



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

rev: 03/27/2009
ILS-00834

MODEL NUMBER: VPL-3100 Series: Models VPL-3153 and VPL-3175 (AC-powered units)
Models VPL-3153B and VPL-3175B (DC battery-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: USA Food & Drug Administration: None
ANSI/ASME: A18.1-2008 Section 5 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:

- **AC-powered units:** 1 hp motor, 1750 rpm, single phase, 120 VAC, 60 Hz, 13.4 full load amps, 1.15 service factor, continuous duty
- **DC battery-powered units:**
 - Primary drive: ½ hp motor, 1750 rpm, 24 VDC permanent magnet, 20 full load amps, continuous duty
 - 5A 24VDC output internal battery charger, 120 VAC 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" DIA. ACME screw w/bronze nut and bronze safety back up nut

MOTOR CONTROLLER:

- **AC-powered units:** 24 VAC relay control with 15A circuit breaker
- **DC battery-powered units:** 24 VDC relay control with 35A circuit breaker

BRAKING:

- **AC-powered units:** Precision landing control with solenoid actuated screw braking
- **DC battery-powered units:** Precision landing control

STANDARD CONTROL: Separate up and down pushbutton switches or paddle controls, requiring continuous operation to control unit, key switch control

EMERGENCY STOP SWITCH: (Standard) Red, sealed, 1.55" diameter mushroom head, push to stop, pull to reset. (Optional) Red, sealed, 1.55" diameter mushroom head, illuminated with audio alarm, push to stop, pull to reset

SPEED:

- **AC-powered units:** 9 feet per minute maximum
- **DC battery-powered units:** 10 feet per minute maximum

LIFTING HEIGHT: Model VPL-3153 has a 53" maximum floor to floor height, model VPL-3175 has a 75" maximum floor to floor height and a 28" minimum 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 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

WEIGHT OF UNIT:

- **AC-powered units:**
 - Model VPL-3153: 752 lb
 - Model VPL-3175: 825 lb
- **DC battery-powered units:**
 - Model VPL-3153B: 752 lb (without batteries) (with batteries +40 to 80 lb)
 - Model VPL-3175B: 825 lb (without batteries) (with batteries + 40 to 80 lb)
- **All Models:**
 - Top Landing Gate Option: 99 lb
 - Top Landing Wide Gate Option: 108 lb

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:

- **AC-powered units:** require a dedicated GFI 120 Volt, 15 amp, 60 Hz single phase circuit to operate. Check applicable local codes for all electrical and wiring requirements.
- **DC battery-powered units:** require a GFI 120 Volt, 3 amp (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") 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:

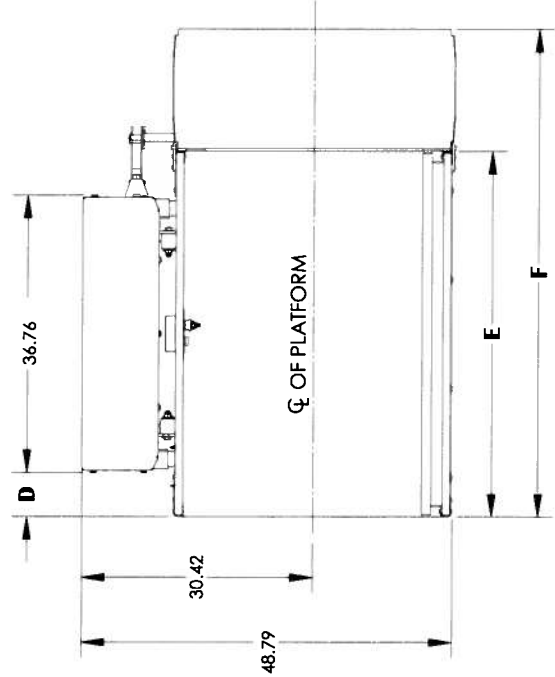
ASME code indicates the platform floor-to-sill clearance at the upper landing shall not exceed 3/4 in. (19 mm). Follow applicable local codes.

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.

BRUNO VERTICAL PLATFORM LIFT VPL-3100 SERIES

STANDARD STRAIGHT THROUGH PLATFORM



TECHNICAL DATA/SPECIFICATIONS

- 750 lbs maximum.
- RATED LOAD:
- INPUT POWER SOURCE: 110-120 Volt 15 Amp 60 Hz dedicated service.
- AC POWERED UNIT:
- DC BATTERY POWERED UNIT: 110-120 Volt 3 Amp 60 Hz.
- DRIVE:
- AC POWERED UNIT: 1 hp motor; 1750 rpm, single phase, 120 VAC, 1.15 service factor, continuous duty.
- DC BATTERY POWERED UNIT: 1/2 hp motor, 1750 rpm, 24 VDC, 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: 24 VAC Relay control.
- AC POWERED UNIT:
- DC BATTERY POWERED UNIT: 24 VDC Relay control.
- SPEED: 9 feet per minute maximum.
- AC POWERED UNIT:
- DC BATTERY POWERED UNIT: 10 feet per minute maximum.

