

WESSEX ENCLOSED 'HOMELIFT'

VE RANGE (UNITED KINGDOM)



Technical Sales Specification

VE00 5100

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RECORD OF REVISIONS

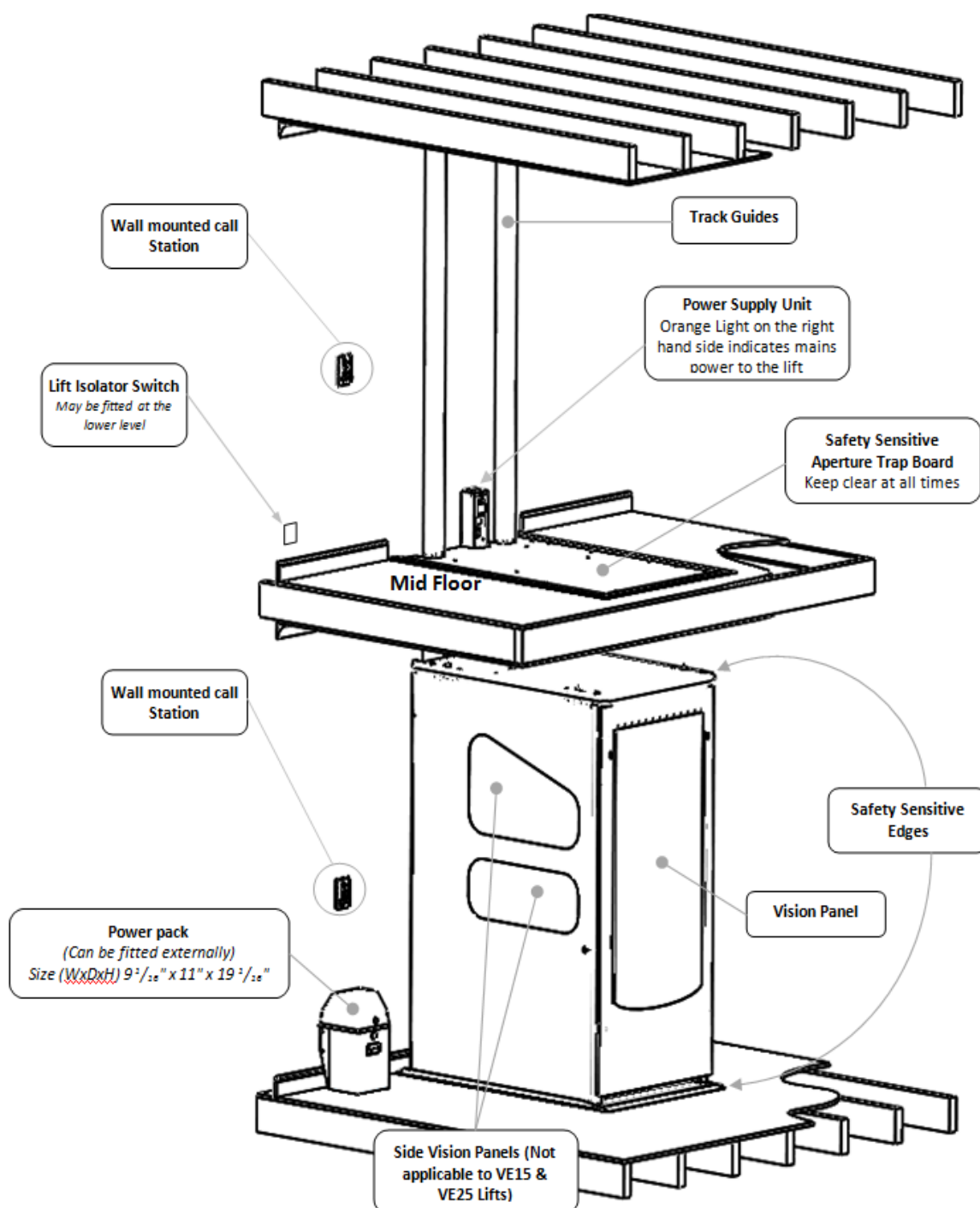
Revision	Revision Date	Description	ECO
1	18/07/2016	VE00 5100 Initial Release	
2	21/03/2017	Company logo updated	
3	15/02/2018	Various updates	

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1. Introduction.

