons are engraved with braille. The buttons are of polycarbonate plastic. Following buttons are available: -2, -1, 0, 1, 2, 3, 4, 5, 6, B, BG, BV, G, K, KV, P, U, E. Individual special characters can also be ordered as an option. Maximum 2 characters per button. These buttons will also be engraved. If a lift is ordered with any button that is not 0, 1, 2, 3 all buttons will be engraved.

44 131-0
44 131-1
44 131-2
44 131-3
44 131-ALARM

Active area 2800 mm²

0.5 mm braille

0.8 mm relief

Braille and relief profile for best tactile feeling

Black/white for best contrast

Polycarbonate plastic

Buttons 0, 1, 2, 3 can also be molded with braille. The buttons are of anodized aluminum with 2- component paint. If a lift is ordered with only buttons 0, 1, 2, 3 molded buttons will be delivered.

44 131-xx-F

Active area 2800 mm²

0.5 mm braille

0.8 mm relief

Anodized aluminum with 2-component paint

Alarm button

A standard alarm button is always delivered with the lift. When it is pressed a buzzer sounds. This is only a signal to the user that the button is pressed. The alarm button may be connected to an external alarm sounder or an autodialer.

External alarm sounder

External alarm sounder mounted outside the lift. It is connected to the alarm button and when the alarm button is pressed the external alarm sounder will give a loud signal outside the lift to attract attention in case of emergency.
Can be ordered as an option.

Handrail

A handrail is mandatory according to EN81-41 and delivered as a standard. Height of handrail is 875 mm from the platform floor. Handrail diameter is 36 mm. The ends of the handrail are closed and turned the platform.

- Anodized aluminum (standard)
- Stainless steel (option)

Light
LED lights are installed over the destination panel.

Remote control for operation of platform
A remote control is connected to the destination buttons on the platform. Instead of pressing the destination button on the platform the button on the remote control can be pressed (hold to run). Remote control with 2 to 6 buttons, with numbers 2-6. One remote control per lift. One receiver per two floors.
Can be ordered as an option.

Emergency stop button
Button in “mushroom” type for emergency situations.
Is always included as standard.


ASSA


Telemecanique

Key switch on platform
Key switch placed on destination panel. The key switch locks the platform functions and prohibits unauthorized use. One key switch per platform can be provided. The key switch can be serial connected to all destination buttons or the key switch is connected to one destination button.

Two brands to choose from:
- ASSA (Nordic markets only)
- Telemecanique

Can be ordered as option.

Landing indicator
Digital display positioned at the destination panel. It shows which floor the lift is on at the moment. The indicator can also be fitted with a voice announcer available in Danish, Dutch, English, Finnish, French, German, Norwegian, Polish, Russian and Swedish.

The landing indicator can also show information from the system.
- Warning if the batteries are low.
- A bell when the alarm button has been pressed.
- Number of starts and total run time since installation or since last reset.
- A weight symbol will appear if the lift is overloaded.
- If connected to the buildings fire alarm a “Fire” symbol will be shown when alarm is activated.

Can be ordered as an option.

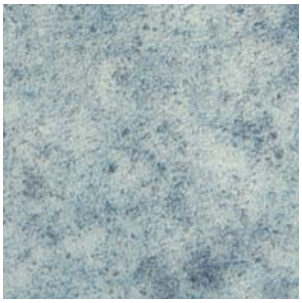
Carrier - Vector

Flooring

Choose between the following options for vinyl, rubber and aluminum floorings:

Standard:

Beige
Vinyl



Blue
Vinyl

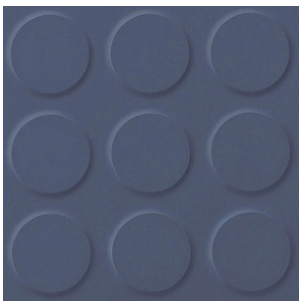
Sand
Vinyl

Grey
Vinyl

European oak
Vinyl

Classic Beech
Vinyl

Option:



Checker Stud – Blue Rubber

Checker Stud – Black Rubber

Aluminum*

*Aluminum flooring is not available for Vector platform 900x1040 mm.

Landing door
Vector

News. New door profiles possible to paint in any RAL-colour.

Landing door - Vector

General information

The landing doors installed at each landing are made of toughened galvanized steel and laminated and toughened glass, 8 mm thick.
All doors are painted in RAL 9003 (White) but can be painted in any RAL colour as an option. The door frame and door blade can be painted in same colour or the frame in one colour and the blade in another colour. For the same lift all doors must be painted in the same colour.
A glassed area according to EN81-41 is standard for all doors. Standard is with clear glass (JT0). Optional is to have tinted (JT16), dark tinted (JT5) or frosted glass (JT23).
The profiles around the glass are made of aluminium. The profiles can be painted in any RAL colour. If the door blade is in RAL 9003 (White) the profiles can be painted in the same colour as an option. If the door blade is painted in another RAL colour, the profiles will be in aluminium as standard, but can be painted in the same RAL colour as the door blade as an option. Note that aluminium profiles are standard and that painted profiles are an option.
All doors can be left- or right hinged. Doors are always delivered with door frame. It is not possible to order the door or the frame separately.

Large glass door

Large glass door with one glass window.

Opening widths:
800, 900, 1000 mm

Opening heights:
1800, 1900, 2000, 2100 mm
The actual height of the door is 40 mm higher since a plate that covers the joint between the door and the frame is mounted on the door.

Glass window (vision):
612x1472 mm (800 mm wide door)
712x1472 mm (900 mm wide door)
812x1472 mm (1000 mm wide door)

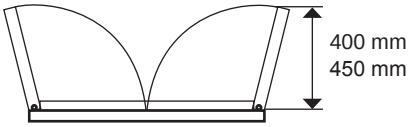
Standard:
• Door blade and door frame in RAL 9003 (White)
• Glass window: clear glass (JT0)

Options:
• Door blade and /or door frame in other RAL colour
• Glass window: tinted (JT16), dark tinted (JT5), frosted (JT23)

Door opening width (mm)	Door opening height (mm)	Available for B-side (mm)	Available for A/C side (mm)
800	1800[1)]/1900/2000/2100	1040	900
900	1800[1)]/1900/2000/2100	1280/1480/1580/1980	1000/1100
1000[1)]	2000/2100	1280/1480/1580/1980	1100

[1)] Not available for outdoor lifts.

Landing door - Vector



Double-hinged glass door

Double hinged glass doors are made of 17,5 mm laminated glass and always delivered with two internal door openers which opens the doors automatically. If the space in front of the door is limited it is a good solution to use the double hinged glass door.

Opening width:	800, 900 mm
Opening height:	2000 mm The actual height of the door is 40 mm higher since a plate that covers the joint between the door and the frame is mounted on the door
Door blade:	Two blades 400 and 450 mm wide
Glass window: (vision)	Two glasses 332x1950 mm or 394x1950 mm
Installation:	Not for outdoor lifts

Standard:
- Door blade and door frame in RAL 9003 (White)
- Glass window: clear glass (JT0)

Options:
- Door blade and /or door frame in other RAL colour
- Glass window: tinted (JT16), dark tinted (JT5), frosted (JT23)

Vector:

Door opening width (mm)	Door opening height (mm)	Available for B-side (mm)	Available for A/C-side (mm)
800	2000	1040	900
900	2000		1000/1100

Landing door - Vector

EI60 – Fire & smoke proof door

EI60 – Fire & smoke proof door complies with the lift directive 95/16/EC and EN 81-58. As standard the EI60 door is delivered with a frame.

Opening width: 800, 900, 1000 mm

Opening height: 1900, 2000, 2100 mm
The actual height of the door is 20 mm higher since a plate that covers the joint between the door and the frame is mounted on the door.

Installation: Not in combination with half height door or for outdoor lifts.

Standard:

- Door blade and door frame in RAL 9003 (White)
- Glass window: clear glass (JT0)

Options:

- Door blade and /or door frame in other RAL colour

Door opening width (mm)	Door opening height (mm)	Available for B-side (mm)	Available for A/C side (mm)
800	1900/2000/2100	1040	900
900	1900/2000/2100	1280/1480	1000/1100
1000	2000/2100	1280/1480	1100

EI60 – Fire & smoke proof door frame

A door frame is always delivered with the door. The size of the frame depends on platform or cabin size and the door opening width and height. The height of the frame is always 220 mm higher than the door opening height.

Door opening height (mm)	Frame height (mm)
1900	2120
2000	2220
2100	2320

A/C-side

Platform side (mm)	Frame size (mm)
900	1060
1000	1160
1100	1260

B-side

Platform side (mm)	Frame size (mm)
1040	1060
1280	1300
1480	1500

For B-side 1580 mm and 1980 mm fire doors are not available.

Widening panel for A and C side - Vector

As an option a widening panel for the A- and C -side can be ordered to cover the machine side part. The widening panel is available with or without a hatch for the electrical cabinet. The widening panel is available for door opening height 1900, 2000 and 2100 mm and has the same height as the door frame. The width of the panel is 213 mm.

Landing door - Vector

Half height door with glass

Half height door with one glass window. If you require an open shaft or if the head space is low, the use of a half height door may be a good solution. According to EN81-41 the half height door is only allowed for lifts with a travel height up to 3 meters (within EU). The half height door can not be combined with EI60 fire & smoke proof doors.

Opening widths : 800, 900 mm
Opening heights: 1100-1600 mm
Glass windows: 612x670 mm (800 mm wide door)
(vision) 712x670 mm (900 mm wide door)

Installation: Not for outdoor lifts

Standard:
- Door blade and door frame in RAL 9003 (White)
- Glass window: clear glass (JT0)

Options:
- Door blade and /or door frame in other RAL colour
- Glass window: tinted (JT16), dark tinted (JT5), frosted (JT23)

Note that when using a half height door 1100-1600 mm the shaft and the half height door will end at the same height. It is not possible to have a higher shaft than the half door.

Door opening width (mm)	Door opening height (mm)	Available for B-side (mm)	Available for A/C-side (mm)
800	1100 1101-1600[1)]	1040	900
900	1100 1101-1600[1)]	1280/1480	1000/1100

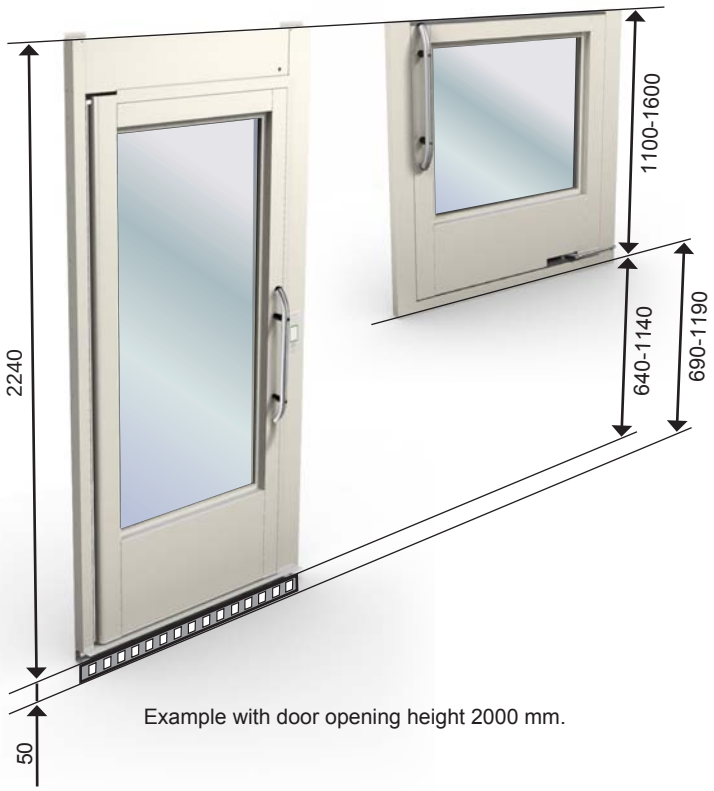
[1)] Custom height

A half height door can be used in the following cases:

- *1100 mm high half height door:*
  When you have an open shaft and a top height of 1100 mm (even shaft).
- *1101-1600 mm high half height door:*
  When you have a low travel height with a standard door or a door with frame top on the bottom floor and a custom height half height door is needed to get an even shaft (see page 17 for details).
  When you have a higher travel height, but a standard door or a door with a frame top on second top floor and a custom height half door is needed to get an even shaft.
- It is not possible to have a lower half height door than the top height of the shaft – this means that you can´t have a 1100 mm height door on a lift with shaft height of for example 1400 mm.
- Note that it is not possible to have two half height doors on the same lift.

