



## VPL-3200B Residential Vertical Platform Lift Technical Specifications

rev: 10/17/2011  
ILS-00986

**MODEL NUMBER:** VPL-3200B Series: *Models VPL-3210B, VPL-3212B and VPL-3214B (DC-powered units)*  
**U.S. F.D.A. CLASSIFICATION:** Class II  
**CLASSIFICATION NUMBER:** 890.3930  
**PRODUCT CODE:** ING  
**CSA/C-US Listed:** File Number 208135

### **PERFORMANCE STANDARDS:**

ANSI/ASME: A18.1-1999 (Sec. 5) Safety Standards for Platform Lifts and Stairway Chairlifts  
ANSI/ASME: A18.1-2003 (Sec. 5) Safety Standards for Platform Lifts and Stairway Chairlifts  
ANSI/ASME: A18.1-2005 (Sec. 5) Safety Standards for Platform Lifts and Stairway Chairlifts  
ANSI/ASME: A18.1-2008 (Sec. 5) Safety Standards for Platform Lifts and Stairway Chairlifts  
CSA B613 Private Residence Lifts for Persons with Physical Disabilities  
ANSI/ASME: CSA B44.1/ASME-A17.5 Elevator and Escalator Electrical Equipment

**RATED LOAD:** 750 lb (340 kg) maximum

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

### **DRIVE:**

- **DC battery-powered units:**
  - *primary drive: 1 hp motor, 1750 rpm, 24VDC permanent magnet, 20 full-load amps, continuous duty*
  - *5A, 24VDC output internal battery charger, 120VAC, 60 Hz, 3A maximum input power required*

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

**FINAL DRIVE:** 1 1/4" (32 mm) diameter Acme screw with bronze nut and bronze safety back up nut

### **MOTOR CONTROLLER:**

- **DC battery-powered units:** *24VDC relay control with 60A circuit breaker and disconnect*

### **BRAKING:**

- **DC battery-powered units:** *precision landing control*

**STANDARD CONTROL:** separate up and down pushbutton switches or paddle controls, continuous pressure, key switch control

**EMERGENCY STOP SWITCH:** (*standard*) red, sealed, 1.55" (39 mm) diameter mushroom head, push to stop, pull to reset; (*optional*) red, sealed, 1.55" (39 mm) diameter mushroom head, illuminated with audio alarm, push to stop, pull to reset

### **SPEED:**

- **DC battery-powered units:** *10 ft/min (0.05 m/s) maximum*

**LIFTING HEIGHT:** model VPL-3210B: 123" (3124 mm) maximum floor-to-floor height;  
model VPL-3212B: 147" (3734 mm) maximum floor-to-floor height;  
model VPL-3214B: 171" (4343 mm) maximum floor-to-floor height

For pit applications, maximum floor-to-floor is measured from the bottom of the pit.

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**MAIN FRAME CONSTRUCTION:** welded steel tubular guide construction with formed sheet steel guarding

**CARRIAGE CONSTRUCTION:** welded carriage with 2.25" (57 mm) diameter 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" (25 mm) tubular framing and sheet metal siding

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

**AUTOMATIC LOWER RAMP:** 16" (406 mm) long self lowering ramp (standard on unenclosed applications)

**EMERGENCY LOWERING:** external lockable keyed switch for lowering platform by means of a separate battery located inside the electrical enclosure

**FINISH:** exterior grade powder coat paint

**LIMIT SWITCHES:** adjustable upper and lower limit switches; upper final limit switch

**MANUAL LOWER DEVICE:** optional; manual hand crank to lower device available; access to adaptive shaft via safety interlocked top cap

**REMOTE CONTROL:** optional; station includes a separate landing call and send pushbutton switches or paddle controls 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 pushbutton switches or paddle controls and keyed on/off switch mounted into gate frame

**PLATFORM GATE:** optional; includes Bruno mechanical interlock which releases door, only when platform is at lower landing. Electronic sensors stop platform from operating unless door is closed

**FLUSH MOUNT DOOR:** optional; includes Von Duprin® electronic interlock which releases door only when platform is at door landing; electronic sensors stop platform from operating unless door is closed; offered as an oak door with steel frame (no fire rating) or a steel door with steel frame (90 min. fire rating including a viewing window); delay action hydraulic closer; keyed handle

**STATIONARY RAMP:** optional. 24" L x 36" W x 3" H (610 mm L x 914 mm W x 76 mm H) aluminum stationary ramp with anti-skid tan powder coat.

**WEIGHT OF UNIT:**

- **DC battery-powered units:**
  - **Model VPL-3210B: 1210 lb (549 kg) (with batteries)**
  - **Model VPL-3212B: 1304 lb (591 kg) (with batteries)**
  - **Model VPL-3214B: 1400 lb (635 kg) (with batteries)**
  
- **All Models:**
  - Platform Gate Option: 80 lb (36 kg)**
  - Top Landing Gate Option: 99 lb (45 kg)**
  - Top Landing Wide Gate Option: 108 lb (49 kg)**

**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

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# VPL Job Site Preparation

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

## Electrical Requirements:

- **DC battery-powered units:** require a dedicated GFCI 120V, 3A (max.), 60 Hz single-phase circuit to operate the internal battery charger. 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"– 2032 mm) throughout floor-to-floor travel. Make sure the area is sufficiently lit.

## Floor Recommendations:

4" (102 mm) thick, 3500 PSI minimum compressive strength, reinforced concrete slab. Refer to technical drawings 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 technical drawings for mounting hole locations. Follow selected concrete anchor manufacturer's guidelines and applicable codes.

## Housing Attachment:

Use 5/16-18 tapped holes on tower frame work to fasten the tower housing to a vertical wall. Mounting brackets are supplied with unit. Note: Housing must remain intact.

## Top Gate Attachment:

Refer to VPL gate technical drawing (see below).

## Flush Mount Door Attachment:

Refer to VPL flush mount door detail drawing (see below).

## Space Requirements:

Refer to VPL-3200B technical drawing (see below).

## Platform-to-Top Landing Sill Clearance:

ASME code indicates the platform floor-to-sill clearance at the upper landing shall not be less than 3/8" (9.5 mm) nor exceed 3/4" (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.

## Technical Drawings (available at [www.bruno.com](http://www.bruno.com)):

- ILS-00932 Straight-Through Platform (No Pit)
- ILS-00933 Straight-Through Platform With Platform Gate (Pit Application)
- ILS-00934 90°/Adjacent Exit Platform (No Pit)
- ILS-00935 90°/Adjacent Exit Platform With Platform Gate (Pit Application)
- ILS-00938 Top Landing Gate Detail
- ILS-00980 Hoistway Straight-Through Platform (No Pit)
- ILS-00981 Hoistway Straight-Through Platform (Pit Application)
- ILS-00982 Hoistway 90°/Adjacent Exit Platform (No Pit)
- ILS-00983 Hoistway 90°/Adjacent Exit Platform (Pit Application)
- ILS-00984 Hoistway Same Side Platform (No Pit)
- ILS-00985 Hoistway Same Side Platform (Pit Application)
- ILS-01027 Flush Mount Door Detail

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