The drawing below shows the typical Homelift installation. The Homelift is designed for use in a domestic dwelling. When travelling in the lift car, the person or persons can be either seated, in a wheelchair or standing. The lift must not be fitted into bathroom environments or damp/humid conditions. Your Homelift must not open directly into a garage at either level. Please contact your VE Enclosed "Homelift" Distributor for further information.



2. Product Range and Specifications.

The table below details the standard specification for the Wessex Enclosed “Homelift” range.

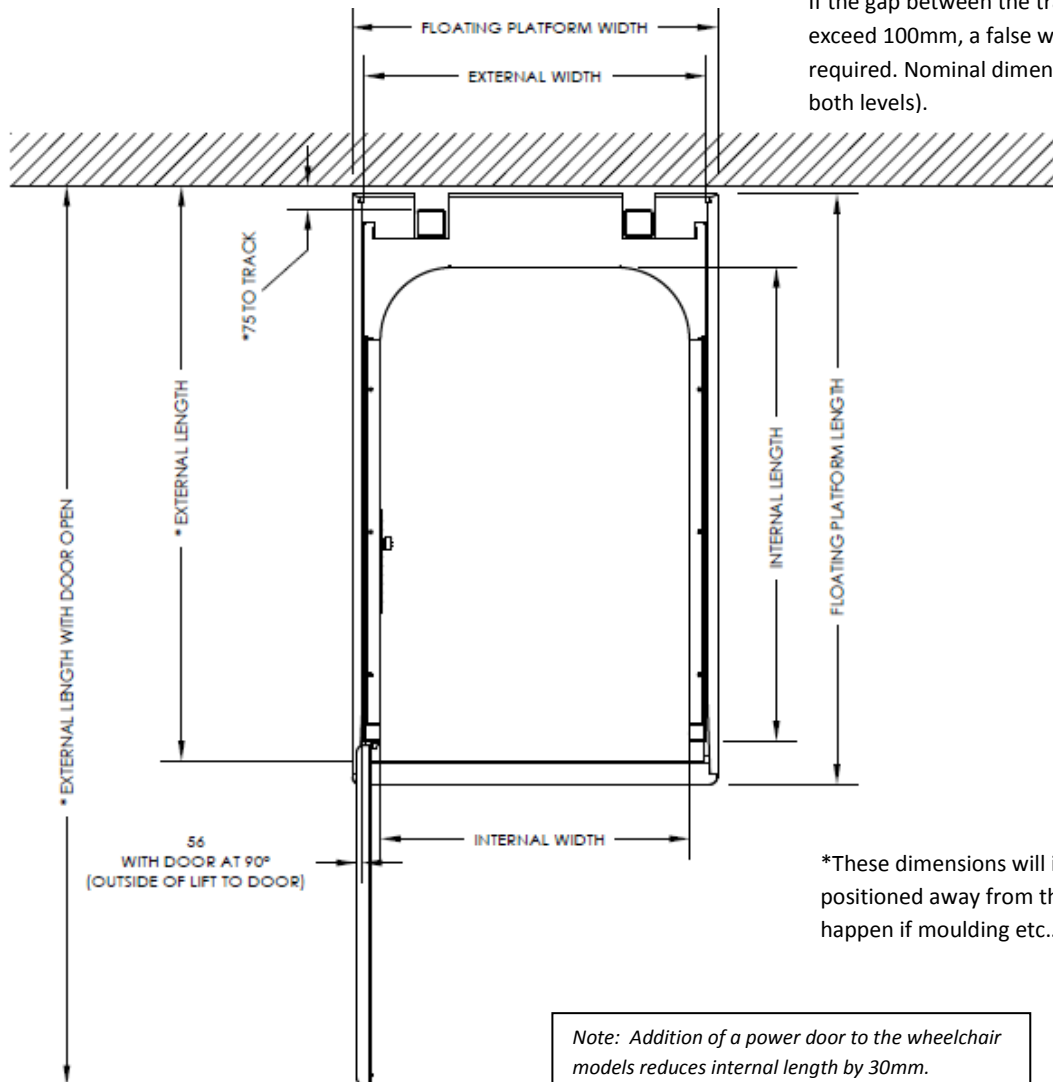
STANDARD SPECIFICATION	VE15	VE31	VE36	VE38	VE25	VE51	VE56	VE58
Small enclosed Homelift	✓	-	-	-	✓	-	-	-
Standard enclosed Homelift	-	✓	-	-	-	✓	-	-
Large enclosed Homelift	-	-	✓	-	-	-	✓	-
Extra Large enclosed Homelift	-	-	-	✓	-	-	-	✓
3000mm Maximum Travel	✓	✓	✓	✓	-	-	-	-
3500mm Maximum Travel	-	-	-	-	✓	✓	✓	✓
Minimum shaft width (mm)	1046	996	1046	1156	1046	996	1046	1156
Minimum shaft length (mm)	936	1505	1555	1725	936	1505	1555	1725
Minimum first-floor ceiling height	2180mm				2315mm			
Mid-floor dimensions	from 165mm to 385mm				from 165mm to 385mm			
Safe Working Load	250 kg (39 stone)				250 kg (39 stone)			
Trap board Safe Working Load	250 kg (39 stone)				250 kg (39 stone)			
Lift Speed	60mm/ sec				60mm/ sec			
Door Adjustment	Up to 95°				Up to 95°			