Landing door - Vector

When using a customed height half door, consider the following criteria regarding travel height. Note that the travel height is depending on if the lift is installed with or without a pit.



Example with door opening height 2000 mm.

For large glass door, double glass door and double hinged glass door.

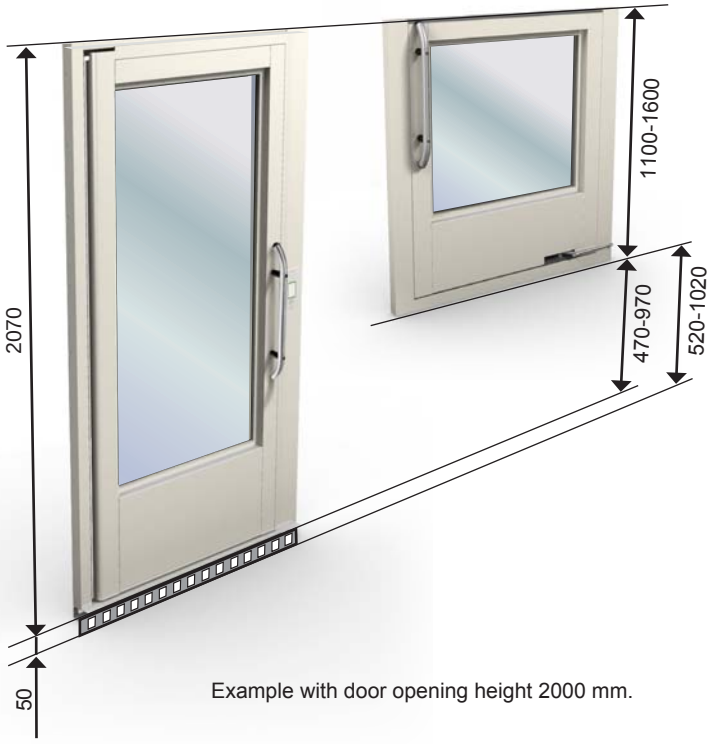
Door opening height (mm)[1)]	Travel height when a ramp on first level (mm)	Travel height with a pit on first level (mm)
1800	490 – 990	440 – 940
1900	590 – 1090	540 – 1040
2000	690 – 1190	640 – 1140
2100	790 – 1290	740 – 1240

[1)] The height of the frame is always 240 mm higher than the door opening height.

For large glass door and double glass door with 50 mm frame top.

Door opening height (mm) [1)]	Travel height when a ramp on first level (mm)	Travel height with a pit on first level (mm)
1800	320 – 820	270 – 770
1900	420 – 920	370 – 870
2000	520 – 1020	470 – 970
2100	620 – 1120	570 – 1070

[1)] The height of the frame when using a 50 mm frame top is always 70 mm higher than the door opening height.



Example with door opening height 2000 mm.

Landing door - Vector

Example with door opening height 2000 mm.

Door frame

A door frame is always delivered with the door. The size of the frame depends on the platform/cabin size and the door opening width and height.
The height of the frame is always 240 mm higher than the door opening height.

Door opening height

The actual height of the door is 40 mm higher since a plate that covers the joint between the door and the frame is mounted on the door. For door opening height 2000 mm the actual door height is 2040 mm.

Example with door opening height 2000 mm.

Frame size:

Vector:

Door opening height (mm)	Frame height (mm)
1800	2040
1900	2140
2000	2240
2100	2340

A/C -side

Platform side (mm)	Frame size (mm)
900	1060
1000	1160
1100	1260

B -side

Platform side (mm)	Frame size (mm)
1040	1060
1280	1300
1480	1500
1580	1600
1980	2000

Frame top - 50 mm Vector

If space is limited on the top floor or you like to have an even shaft at low traveling heights, a 50 mm frame top instead of the standard door frame can be delivered. With the 50 mm frame top the height of the door frame will be 70 mm higher than the door opening height. Using a standard door frame the height of the frame will be 240 mm higher than the door opening height.

For a door with opening height of 2 000 mm:

- With the 50 mm frame top, the door frame is 2070 mm (70 mm higher than door opening height)
- With a standard door frame, the door frame height is 2240 mm (240 mm higher than door opening height).

Frame top is available for large glass door and indoor installations. It is not available for EI60 Fire & smoke proof doors and double hinged glass doors. Note that only external door opener and closer are available for doors with frame top. Internal door opener and closers are not available since there is not enough space in the door frame.
The frame top is available for top floor only.

Example with door opening height 2000 mm.

Displacement of door on B-side

If it is not possible to fit the door on the B-side in the standard location, it is possible to place the door to the left or to the right. This is only possible for doors with door opening width 900 and 1000 and for doors on B-side; 1280, 1480, 1580 and 1980 mm. Large glass doors and half height doors for indoor installations can be displaced. It is not possible to displace EI60 fire & smoke proof doors or double hinged glass doors or for outdoor lifts.

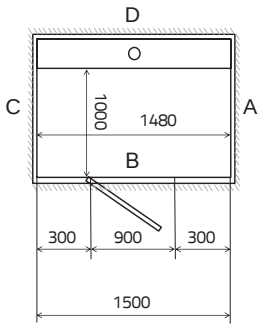
Door opening 900 mm.

Platform size on B-side (mm)	Frame size (mm)	Standard frame (mm)	Displaced to the left (mm)	Displaced to the right (mm)
		Left / Right side of door	Left / Right side of door	Left / Right side of door
1280	1300	200 / 200	130 / 270	270 / 130
1480	1500	300 / 300	130 / 470	470 / 130
1580	1600	350 / 350	130 / 570	570 / 130
1980	2000	550 / 550	130 / 970	970 / 130

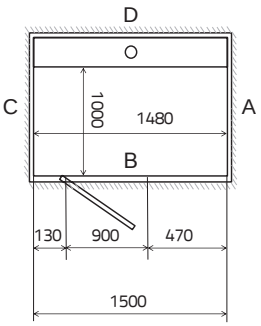
Door opening 1000 mm.

Platform size on B-side (mm)	Frame size (mm)	Standard frame (mm)	Displaced to the left (mm)	Displaced to the right (mm)
		Left / Right side of door	Left / Right side of door	Left / Right side of door
1280	1300	150 / 150	130 / 170	170 / 130
1480	1500	250 / 250	130 / 370	370 / 130
1580	1600	300 / 300	130 / 470	470 / 130
1980	2000	500 / 500	130 / 870	870 / 130

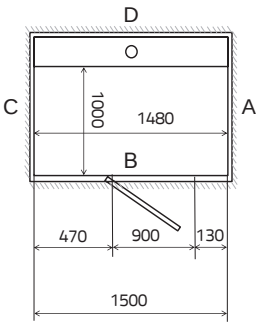
Examples of possible displacement of door on B-side (door opening 900 mm, platform size on B-side 1480 mm, frame 1500 mm) :



Standard frame



Displaced to the left

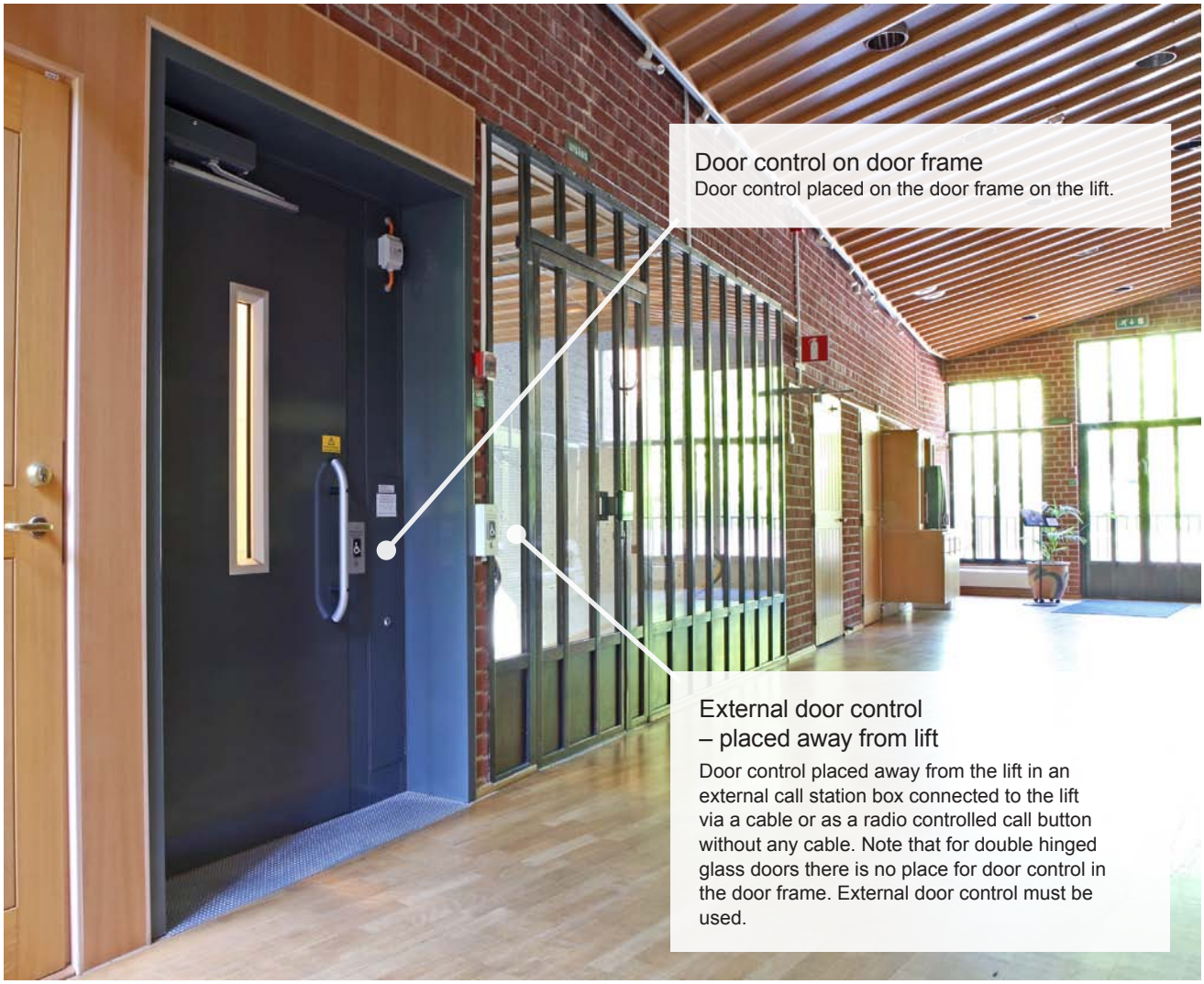


Displaced to the right

Landing door - Vector

Door control

The door control is either placed on the door frame of each landing door and/or placed away from the lift as an external control.



Door control on door frame

Door control placed on the door frame on the lift.

External door control – placed away from lift

Door control placed away from the lift in an external call station box connected to the lift via a cable or as a radio controlled call button without any cable. Note that for double hinged glass doors there is no place for door control in the door frame. External door control must be used.