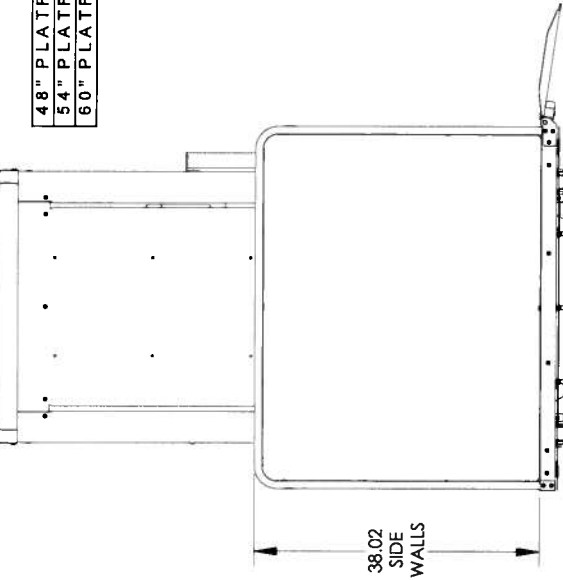
For complete technical specifications please see ILS-00834 "VPL-3100 Series Residential Vertical Platform Lift Technical Specification"

PERFORMANCE STANDARDS

- USA FOOD & DRUG ADMINISTRATION: None
- ANSI/ASME: A18.1-2008 Section 5 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

RIGHT HAND UNIT SHOWN

	A	B	C
VPL-3153	75.56	91.04	53.00
VPL-3175	99.56	113.04	75.00



	D	E	F
48" PLATFORM	5.84	48.45	64.64
54" PLATFORM	8.84	54.45	70.64
60" PLATFORM	11.84	60.45	76.64

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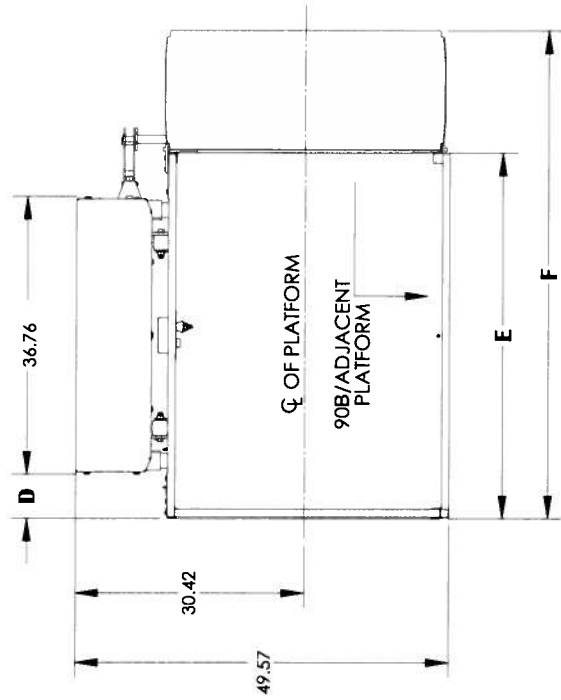
NOTES: 1) ACCESS RAMP CAN BE MOUNTED ON RIGHT OR LEFT OF THE PLATFORM
 2) SEE SHEET 3 FOR UNIT ANCHOR POINTS

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*MIN. FLOOR TO FLOOR OF VPL-3175 IS 28"
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BRUNO VERTICAL PLATFORM LIFT VPL-3100 SERIES

90° / ADJACENT EXIT PLATFORM



TECHNICAL DATA/SPECIFICATIONS

- RATED LOAD: 750 lbs maximum.
- INPUT POWER SOURCE: 110-120 Volt 15 Amp 60 Hz dedicated service.
- AC POWERED UNIT: 110-120 Volt 3 Amp 60 Hz.
- DC BATTERY POWERED UNIT: 1 hp motor, 1750 rpm, single phase, 120 VAC, 1.15 service factor, continuous duty.
- DRIVE: 1/2 hp motor, 1750 rpm, 24 VDC, continuous duty.
- DC BATTERY POWERED UNIT: 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: 24 VAC Relay control.
- AC POWERED UNIT: 24 VDC Relay control.
- DC BATTERY POWERED UNIT: SPEED: 9 feet per minute maximum.
- AC POWERED UNIT: 10 feet per minute maximum.
- DC BATTERY POWERED UNIT:

For complete technical specifications please see ILS-00834 "VPL-3100 Series Residential Vertical Platform Lift Technical Specification"

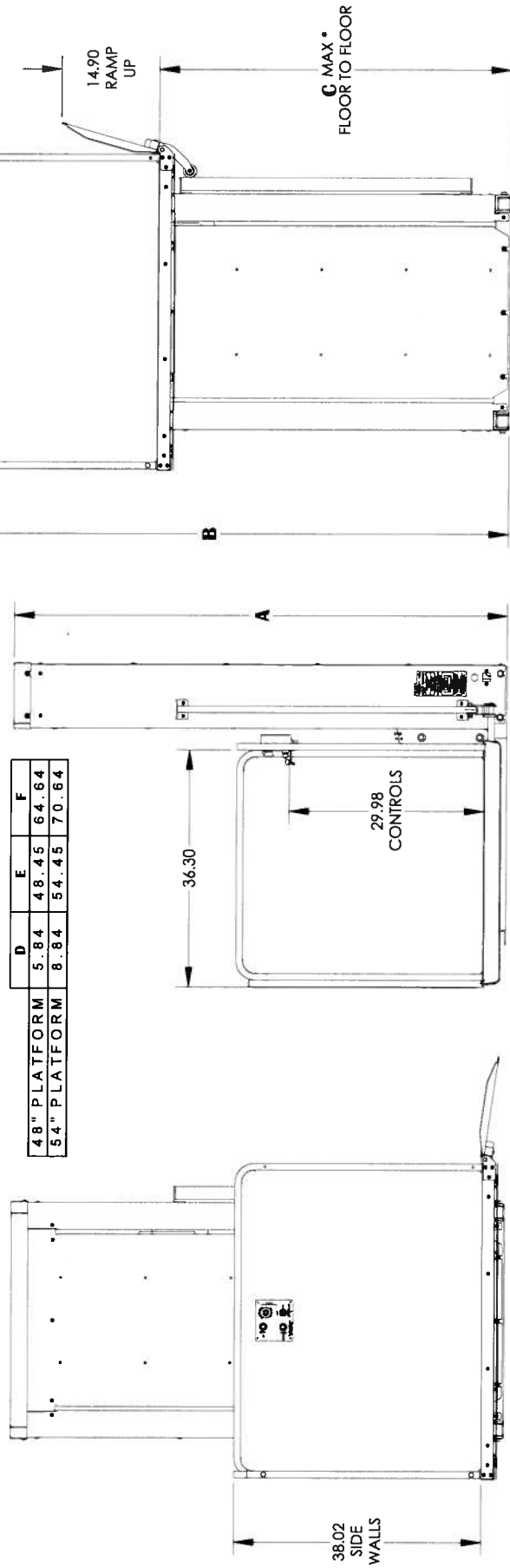
PERFORMANCE STANDARDS

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 ANSI/ASME: CSA B44.1-04/ASME-A17.5-2004 Elevator and Escalator Electrical Equipment

RIGHT HAND UNIT SHOWN

	A	B	C
VPL-3153	75.56	91.04	53.00
VPL-3175	99.56	113.04	75.00

	D	E	F
4.8" PLATFORM	5.84	48.45	64.64
5.4" PLATFORM	8.84	54.45	70.64



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NOTES: 1) ACCESS RAMP CAN BE MOUNTED ON RIGHT OR LEFT OF THE PLATFORM
 2) SEE SHEET 3 FOR UNIT ANCHOR POINTS

* MIN. FLOOR TO FLOOR OF VPL-3175 IS 28"