2.1 Reference Documentation.

The table below details the technical information available for the Wessex Enclosed ‘Homelift’ range. The following documents must be referred to before commencing any work.

Drawing No	Description
VE00 7001	VE Lift Dimensions
VM00 6012	Mid Floor Details 400mm Joist Centres
VM00 6013	Mid Floor Details 600mm Joist Centres
SK01 2175	Structural Loadings
VM30 9006	Electrical Instructions
VM30 9003	Cable Routing
SK01 2109 & VM30 9004	Building Instructions Aperture cut-out Details
VM30 9011	Aperture Trim Fixing
VE00 2010	Track Installation Drawings
VM30 9002	Pump Information
VM30 8109	Smoke Alarm Wiring Diagram

2.3 Lift Car Dimensions.



*These dimensions will increase if the lift is positioned away from the rear wall. This may happen if moulding etc... are not removed.

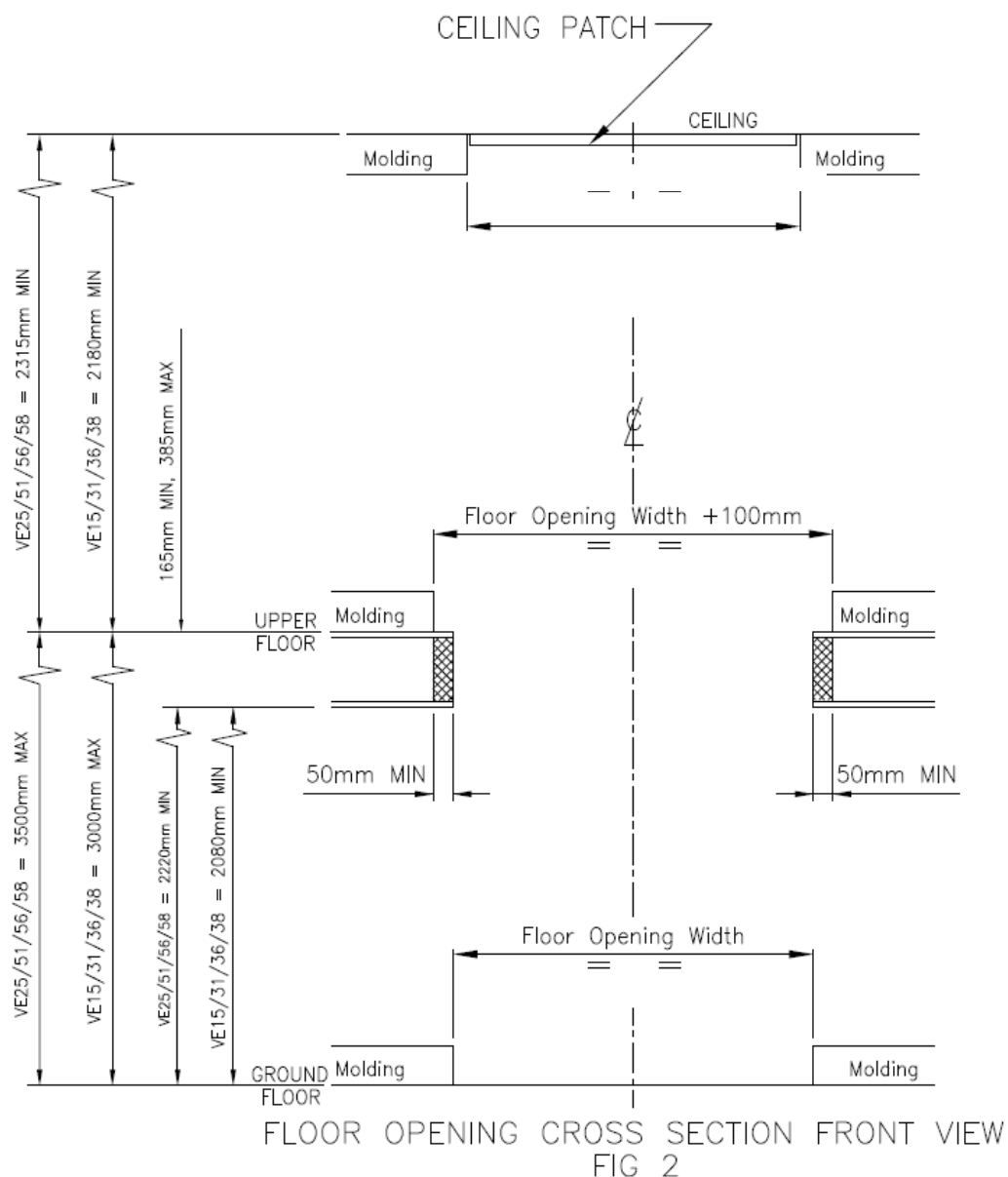
Note: Addition of a power door to the wheelchair models reduces internal length by 30mm.