Door faceplate

The door faceplate can be placed directly on the door frame or externally in an external call station box. Door faceplate is in standard in anodized aluminum. As an option it can be delivered in stainless steel.

The door faceplate can hold:

- Call button
- Key switch Telemecanique/School locking
- Key switch prepared for Assa/School locking
- Key switch prepared for EUR/School locking
- Call button and key switch with Telemecanique/School locking
- Call button and key switch prepared for ASSA/ School locking
- Call button and key switch prepared for EUR/ School locking
- Call button and sensor - with remote control

Landing door - Vector

Call button

The call button comes with a background lit frame which indicates the status of the lift.

- Green light indicates that the lift is at your floor. Lit only on the floor where the platform is at the moment.
- Red light indicates that the lift is occupied. It is busy and you can't call for it.
- The flashing light indicates that the security circuit is broken, e.g. that the emergency button is pressed, the door is open on another floor for more than one minute, the door is blocked or the safety frame is pressed down. The flashing light can also be activated by a sum alarm, more information is then available in the service memory.

The same call button is used when the door control is placed on the door frame, externally or as a radio controlled call button.

Key switch / School locking

Instead of having a normal call button on the door faceplate you can have a key switch. You then need to have the key to be able to call for the lift and to access the lift.
Includes school locking function which automatically locks the door 10 seconds after it is closed.

Two brands to choose from:

- ASSA (Nordic markets only).
- EUR
- Telemecanique

Access BDD can provide one key switch per door.

Radio controlled call button

The radio controlled button, placed in a white plastic box, gives the customer the freedom to place the call button wherever they would like within 10 meters from the lift. The radio controlled call button runs on batteries and provides remote controlled access to the lift.
The call button has the same function as the one placed in the door faceplate.
Can be ordered as an option.

External call station box

The door faceplate can be placed away from the lift and will then be placed in an external call station box. The colour of the external call station box is RAL 9003 (White) . The box can either be mounted exterior on a wall (wall mounted) or in the wall so that you only see the door faceplate (flush mounted). The length of the cable delivered with the external call station box is 1,5 m as standard. As an option a 10 m long cable can be ordered.

Size flush mount: 82x150x50 mm
Size wall mount: 95x185x50 mm

Landing door - Vector

Door machinery

The landing doors are always delivered with either a door opener or a door closer. Depending on the door type you can either have it mounted internally (in the door frame so that you can't see it from the outside) or externally (in a box visible from the outside).

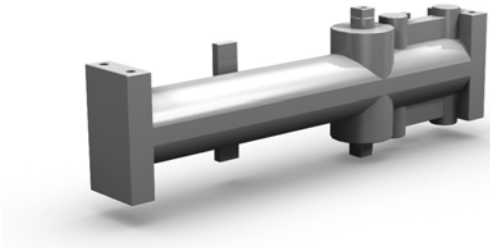
Door opener: Opens and closes the door automatically. Door open time and the opening speed are adjustable.

Door closer: Door is opened manually. The door is closed automatically after a preset time.

All openers and closers are available for both left and right hinged doors.

When having two doors on the same landing, both doors will be opened at the same time when having door openers.

Door type	Internal door closer	Internal door opener	External door closer	External door opener
Large glass door				
• Standard	●	●	●	●
• With 50 mm frametop			●	●
Half height glass door	●	●		●
EI60 – fire & smoke proof door	●			●
Double hinged glass door		●		
Outdoor lifts	●		●	●



Internal door closer

Closes the door automatically after a preset time.
It is built into the door frame and is invisible form the outside.
Includes function to keep door open until the user manually closes the door. Standard for all doors except large glass doors with 50 mm frametop.

External door opener

Opens and closes the door automatically after a preset time.
Can be ordered as option. Cover and sides painted in RAL 9003 (White) as standard. If the door blade is painted in another color, the cover will be painted in the same color. The sides will still be in White.

External door closer

Closes the door automatically after a preset time.
Can be ordered as an option.

Internal door opener

Opens and closes the door automatically. It is built into the door frame and can't be seen from the outside.
Can be ordered as option.
Standard for double hinged glass doors.

Hold open arm

Keeps the door open until the user manually closes the door.
Can be combined with external door closer only.
Can be ordered as an option.

Landing door - Vector

Door handle

Door handle with a diameter of 30 mm is delivered as standard to all doors (except for double hinged glass doors, where no door handle is needed).

- Anodized aluminum (standard)
- Stainless steel (option)

Landing indicator on door

Digital display positioned at the door frame. It shows which floor the lift is on at the moment.
The landing indicator can also show following system information:

- Warning if the lift batteries are low.
- A bell when the alarm button has been pressed.
- Number of starts and total run time since installation or since last reset.
- A weight symbol will appear if the lift is overloaded.
- If connected to the buildings fire alarm a “Fire” symbol will be shown when alarm is activated.

Ramp

If the lift is installed without a pit a ramp is mandatory according to EN81.41. The ramp is made of galvanized steel covered with corrugated aluminum to prevent slipping. The vertical rise of the ramp is less than 1:4. The ramp can be ordered as an option for lifts installed without a pit.
Ramp dimensions for Vector: Height 50 mm, width 420 mm, length 1160 mm.

Arrival gong

The arrival gong gives an audible signal (ding dong) when the platform arrives at each landing. It is placed in the door frame on each landing.
Can be ordered as an option.

Cover plate

If the door control is placed externally and not on the door frame a cover plate that covers the hole in the door frame is delivered with the lift. The cover plate is always delivered with the lift in the same colour as the door frame. Standard colour is RAL 9003 (White).

Shaft
Vector

News. New shaft profiles possible to paint in any RAL colour.

Shaft - Vector

Shaft

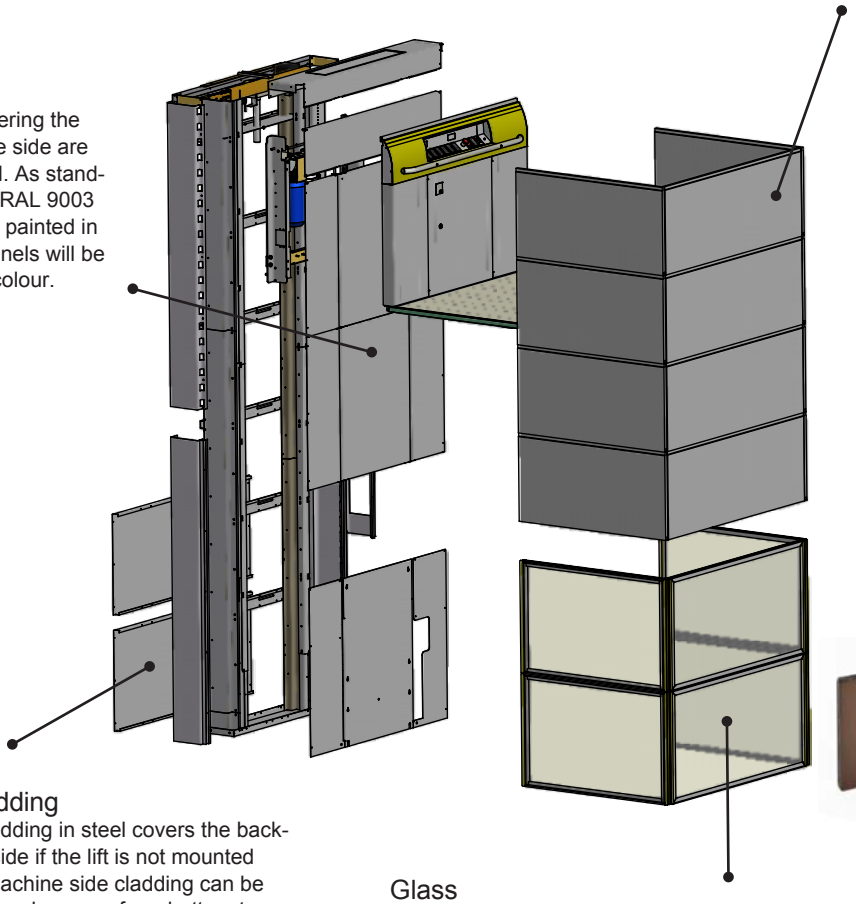
The lift is always delivered with a self supporting shaft. The lift always comes with cladding panels on the inside of the shaft on the machine side. If the lift is not installed against a wall, machine side cladding can be added on the outside of the lift to cover the machine side. For all sides except for the machine side you can choose to have shaft panels in steel or glass.
The top height of the shaft for Vector is not fixed. When having a standard door on the top floor, the minimum top height depends on the door opening height and the frame height. For a door opening height of 2000 mm the standard frame height is 2 240 mm, which is the lowest top height. Higher top height can be ordered.

Shaft panels

Standard is 25 mm thick shaft panels with EPS (polystyrene) core and steel plates.
The panels are painted in RAL 9003 (White) as standard. If the shaft is painted in another colour the shaft panels will be painted in the same colour and the shaft panels will have a rock-wool core.
The height of the shaft panel is 575 mm.

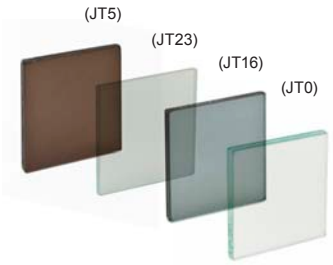
Cladding panels

Cladding panels covering the inside of the machine side are delivered as standard. As standard the panels are in RAL 9003 (White), but if shaft is painted in another colour the panels will be painted in the same colour.



Machine side cladding

The machine side cladding in steel covers the backside of the machine side if the lift is not mounted against a wall. The machine side cladding can be ordered as an option and can run from bottom to top height. It can also be ordered partly if the lift is partly mounted to a wall. The cladding is painted in same colour as shaft panels.
Size: Travel height plus top height.



Glass

As an option glass panels with laminated and toghened glass can be ordered. Standard is clear glass (JT0). Option with tinted (JT16), dark tinted (JT5) or frosted (JT23) glass.
The glass panels are 8 or 10 mm thick depending on the size of the glass. Glasses which are higher than 1000 mm is always 10 mm.
The glasses are fitted in aluminium profiles. These profiles are in aluminium as standard, but can be painted in a RAL colour as an option. For a shaft painted in the RAL 9003 (White) the profiles can be painted in the same colour. For a shaft painted in another RAL colour the profiles are as standard aluminium. As an option the profiles can be painted in the same RAL colour. Note that this has to be ordered separately.

Shaft inner ceiling

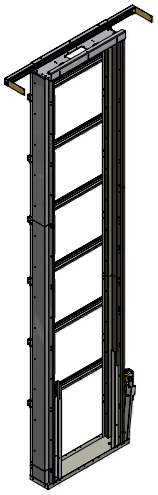
For a closed shaft you can add a shaft inner ceiling as an option. The inner ceiling is painted in RAL 9003 (White) as standard, but will be painted in the same colour as the shaft if the shaft is painted in another colour. Choose between the following options, which complies with LUX regulations:
• LED lights or with fluorescent lamp
• Fluorescent lamp (not for 900x1040 mm platform)

Shaft panels / glass with aluminium profile:

Height (mm)	Clear glass (JT0)	Dark tinted glass (JT5)	Tinted glass (JT16)	Frosted glass (JT23)
736	●	●	●	●
1472	●			
2208	●			
Customized [1)]	●	●	●	●

[1)] Additional cost per mm. Maximum height per glass panel is 2500 mm

Shaft - Vector



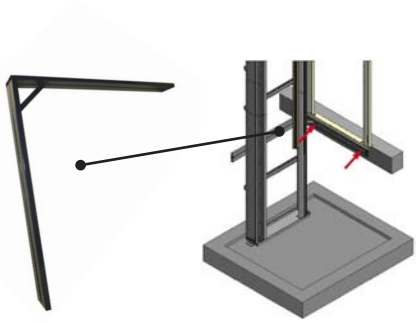
Mast

For Vector the lift can be delivered in different ways, depending on the length of the lift.

