



## **VPL-3100 Residential Vertical Platform Lift** **Technical Specifications**

rev: 11/16/2006  
ISO No. 404.96

**MODEL NUMBER:** VPL-3100 Series, Model VPL-3153 & VPL-3175  
**U.S. F.D.A. CLASSIFICATION:** Class II  
**CLASSIFICATION NUMBER:** 890.3930  
**PRODUCT CODE:** ING  
**CSA/C-US Listed:** File Number 208135

**PERFORMANCE STANDARDS:** USA Food & Drug Administration: None  
ANSI/ASME: A18.1-2003 Safety Standards for Platform Lifts and Stairway Chairlifts  
CSA B613-00 (JAN 2002) Private Residence lifts for Persons with physical Disabilities  
ANSI/ASME: CSA B44.1-04/ASME-A17.5-2004 Elevator and Escalator Electrical Equipment

**RATED LOAD:** 750 lbs maximum

**NUMBER OF PASSENGERS:** 1 passenger with mobility device

**DRIVE:** 1 hp motor; 1750 rpm, single phase, 120 VAC, 60 Hz, 13.4 Full Load Amps, 1.15 service factor, continuous duty

**INTERMEDIATE REDUCTION:** Dual 4L style Poly-V belts and pulleys, 3.94:1 pulley reduction

**FINAL DRIVE:** 1" DIA. ACME screw w/bronze nut and bronze safety back up nut

**MOTOR CONTROLLER:** 24VAC Relay control with 15 amp circuit breaker

**BRAKING:** Precision landing control with solenoid actuated screw braking

**STANDARD CONTROL:** Separate up and down push button switches, continuous operation, key switch control

**EMERGENCY STOP SWITCH:** Red, sealed, 1.55" diameter mushroom head, push to stop, pull to reset

**SPEED:** 9 feet per minute maximum

**LIFTING HEIGHT:** Model VPL-3153 has a 53" maximum floor to floor height and the model VPL-3175 has a 75" maximum floor to floor height

**MAIN FRAME CONSTRUCTION:** Welded steel tubular guide construction w/formed sheet steel guarding

**CARRIAGE CONSTRUCTION:** Welded carriage with 2.0" dia. front and back sealed dual ball bearing wheels and adjustable low friction plastic side stabilizer guide pads

**PLATFORM CONSTRUCTION:** Totally enclosed side walls consisting of 1” tubular framing and sheet metal siding

**UNDER CARRIAGE SAFETY:** Totally enclosed bottom formed steel safety pan

**AUTOMATIC LOWER RAMP:** 16” long self lowering ramp

**MANUAL LOWER DEVICE:** Optional. Manual hand crank to lower device available. Access to adaptive shaft via safety interlocked machine top cap

**FINISH:** Exterior grade powder coat paint

**LIMIT SWITCHES:** Adjustable upper and lower limit switches and upper final limit switch

**REMOTE CONTROL:** Optional. Station includes a separate landing call and send pushbutton and a keyed on/off switch

**TOP LANDING GATE:** Optional. Includes Bruno mechanical interlock which releases door, only when platform is at upper landing. Electronic sensors stop platform from operating unless door is closed. Also includes call/send pushbuttons and keyed on/off switch mounted into gate frame

**WEIGHT OF UNIT:** Model VPL-3153 is 752 lbs.  
Model VPL 3175 is 825 lbs.  
Top Landing Gate Option is 91 lbs.

**TESTING PERFORMED:**

- 1) Life cycle test performed at manufacturer’s location.
- 2) ASME A18.1/CSA B613-00 code tests performed at manufacturer’s location.

## VPL Job Site Requirements

The following is a list of general job site requirements provided as a guide to help the installer. For a complete list of requirements check the installation site's applicable local codes.

### **Electrical Requirements:**

VPL requires a dedicated GFI 120 Volt, 15 amp, 60 Hz single phase circuit to operate. Check applicable local codes for all electrical and wiring requirements.

### **Platform Pathway Requirements:**

Make sure the pathway that the platform runs in is clear of any electrical conduit and wire ways, Make sure no liquids, steam or gas piping discharge into the pathway, and make sure that there is sufficient headroom clearance (minimum of 80") throughout floor to floor travel. Make sure the area is sufficiently lit.

### **Floor Requirements:**

4" thick, 3500 PSI minimum compressive strength, reinforced concrete slab. Refer to VPL-3100 technical drawing for minimum slab dimensions.

### **Floor Attachment:**

VPL must be fastened to concrete slab using four (4) 1/2" (3/8" bolt) x minimum 2 1/2" long concrete anchors suitable for the environment. Refer to VPL-3100 technical drawing for mounting hole locations. Follow selected concrete anchor manufacturers guidelines and applicable codes.

### **Housing Attachment:**

None required. Can use 5/16-18 tapped holes on tower frame work to fasten the tower housing to a vertical wall for additional stability. Note: housing must remain intact.

### **Top Gate Attachment:**

Refer to VPL gate technical drawing

### **Space Requirements:**

Refer to VPL-3100 technical drawing.

### **Platform to Top Landing Sill Clearance:**

ASME code indicates the platform floor-to-sill clearance at the upper landing shall not exceed 3/4 in. (19 mm). Follow applicable local codes.

### **Fascia Wall Requirements:**

ASME code indicates that fascia should be smooth and non-perforated that guards the full length and width of the platform. The fascia shall be securely fastened from the upper landing sill down to the lower landing sill. It should also be able to withstand a 125 pound side load over any 4 inch square area. Follow applicable local codes.