Model	Length				Width		
	Lift External	*Lift Internal	Lift Door Open	Floating Platform	Lift External	Lift Internal	Floating Platform
VE15/VE25	840mm	575mm	1665mm	905mm	860mm	775mm	920mm
VE31/VE51	1410mm	1145mm	2190mm	1475mm	810mm	725mm	870mm
VE36/VE56	1460mm	1195mm	2290mm	1525mm	860mm	775mm	920mm
VE38/VE58	1630mm	1365mm	2570mm	1695mm	970mm	885mm	1030mm

2.4 Minimum Ceiling Dimensions.

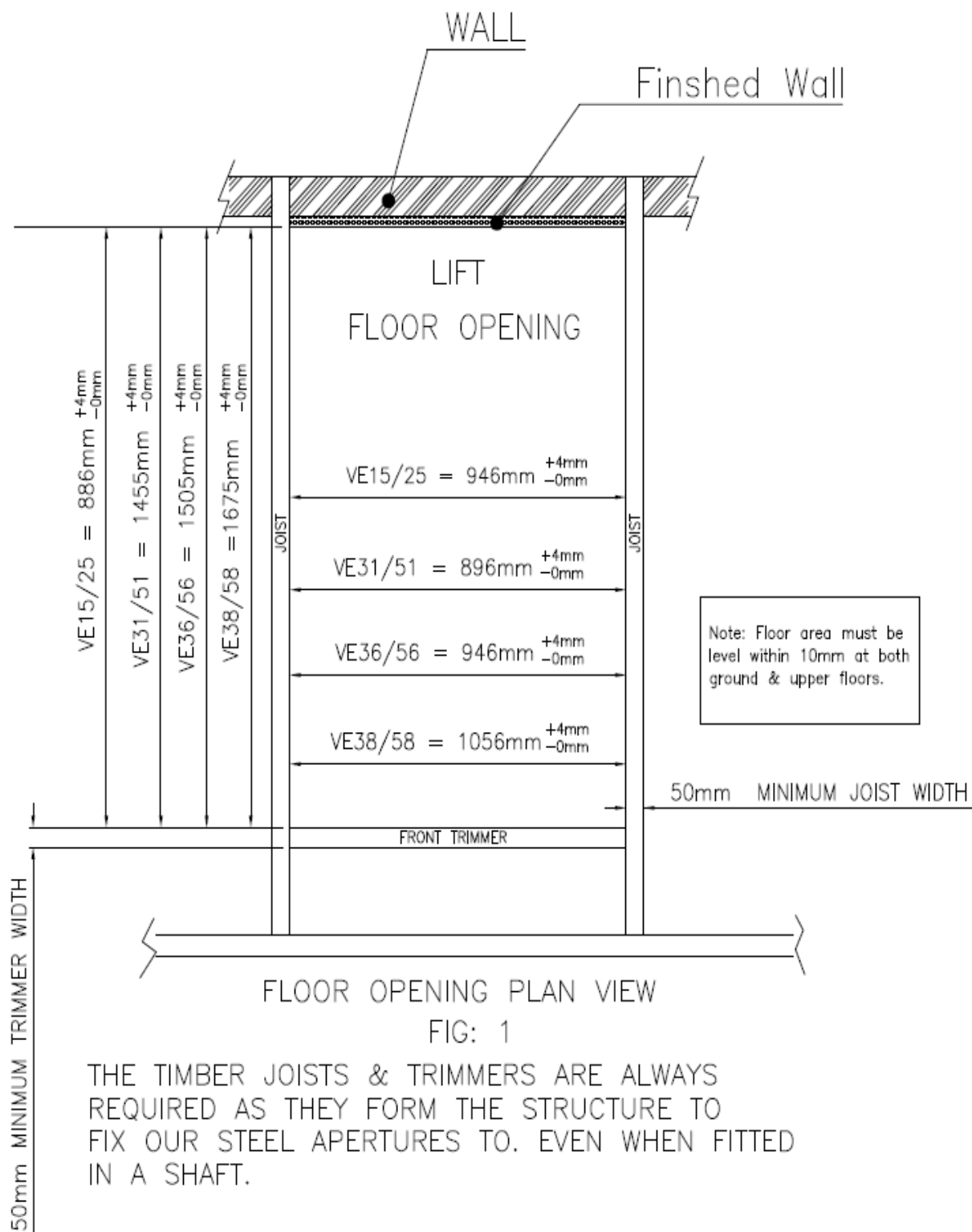
The diagram below details the following critical dimensions for each model type: -