- For travel heights 2 465 -13 000 mm the mast is always delivered in parts.
- For travel heights 1 720 – 2 464 mm the mast is delivered in parts as standard, but can be delivered in one part if required.
- For travel heights up to 1 720 mm the mast is always delivered in one part.
- For travel heights up to 2 464 mm it is possible to have the mast prepared for splitting.

Electrical cabinet

The standard position of the electrical cabinet is in the shaft, at the upper floor where the landing door is located. If the standard position of the electrical cabinet proves difficult we offer the option to move it to another landing or to place it externally in a locable casing.
For Vector with platform size 900 x 1040 mm the electrical cabinet is mounted behind the platform panel and in the top of the shaft.
Size of standard electrical cabinet (placed in shaft): 180 x 880 mm.
Size of external electrical cabinet (placed in an external box): Height 500 mm, depth: 160 mm, width: 400 mm.



Shaft support bracket / L-bracket

Installed to stabilize the shaft when it is not mounted against a wall. One shaft support bracket shall be used per floor, except the bottom floor.
Available in three sizes – one to fit platfom width 1040, one for 1280, 1480 and 1580 and one for 1980 mm.

External service panel

A service panel is always placed in the electrical cabinet.
It is used to run tests etc., and for emergency running the lift.
An external service panel is available for mounting outside the lift as an option. In this case a wire connects it with the service panel in the electrical cabinet.
For Vector with platform size 900 x 1040 the electrical cabinet and the standard service panel is mounted in the top part of the shaft and can´t be reached from outside. Therefore it is connected to an external service panel which is mounted in a wall mounted box. The external service panel must be activated with a 3-edge key before it can be used.
Size: 95 x 185 mm.

Extra anti-rust protection

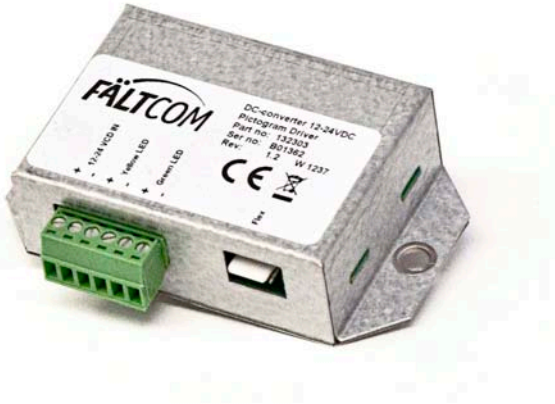
In order to protect the lift when exposed to humid environments, e.g. when sea transport or when the packed lift is exposed to humid conditions during transport or at the installation site, the lift is delivered with yellow chromate guides. Can be ordered as an option.

Communication - Vector

Two way communicaion is mandatory according to EN81-41. Choose from one of the following options or install your own phone.

Autodialer

Equipment for emergency calls. Integrated on the destination panel. Dials automatically when the alarm button is pressed.
When unanswered after a predefined time, the call is automatically forwarded to the next number.
The autodialer can be equipped with a GSM module.



DC converter

When more autodialers are connected in series on one phone line the power on the phone line is not enough to drive more than one autodialer. In this case, a DC-converter is needed for each lift. The DC-converter 12-24 V is used as external power supply for the autodialer.

Phone

The telephone works as a standard telephone but is intended for emergency calls. The phone is mounted on the platform panel. Equipped with redial memory, mute button and a lamp indicator for on/off.
Can be equipped with a GSM module.

Drive - Vector

Power supply

For Vector you have the following options:

3-phase 400V 50 Hz/5.2 A/16 A slow
- Standard for all lifts
- For 250, 410 and 500 kg
- Can also be delivered for 60Hz

3-phase 400V 50 Hz/5.2 A/16 A slow - frequency converter
- Option
- Frequency converter with built in soft start and stop
- For 250, 410 and 500 kg

1-phase 230V 50 Hz/9 A/16 A slow
- Option when building don´t support 400V 3-phase
- Frequency converter with built in soft start and stop
- For 250 and 410 kg

3-phase 230V 50 Hz/9 A/16 A slow
- Option
- Note that this is rarely used except for example in Norway
- For 250, 410 and 500 kg
- Can also be delivered for 60Hz

Soft start

It provides a smoother start when pressing a destination button. For Vector 3-phase lifts, soft start can be ordered as an option. It is not available for 1-phase lifts, as they come with a frequency control as standard which includes both soft start and stop. For 500 kg lifts soft start is included as standard.

Battery Guard

The battery guard ensures that the batteries are not damaged and that there is enough power so that you can run the lift in the case where the power to the lift is cut. It ensures that the lift is turned off (all power consumers are turned off) when the power of the batteries reaches 22 V. This means that even if the power on site is turned off the batteries in the lift will not be discharged and you can still run the lift. The battery guard can be order as an option.

Lubrication

The screw must be oiled at regular intervals.

Manual Lubrication. A brush fixed to the platform oils the screw when using the lift (a tray with lubrication oil in the bottom of the shaft). Standard for Vector.

Automatic Lubrication. Oils the driving screw at regulated time intervals even if the lift is not in use. The lubrication frequency is adjustable. Option for Vector. Standard for lifts with a travel height of over 8000 mm. Recommended for lifts that are seldom used or that are not used regularly to travel from ground to top floor.

Manual emergency lowering

Manual emergency lowering with a winch is standard for Vector.

Battery operated emergency lowering

You can lower yourself from inside the lift and get out by yourself when there is a power failure. Possible to run the lift to nearest level from the platform/cabin (possible to go down) - Executed when pressing a platform/cabin button. Can also be run externally from the call button (hold to run) or service box.
Mandatory if the position of the electrical cabinet is on an alternate landing than the top floor. Battery operated emergency lowering is mandatory for Vector platform size 900 x 1040 mm since the electrical cabinet is mounted behind the platform panel and in top of the shaft and therefore can´t be reached from outside.

Phase sequence relay

Extra protection and to secure that the lift does not run in the wrong direction when the phases are connected incorrectly. Option introduced for 3-phase lifts (not needed for 3-phase with frequency converter).


Keramische Welten
Höhr-Grenzhausen

Outdoor execution - Vector

Outdoor execution

Vector for outdoor execution is designed for outside use and equally suited to cool northern conditions as well as hot sunny climates. All outdoor lifts are delivered with yellow chromate guides to avoid corrosion. The outdoor execution consists of different options that enable an outdoor installation. Depending on the installation environment different options must be added and the installation conditions are specified below must be followed.

Conditions for installation:
Environment temperature max + 40° down to -5°C.
If the lift is going to be installed in colder climate than -5°C, an externally insulated and heated shaft must be built around the lift.

Windload up to 10 m/s
Protection against wind loads over 10 m/s is required. In areas where it can be
expected to be more wind load than 10 m/s, Access BDD recommends a windshield or an external building around the shaft.

Snow load max 2kN/m2.
Snow load zone according to EN 1991-1-3. For higher snow loads an external shaft / roof must be installed.

Installation above ground level and with a drained pit.
The lift must be installed above ground level and water should be directed away from the lift. The lift pit must be drained and the pit shall also be protected from freezing. The lift is not water tight and water can leak into the lift via landing doors or shaft.

Installation is not recommended in salt or chlorine enhanced environment.
For example the lift must not be installed close to see or close to a swimming pool.

Installation only outdoor
The lift must be installed only outdoor, i.e. with all landing doors towards the outside. The lift must not be installed with landing doors that go into the building. Otherwise the lift can be subjected to downdraughts with condensation problems as a consequence.

Included in standard when ordering an outdoor lift:
- Yellow chromate guides to avoid corrosion
- IP rated call button
- Electrical cabinet cover sealed
- Screw sprayed with oil
- A special oil, aimed for outdoor usage must be used (lower temperature grading)
- To avoid water leakage, all joints on top roof are to be sealed after installation. One corner in the top roof is left open for water outlet. (Sealing paste – included in the delivery).
- Ventilation fan in top of shaft, with upper panel with fan holes and lower panel with ventilation holes are mandatory for all outdoor lifts.

Options to be ordered depending on installation:
- If the lift is installed outside and rain can reach the machine side, a machine side cladding must be used.
- If the lift is not installed in an external shaft an outer roof must be used. Inner ceiling with light (LED or fluorescent lamp) – must be ordered for outdoor lifts when ordering a roof.
- Heater installed in bottom of the shaft, with bottom panel with ventilation holes – option recommended for cold climates.
- If the lift is installed outdoor and there is no roof over the doors, door canopies must be installed over the doors. – Option recommended for outdoor lifts.

Access BDD reserves the right to deny warranty claims if the lift is not installed in the right environment and if necessary equipment is not used.

Outdoor execution available for the following platform sizes:

Platform size	Outdoor installation
1000x1480 mm	●
1100x1480 mm	●

Please note that the following are not possible for outdoor lifts:

Doors:
- Large glass doors with width 1000 mm
- Large glass door with height 1800 mm
- Double hinged glass door – all sizes
- EI60 doors – all sizes
- Half height doors – all sizes
- 50 mm frame top – all doors
- Displacement of door on B-side

Door opener / closer:
- Internal door openers

Roof

Roof for outdoor execution. If the lift is not installed in an external shaft an outer roof must be used. One roof corner is left open for water outlet. The roof is made of galvanized steel and painted in RAL 9003 (White) as standard. If the shaft is painted in another RAL colour the roof will be painted in the same colour. Available as option.
An inner ceiling with light (LED or fluorescent lamp) must be ordered for outdoor lifts when ordering a roof.

Door canopy

A sloping roof placed above the landing doors to protect them from rain and snow etc. The door canopy is made of galvanized steel and painted in RAL 9003 (White) as standard. If the shaft is painted in another RAL colour the door canopy will be painted in the same colour. Door canopy is only available for 900 mm wide doors.
If the lift is installed outdoor and there is no roof over the doors, door canopies must be installed over the doors. Option recommended for outdoor lifts.
Width: 1160 mm
Slope angle: 23°

Ventilation fans

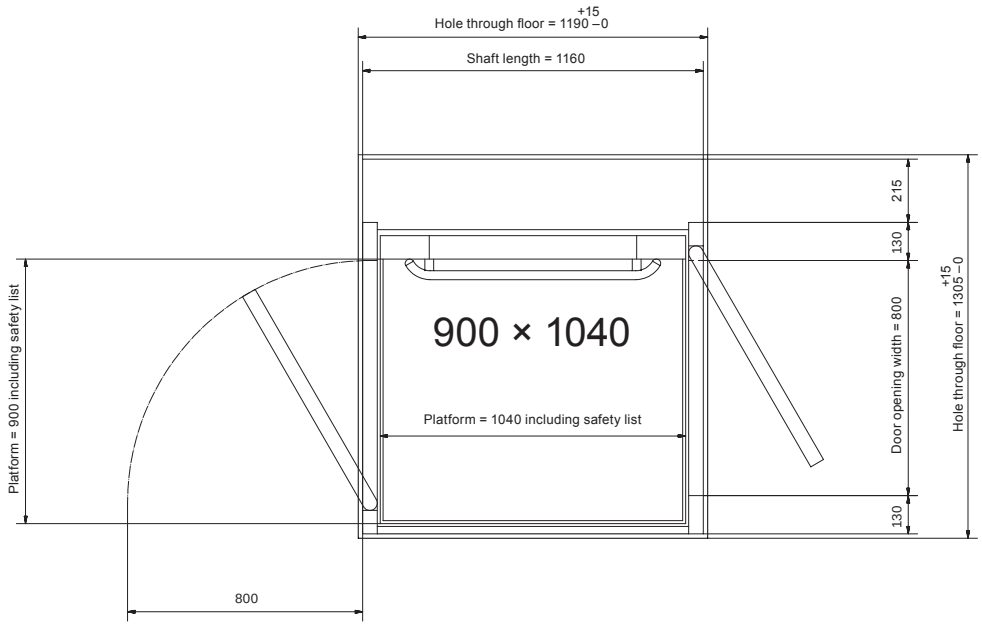
Ventilation fans mounted in top of the shaft. Two axial fans 230 V, 12 W. The fans are connected to an external power socket, 230 V.
The fans are mandatory for outdoor lifts.