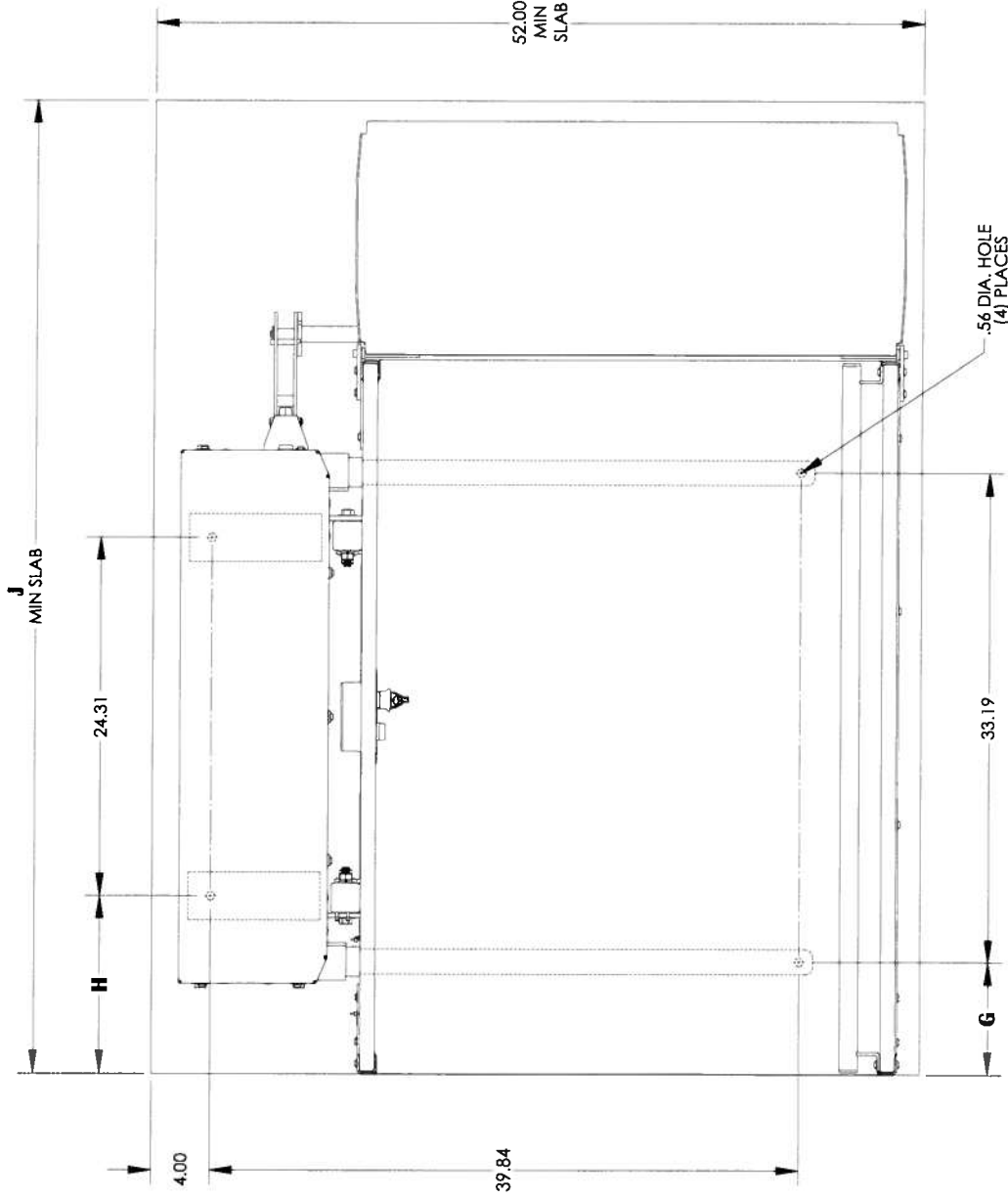
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BRUNO VERTICAL PLATFORM LIFT VPL-3100 SERIES