- Minimum ground to floor ceiling height
- Minimum upper floor ceiling height
- Maximum and minimum mid-floor thickness
- Maximum travel



	VE15/31/36/38	VE25/51/56/58
Minimum ground floor ceiling height	2080mm	2220mm
Minimum first floor ceiling height	2180mm	2315mm
Maximum travel	3m	3.5m
Mid floor Range	From 165mm to 385mm	From 165mm to 385mm

2.5 Aperture Dimensions.



3. Door Construction and operation.

The VE range of models have a manually operated door. The lock is held open for approximately 5 seconds, when the door button is pressed. This allows single handed operation of the door to release and open. The door opens up to a maximum of 95°.

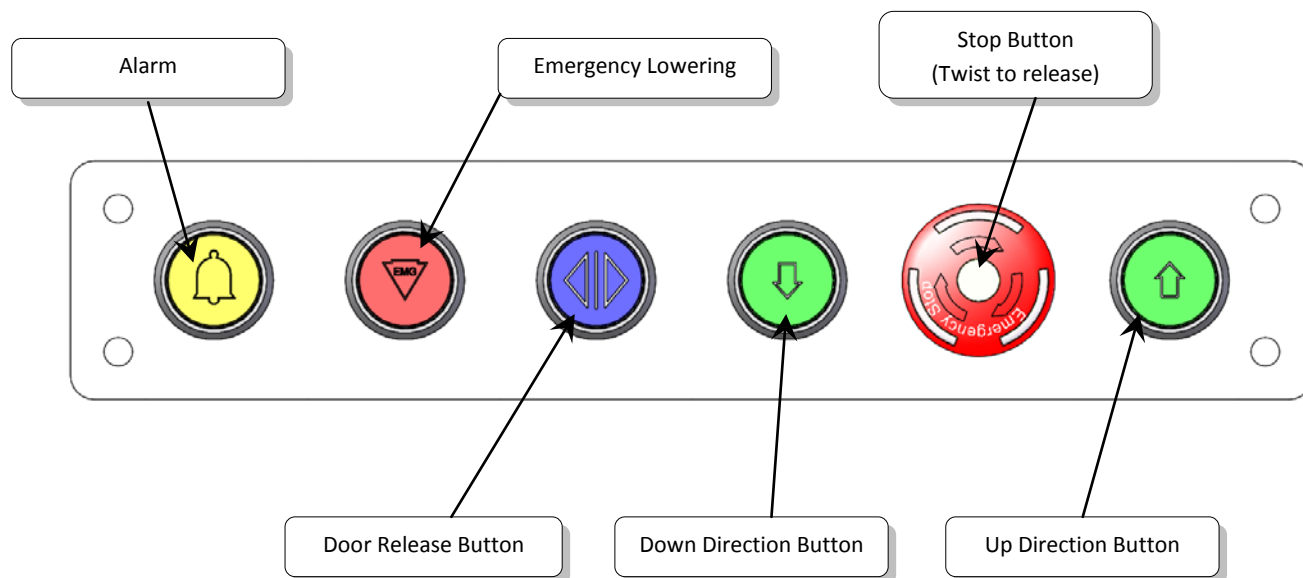
All models have the option of a powered door with one touch operation. An auto-door close option is also available on these models. The door can be hinged on either side. The powered door can be manually overridden and has a safety breakout mechanism to protect the user from injury.