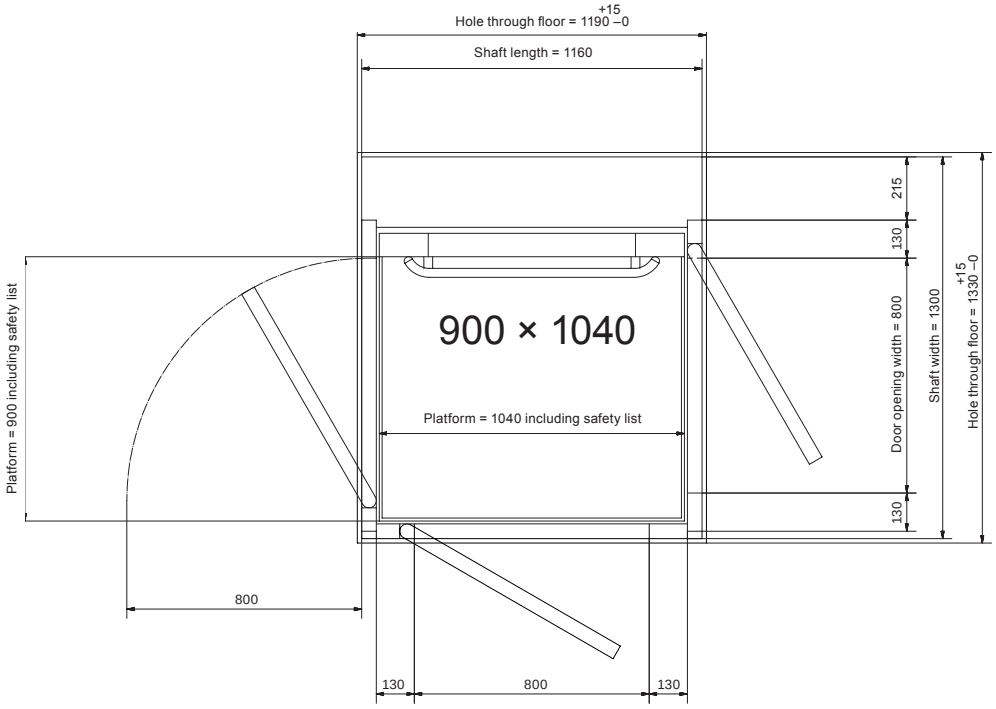
Heater

A heater placed in the bottom of the shaft is recommended for cold climates. Can be ordered as an option .The heater of 2000 W must be connected to an external power socket. Note that for colder climates than -5°the lift must be installed in an external heated shaft.

Drawings - Vector

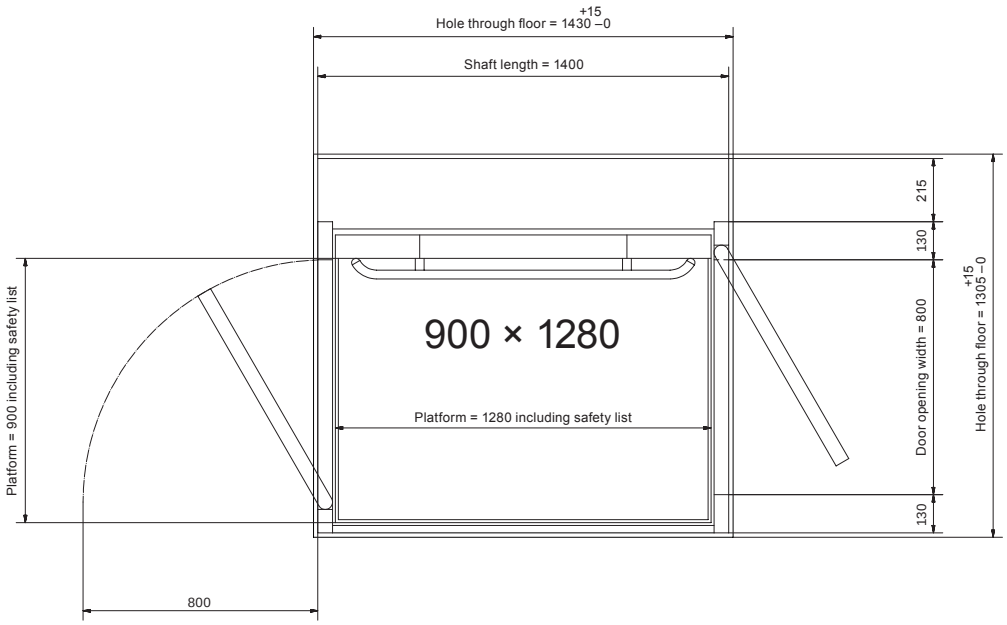
Platform 900 × 1040

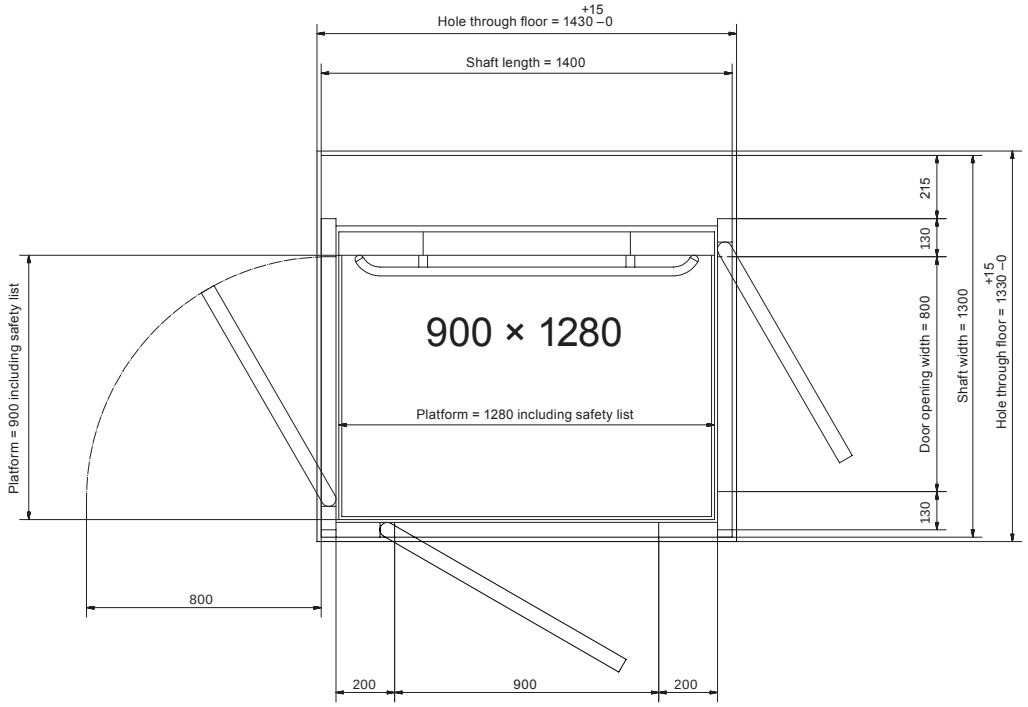




Drawings - Vector

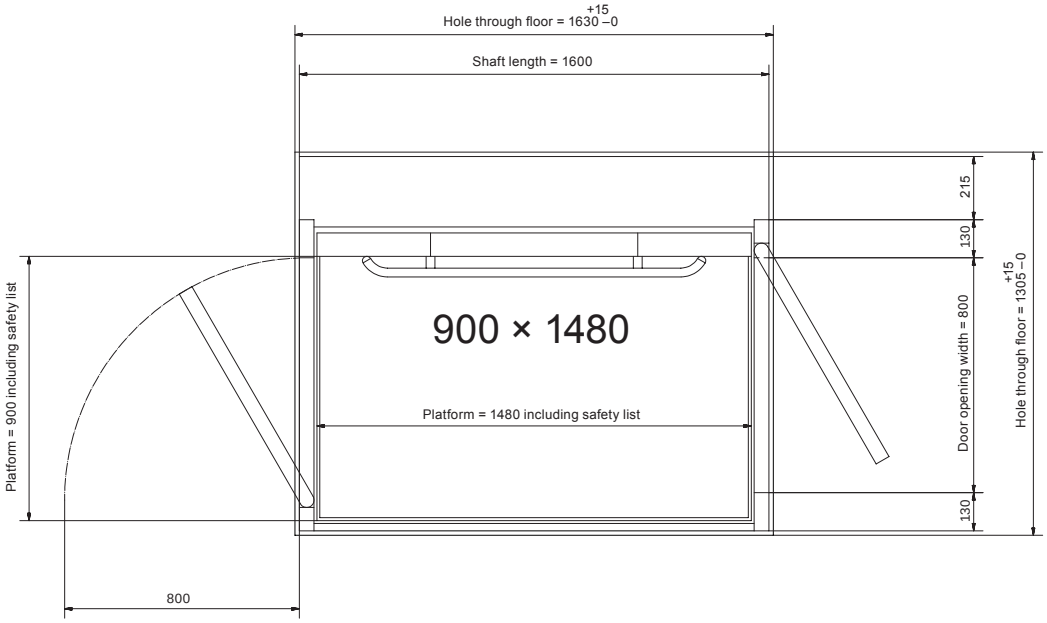
Platform 900 × 1280

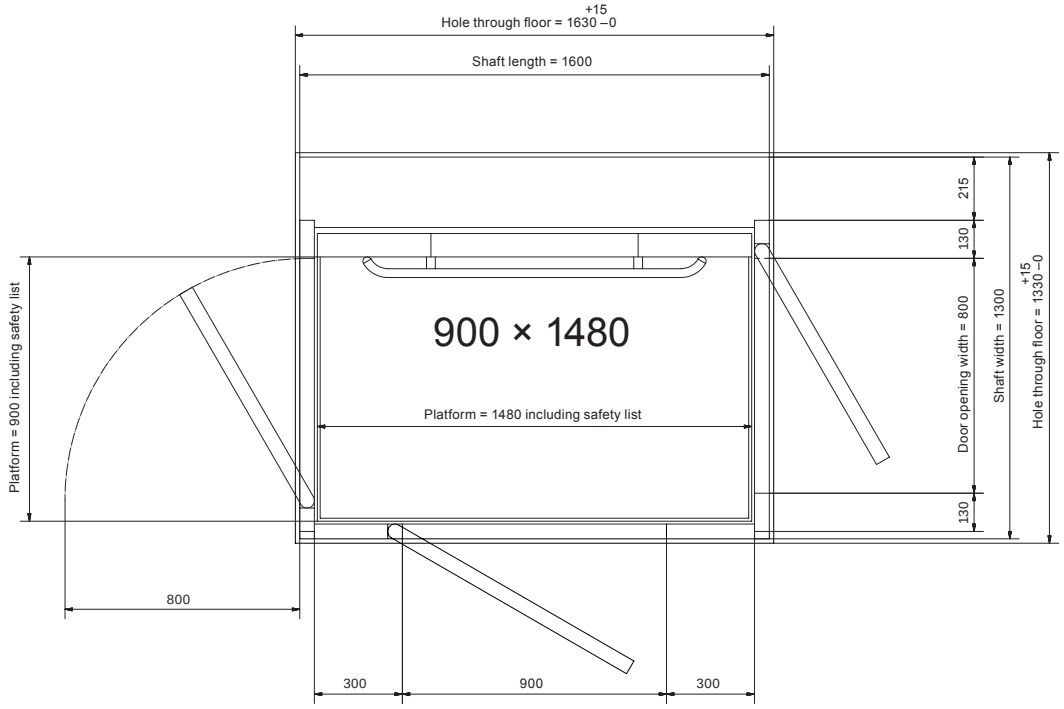




Drawings - Vector

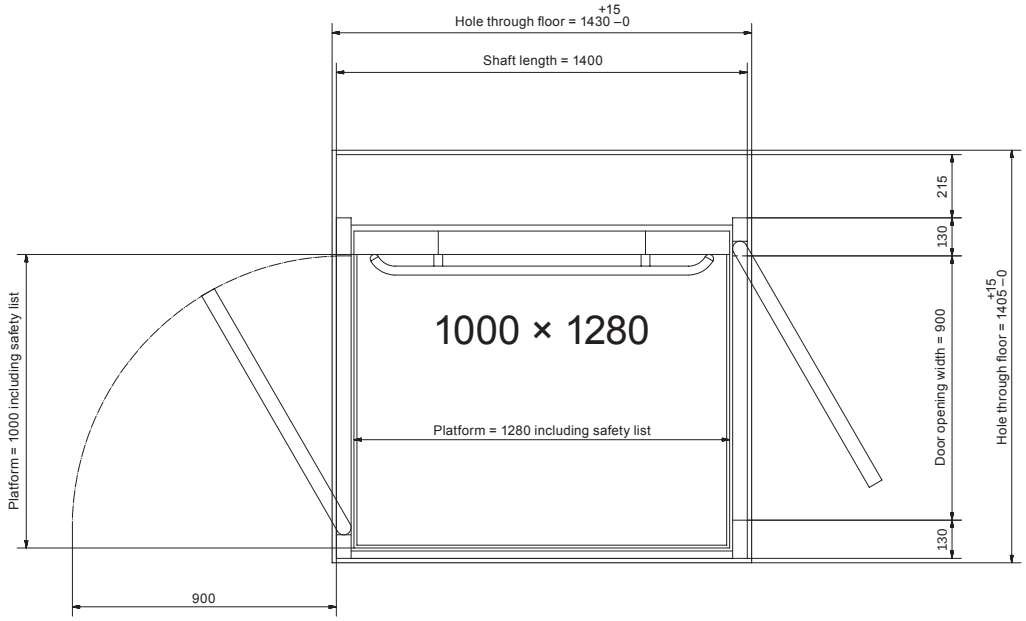
Platform 900 × 1480

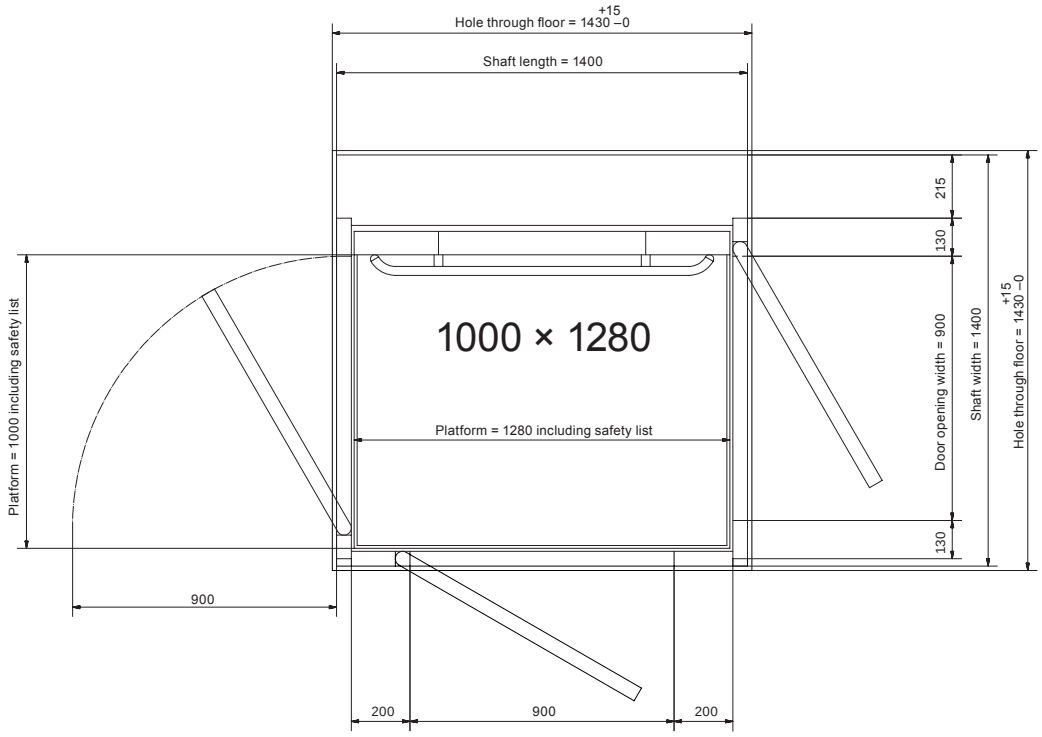




Drawings - Vector

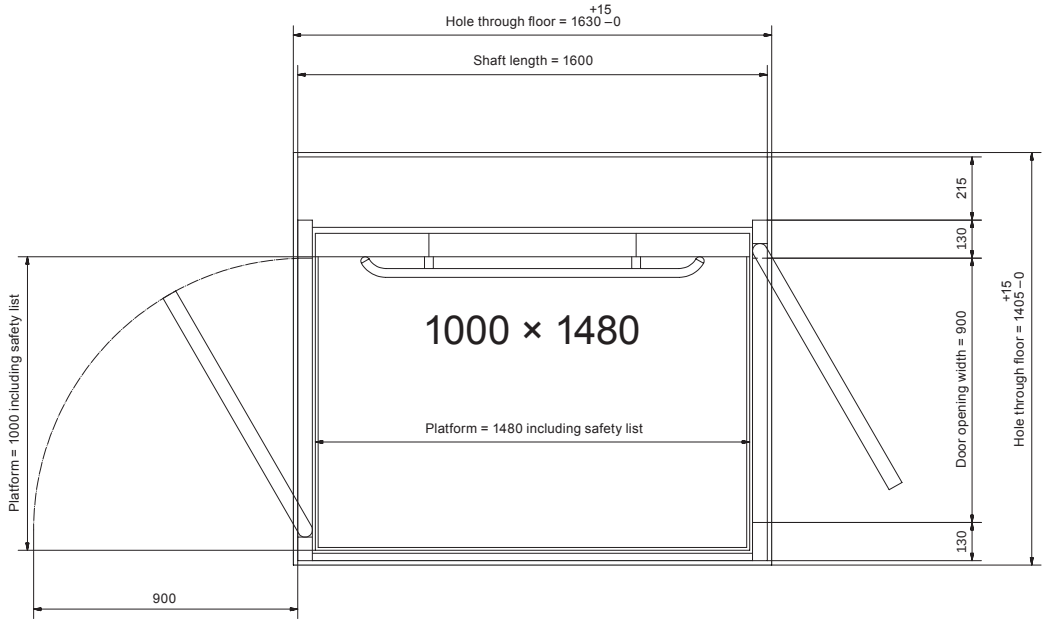
Platform 1000 × 1280

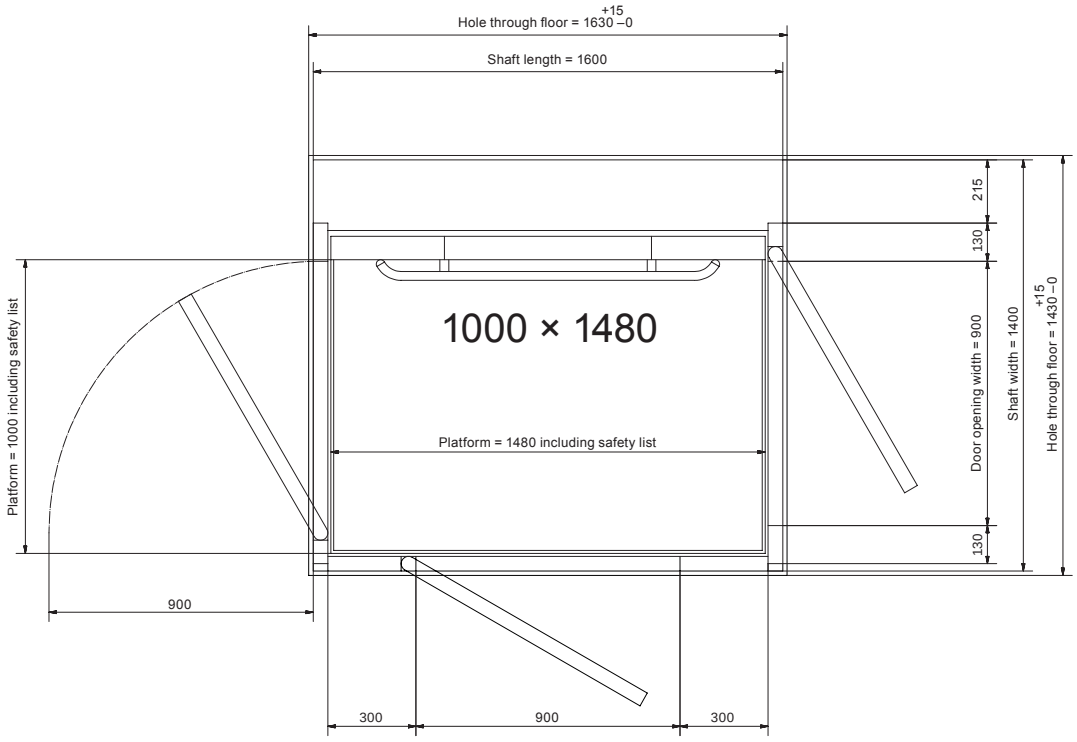




Drawings - Vector

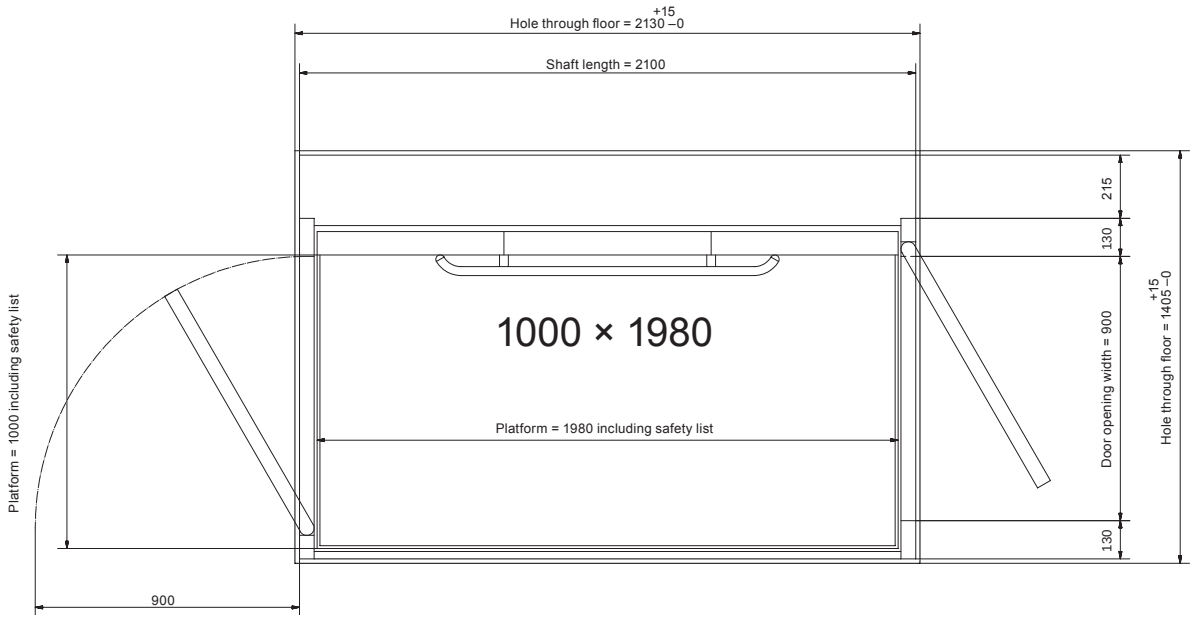
Platform 1000 × 1480

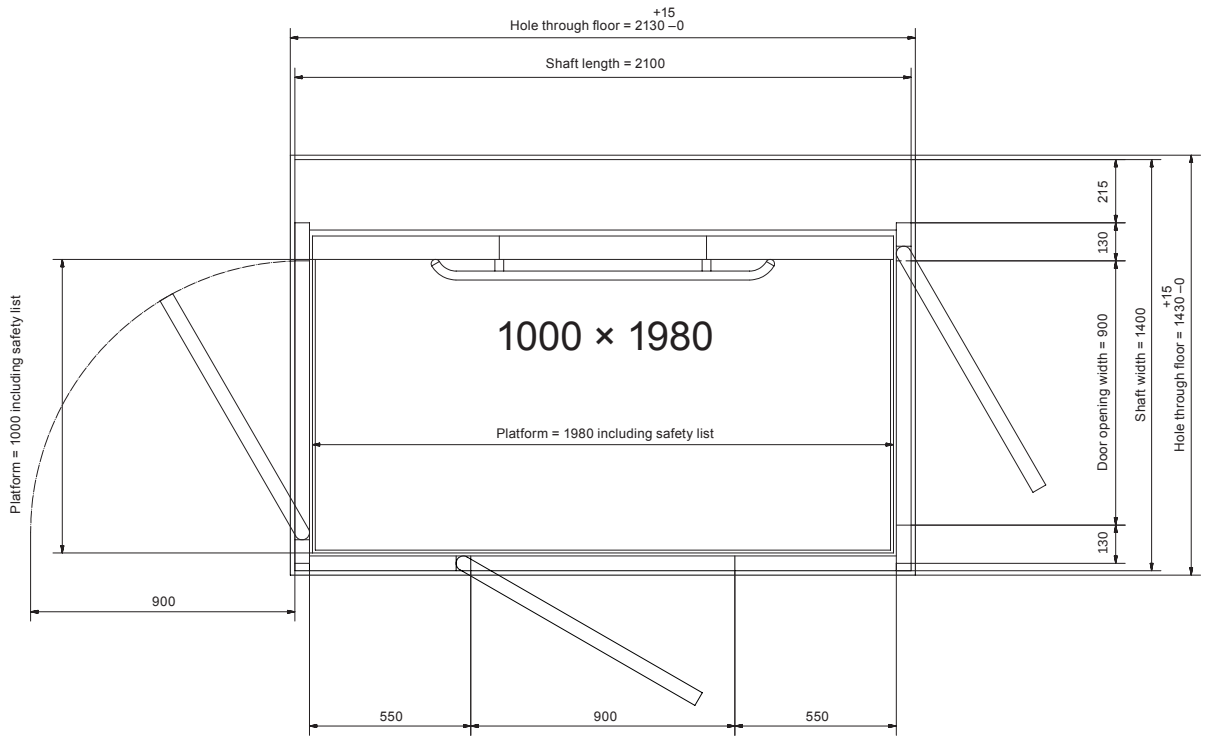




Drawings - Vector

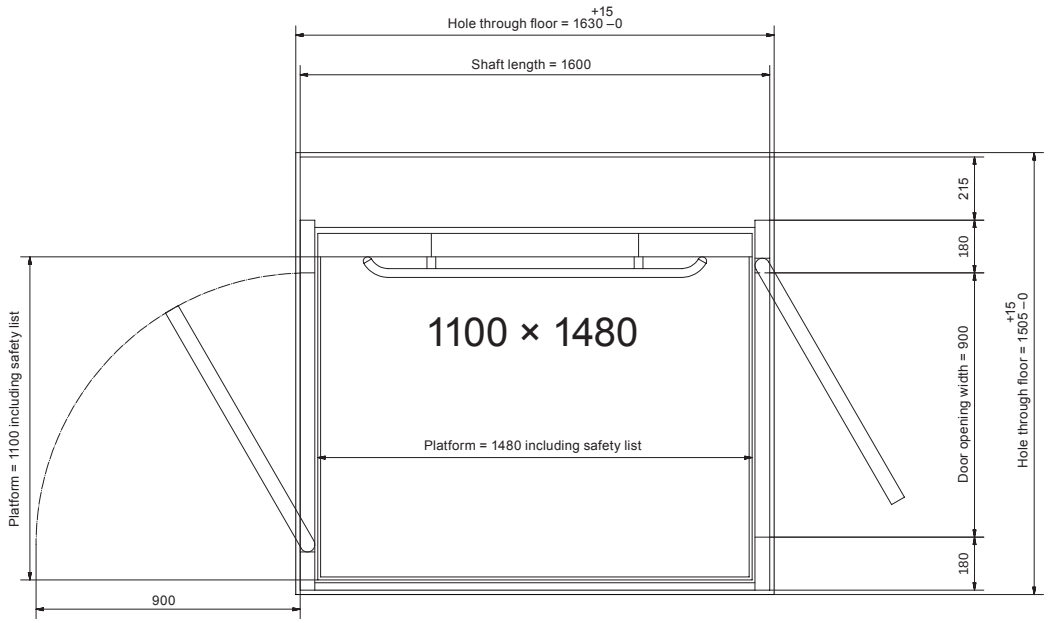
Platform 1000 × 1980

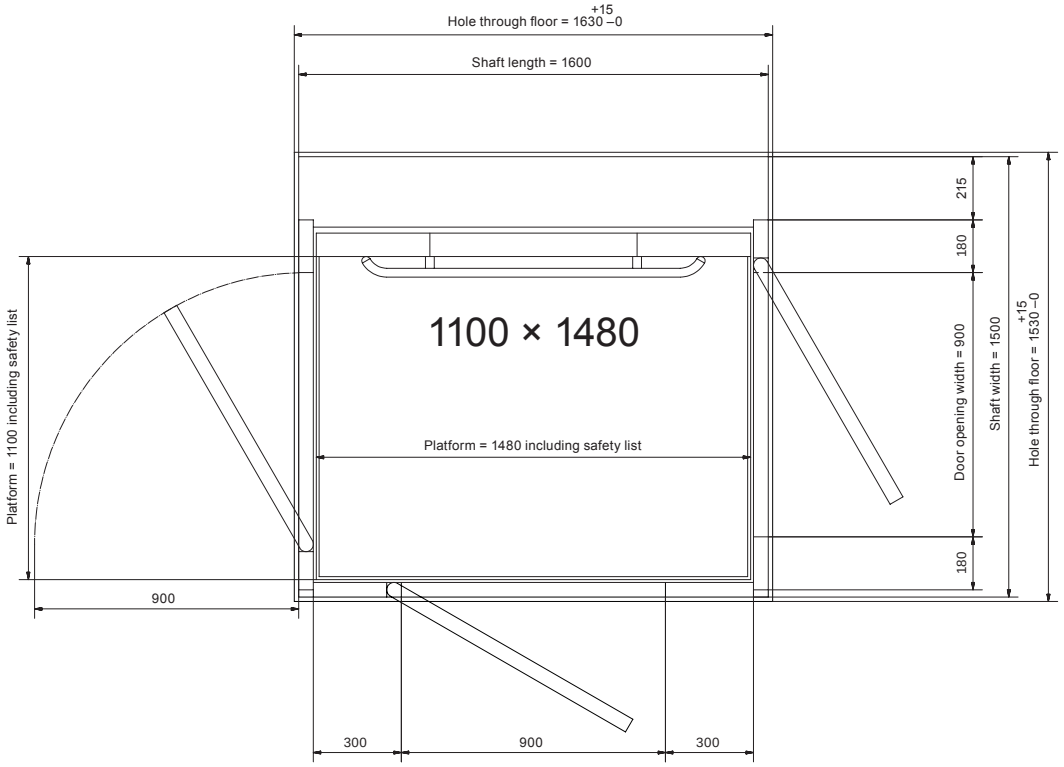




Drawings - Vector

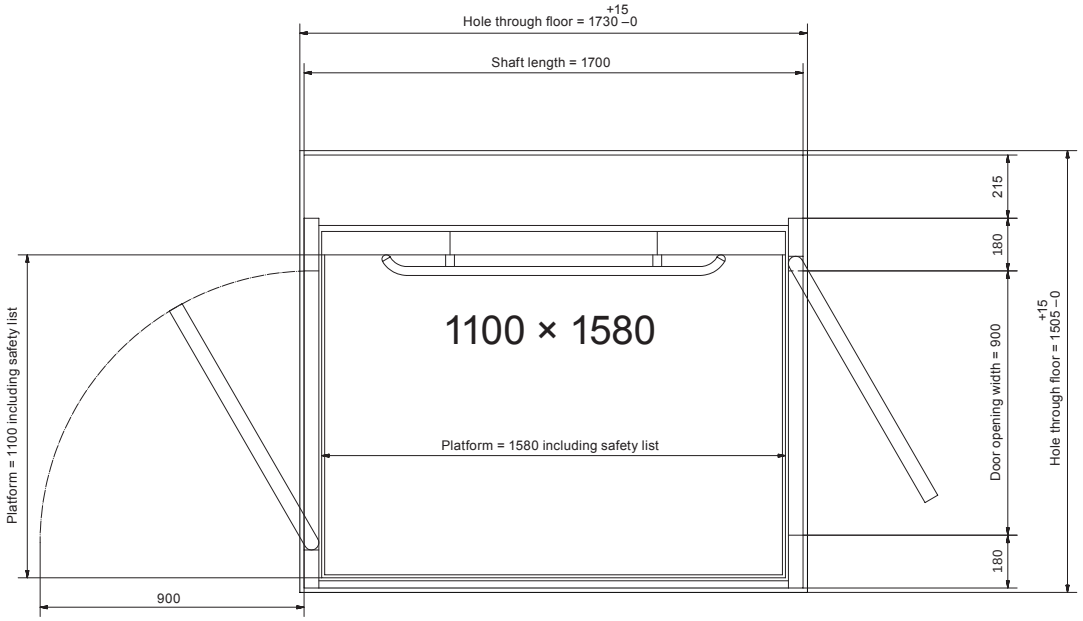
Platform 1100 × 1480

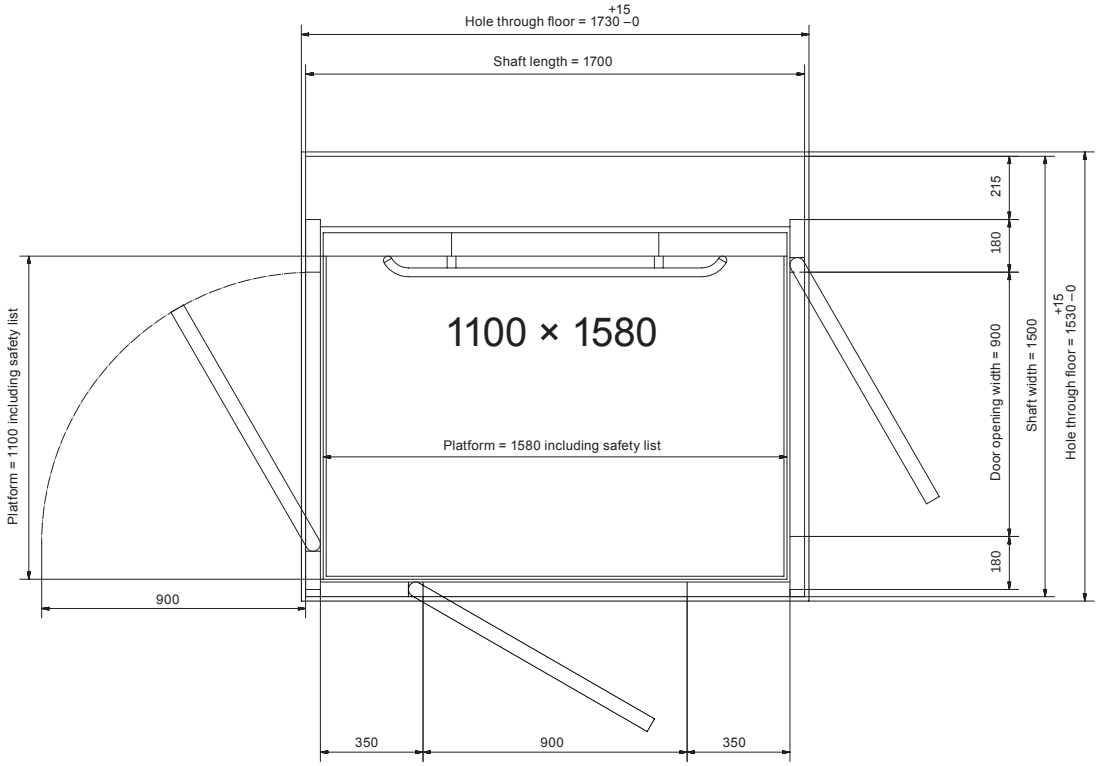




Drawings - Vector

Platform 1100 × 1580





FAQ

1. Can I have the lift painted in any colour?

Vector can be painted in any RAL colour or Metallic colour silver.
Following choices are available:
Whole lift painted in standard colour RAL 9003 (White):
• Whole lift painted in RAL 9003 (For Vector the platform panels are painted in RAL 5014 (blue)).
Whole lift painted in other colour:
• Whole lift painted in optional colour (Incl. shaft, doors and platform panels for Vector.)
Lift partially painted in different colours:
• Shaft in one colour (Incl. shaft panels, corner profiles, Architraves, etc.)
• All door blades in one colour.
• All door frames in one colour (Also includes the door faceplate.)
• Platform panels in one colour - valid for Vector only.
• One of the above choices or a combination of them.

Note that all doors must be painted in the same way. It is not possible to have them painted differently.

Definition of White is RAL 9003 structure with gloss 20 (i.e. it is a matte colour). When ordering another RAL colour on the lift it will be without structure and with gloss 85 (i.e. glossy colour). The same is valid for platform panels on half and full height wall, where you have RAL 5014 with gloss 85 (glossy colour) as standard. The lift is powder coated.

Any RAL colour means in this case any RAL color from the 213 colur RAL chart K7 classic.
Note that only Metallic colour silver, 100+/-5% is available for sales.

2. To which standards do the lifts comply?:

Vector comply with the Machine Directive 2006/42/EC, Vector by following the harmonized standard EN81-41. The lifts are also compliant with the Electromagnetic compatibility (EMC) – 2004 and Low voltage Directive 2006/95/EC. The lifts are type approved, CE marked. EI60 – Fire & smoke proof door complies with the lift directive 95/16/EC and EN 81-58. A certificate for respective lift is available on partner desktop.