4. Controls.

The lift can be operated by using either, the In-car controls, upper level call station or lower level call station.

4.1 Car Controls.

The car controls are located internally on the side panel and can be fitted either side of the lift car. The controls illuminate to indicate what functions are available. They will extinguish after a set period of time to conserve energy. The push buttons and in-car lighting will illuminate when the door release button is pressed.

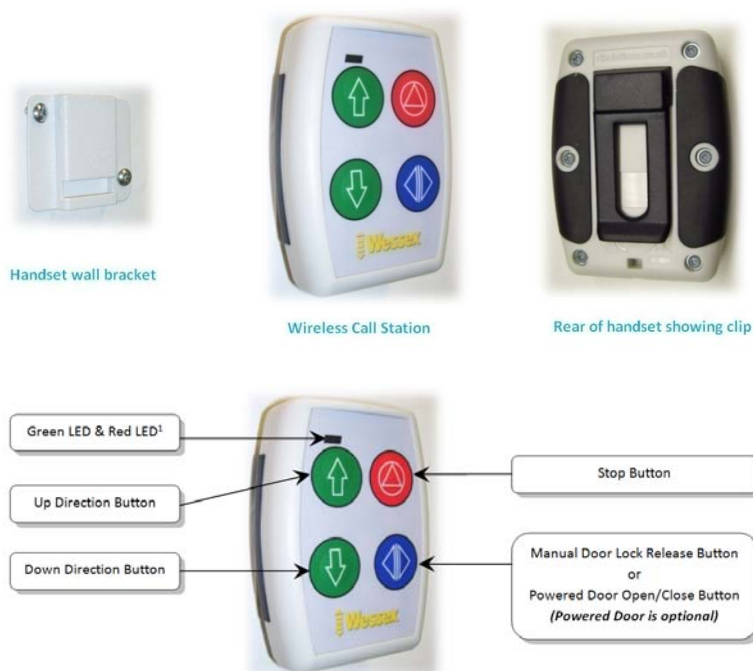


4.2 Call Station Control

4.2.1 Wireless call stations (standard)

There is one type of wireless call station handset. This meets the needs of all VE Homelift models and door types. The handset clips to a bracket attached to the wall. The handset uses three AAA batteries. Two handsets are supplied as standard. Further handsets can be added.

If desired, the handset can be unclipped from its bracket and used as a portable handset to call or send the lift. However it is recommended that the wireless handset remains clipped on the wall bracket so that the control of the lift is maintained at both levels. Key switches on wireless call stations are not available. If call station key switches are required, we recommend the hard-wired option is installed.



Note 1: The Green LED illuminates only when a button is pressed.
When the batteries are low, the Red LED will flash for 5 seconds after a button is pressed.

4.2.2 Hard-wired call stations (optional)

Hard-wired call stations are surface mounted but can be made flush finished by special request. The call station controls do not illuminate. The lower call station wire is run through the mid-floor and vertically down the wall. The upper call station is run through the mid-floor and vertically up the wall.

Key-switches are optional but recommended for dwellings that require the lift controls to be isolated. This prevents unauthorised use by children.



5. Illumination.

Low voltage LEDs mounted on the roof of the lift car. These have the same elapsed timer feature as the in-car push button illumination. The lights are triggered via any door control or in the event of a power failure.

6. Grab Handles (Optional).

Front side mounted handles

7. Track System.

Fixings at ground floor, mid floor via structural beam and ceiling fix at first floor level. An optional wall bracket is available at the first floor level, if ceiling fixing is not achievable.

8. Seat (Optional).

The seat can be set as a perch or bench type seat in a range of heights. Max Loading 150kg.

A lap strap is also available.

Four point safety harness available by special request.

9. Finish.

For internal domestic use only.

Exterior metalwork powder coated textured finish. Pearl Grey (BS4800 22B-15).