3. What kind of wheelchair can be fitted in the lift?

Vector follows the requirements stated for lifts regarding the possibility to fit a wheelchair with or without attendent. Depending on the size of the platform / cabin you can fit either a wheelchair or a wheelchair with an attendent:

Type A and B wheelchairs are defined in :
EN 12183 Manual wheelchairs – requirements and test methods
EN 12184 Electrically powered wheelchairs, scooters and their charges – Requirements and test methods

Dimensions of wheelchair	Class A	Class B
Total length	1200	1400
Total width	700	700

EN81-41 and EN81-70 defines the sizes of the platform / cabin and what type of wheelchair it is intended for.

Vector:

Platform size	
900x1040	-
900x1280	Lone user, or type A wheelchair
900x1480	Type A and B wheelchair with attendent
1000x1280	Lone user, or type A wheelchair
1000x1480	Type A and B wheelchair with attendent
1000x1980	Type A and B wheelchair with attendent
1100x1480	Type A and B wheelchair with attendent and adjacent entries
1100x1580	Type A and B wheelchair with attendent and adjacent entries

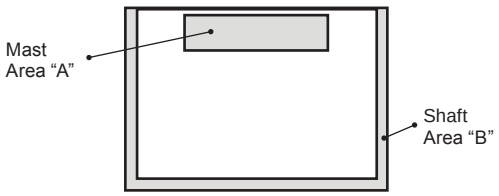
4. What are the reaction forces on the building and force on fixings to support frame to wall?

Details regarding the forces are available in the installation manual for Vector .

Vector

Reaction forces from the lift to the building:

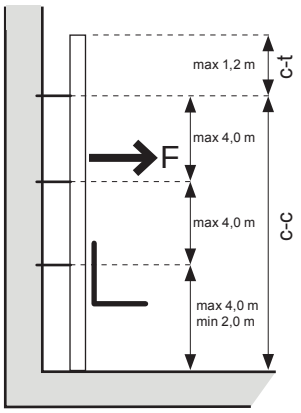
- Maximum force as a function of the lift´s travel. The force is distributed to the floor through the mast bottom with the area “A” and to the shaft bottom with the area “B”.



Travel height (m)	Area “A” F(kN)	Area “B” Shaft panels F(kN)	Area “B” Glass Shaft F(kN)
1	7,8	2,55	3,30
2	8,5	3,40	4,40
3	9,2	4,25	5,50
4	9,9	5,10	6,60
5	10,7	5,95	7,70
6	11,5	6,80	8,80
7	12,0	7,65	9,90
8	12,8	8,50	11,00
9	13,4	9,35	12,10
10	14,2	10,20	13,20
11	14,9	11,05	14,30
12	15,6	11,90	15,40

Force on fixing to to support frame (mast) to wall:

- c -c = distance (height) from the floor to the highest fixing into the wall.
- The maximum distance between two fixings or lower floor and the lowest fixing is 4,0m.
- The miniumum distance between lower floor and the highest fixing is 2,0 m.
- c -t = distance from the top of the mast to the highest fixing into the wall.
- The maximum distance between the top of the mast and highest fixing is 1,2 m



c -c (m)	F(kN) 410 kg load	F(kN) 500 kg load
2	1.5	2.2
3	1.0	1.5
4	0.8	1.1
5	0.6	0.9
6	0.5	0.7
7	0.4	0.6
8	0.5	0.5
9	0.3	0.5
10	0.3	0.4

Features and benefits

You can always get out of the lift by yourself
- If there is a power failure, you can always get out of the lift by yourself with battery operated emergency lowering. Use the platform buttons and the lift will take you to the closest lower floor and you can open the door and get out by yourself.

The lift can´t fall down
- With the self locking concept, i.e the friction between screw and nut will prevent the lift from falling down. No additional brake system is needed.

Minimum builders work and small footprint
- The lift can be installed without a pit, with a ramp (or with a 50 mm pit without ramp).
- All parts are included in the shaft - no extra machine room or head room needed.

Easy installation
- Means that the lift is both easy and fast to install. A normal installation only takes two days.

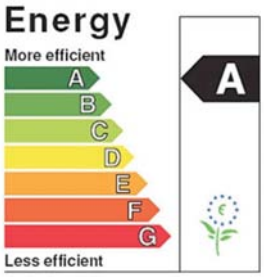
Low operation and maintenance cost.
- Lowest on the market.

No hydraulics, which mean no leakage or smell
- No additional space needed for hydraulic unit.

Robust shaft
- 25 mm shaft panels. Robust and resistant to damage.
- Good noise and acoustical isolation.

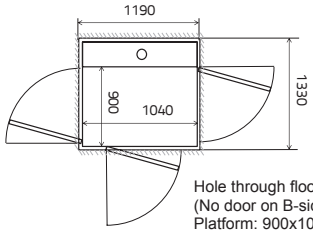
Environmental Product Declaration
- We are the first lift manufacturer with an Environmental Product Declaration
- More than 95% of the parts are recyclable.

Low energy consumption
- Minimum stand-by power consumption 15 W – not more than a computer or a TV.
- Energy class A as per VDI 4707.



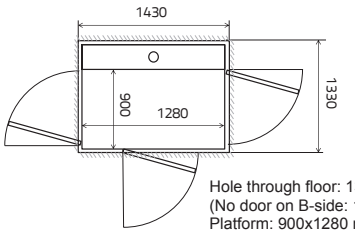
Overview Vector

900 x 1040



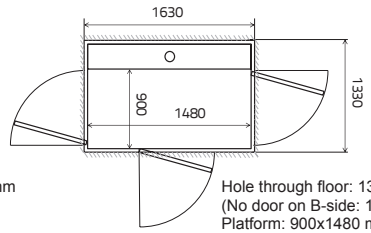
Hole through floor: 1330x1190 mm
(No door on B-side: 1305x1190)
Platform: 900x1040 mm
Load: 250 kg
Wheelchair: -

900 x 1280



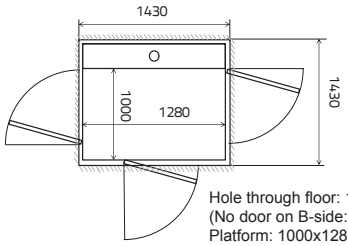
Hole through floor: 1330x1430 mm
(No door on B-side: 1305x1430)
Platform: 900x1280 mm
Load: 410 kg
Wheelchair: Lone user or type A

900 x 1480



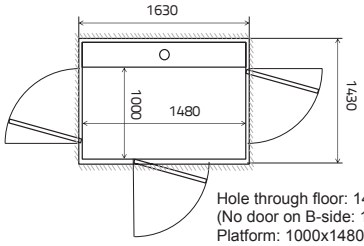
Hole through floor: 1330x1630 mm
(No door on B-side: 1305x1630)
Platform: 900x1480 mm
Load: 410, 500 kg
Wheelchair: A or B with attendent

1000 x 1280



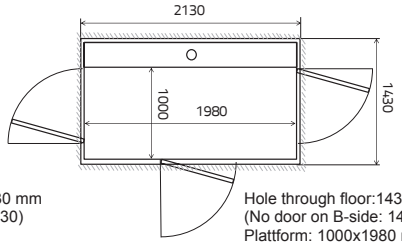
Hole through floor: 1430x1430 mm
(No door on B-side: 1405x1430)
Platform: 1000x1280 mm
Load: 410 kg
Wheelchair: Lone user or type A

1000 x 1480



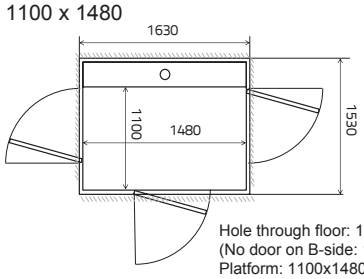
Hole through floor: 1430x1630 mm
(No door on B-side: 1405x1630)
Platform: 1000x1480 mm
Load: 410, 500 kg
Wheelchair: A or B with attendent

1000 x 1980



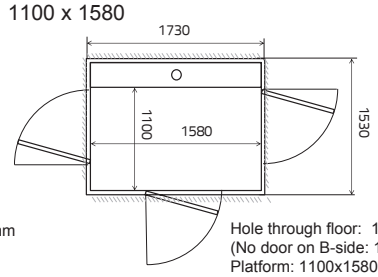
Hole through floor:1430x2130 mm
(No door on B-side: 1405x2130)
Plattform: 1000x1980 mm
Load: 500 kg
Wheelchair: A or B with attendent

1100 x 1480



Hole through floor: 1530x1630 mm
(No door on B-side: 1505x1630)
Platform: 1100x1480 mm
Load: 410, 500 kg
Wheelchair: A or B with attendent,
adjacent entry.

1100 x 1580



Hole through floor: 1530x1730 mm
(No door on B-side: 1505x1730)
Platform: 1100x1580 mm
Load: 500 kg
Wheelchair: A or B with attendent,
adjacent entry.

access
Business Development Division