Internal metalwork powder coated textured finish. Silver (GRIS 150 sable).

10. Alarm Facilities.

In-car two tone alarm is fitted as standard, which is operated by a push button within the lift car.

A volt free contact is available as standard which allows the push button control to operate a remote mounted alarm.

11. Telephone.

A telephone is supplied which must be fitted in a suitable location within the lift car. A telephone point is required next to the PSU to allow connection to a landline.

12. Electrical Requirements.

Supply 230Vac 50Hz single phase earthed supply.

Power consumption:

- VE full load running current = 4.5 amps

The supply must be dedicated solely to the lift and shall originate at the household consumer unit. Must be RCD protected.

13. Applicable Standards.

BS 5900:2012

Machinery Directive 2006/42/EC

14. Battery Backed Features.

The following functions within the lift will still function in the event of a power failure:

- In-car emergency lowering will become active
- Floating platform safety switches
- Trapboard safety switches
- Illumination of car and push buttons
- Manual door release
- Powered door (if fitted)

15. Safety Features.

- Sensitive surfaces on the top of the lift car.
- Sensitive surface to car underside.
- Door electrically interlocked. Will only open when at the correct level.
- Power door breakout mechanism. Door will stop if obstructed.
- Manual door release key. The door can be manually opened in the event of a door release failure. This must only be used when the lift is either at the upper or lower level.
- Sensitive surface to trapboard sensing up and down obstructions.
- Separation and zone switches on trapboard.
- Fire seal when lift is at upper or lower level.
- Pipe burst valve integral to base of hydraulic ram.
- Anti-creep and re-levelling facility at first floor.
- Low voltage 24V dc control system (PELV).
- Final limit switch.
- Overrun timer.
- In-car Lighting – Internal illumination of the lift car is provided which automatically switches off when the lift is not in use. The lighting is operational via battery back up in the event of a power failure. This is fitted as standard
- In-car battery backed emergency lowering. The lift can be lowered to the ground floor by pressing the in-car emergency lowering button in the event of a power failure.
- Manual emergency lowering at the power pack. The lift can be lowered in the event of a power failure from the power pack. *Note: This procedure will only work if the lift is at least 50mm below the upper level.*
- *Smoke Alarms – Mains powered (battery packed) smoke alarms are supplied and fitted. These are connected to the lift. If smoke is detected the alarms will emit an audible warning and render the lift inoperative, to prevent its use.*

If smoke is detected whilst you are travelling in the lift, it will continue its journey in the direction of travel and stop at the intended level. You can change direction mid-travel if you wish by pressing the stop button, followed by the desired green button. Once the lift reaches the intended level you will be able to open the door and exit the lift as normal. The lift will then become inoperative to prevent its use.

16. Options.

- Grab Handles – These side mounted handles allow the user points on which to ease themselves into the lift car.
- In-car Seating – An in-car seat option is available. Maximum rated load of the seat is 150kg. The seat can fold up neatly away by simply lifting the front edge of the seat up until it is in the vertical position.
- Lap Strap – Where in-car seating is selected a lap strap with quick release buckle can be offered to suit.
- Hard-wired call stations are optional.
- Auto-door Closing – An auto-door closing option is available. This will automatically close the lift door after a set period of time.
- In-car Key-switch – An in-car key-switch option is available. This will disable the up, down and stop button on the in-car control panel. This option must only be used if the user of the lift is not physically or mentally able to use the in-car controls. The lift must be supervised at all times when in use.

17. Method of installation.

There are 2 steps to installing any product from the VE range:

- The building work (forming aperture and fitting the aperture liner & trap-board) (Approx 1 day).
- Track system and lift installation. (Approx 1 day).

18. Installation.

The installation engineers will cut and fit the tracks and lift car and then commission the lift.

The benefits to this approach are:

- Standard track lengths allows batch production of both top and bottom track components.
- The complete package can be project managed and controlled by Wessex Lift Co Ltd.

The basic installation sequence after the builders work has been completed is as follows: -

Basic Install Sequence

1. Fit Tracks
2. Fit Ram and ram housing along with power pack
3. Attach lift car on tracks in the following order; -
 - Carriage
 - Sides
 - Floor
 - Adjust and set tensioning devices
 - Floating Platform
 - Electrical Connections
 - Trap board and front pick up mechanisms
 - Panel out car
 - Fit seat if applicable
 - Fit handles if applicable
 - Fit phone