ANCHOR POINT LOCATIONS

	G	H	J
48" PLATFORM	7.60	12.04	66.00
54" PLATFORM	10.60	15.04	72.00
60" PLATFORM	13.60	18.04	78.00



COMMON FOR UNITS WITH STRAIGHT THROUGH OR 90B /ADJACENT EXIT PLATFORMS

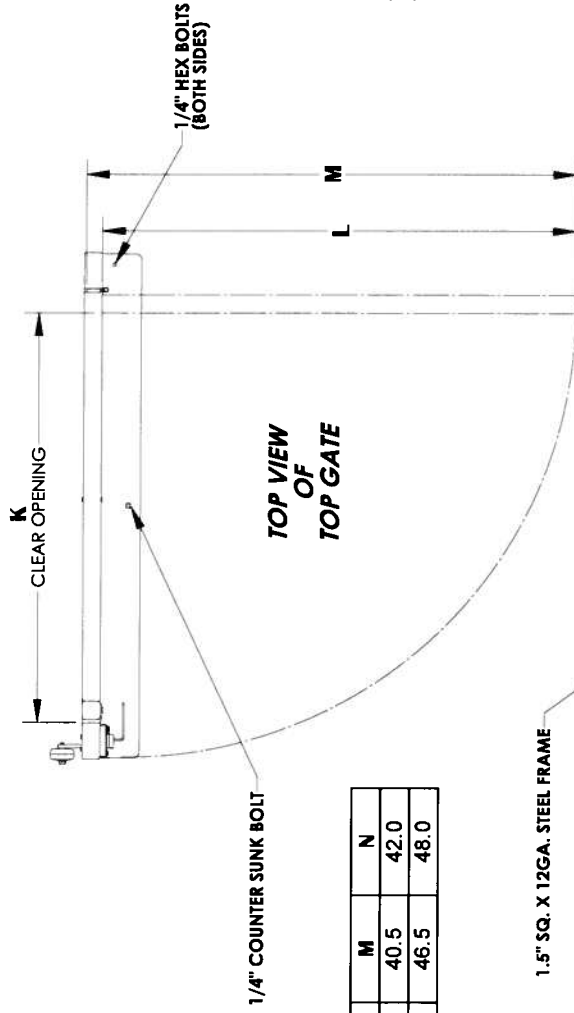
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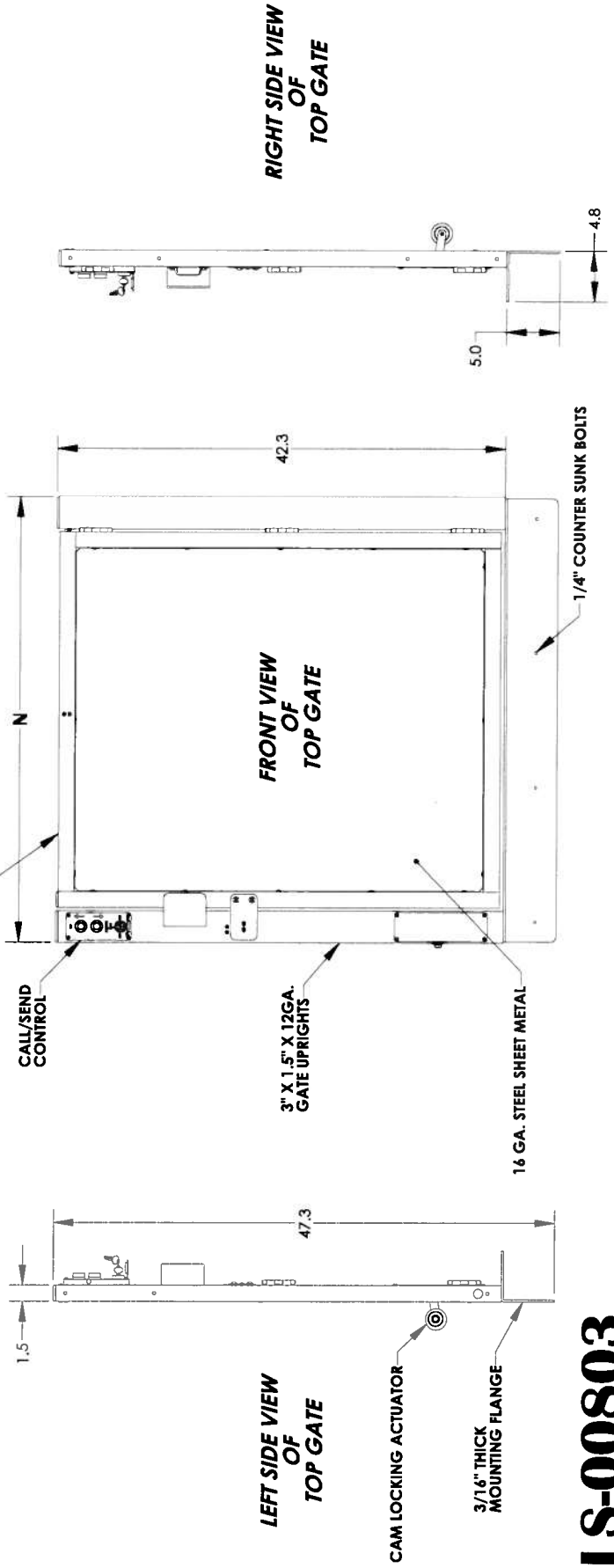
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LEFT HAND GATE DETAIL - VIEWED AT TOP LANDING



NOTE:
 (2) 1.5" X 1.5" X 5" 12GA. CHANNEL
 SUPPLIED FOR MOUNTING TO
 SUPPORT STRUCTURE.

	K	L	M	N
34" GATE	34.0	38.5	40.5	42.0
40" GATE	40.0	44.5	46.5	48.0

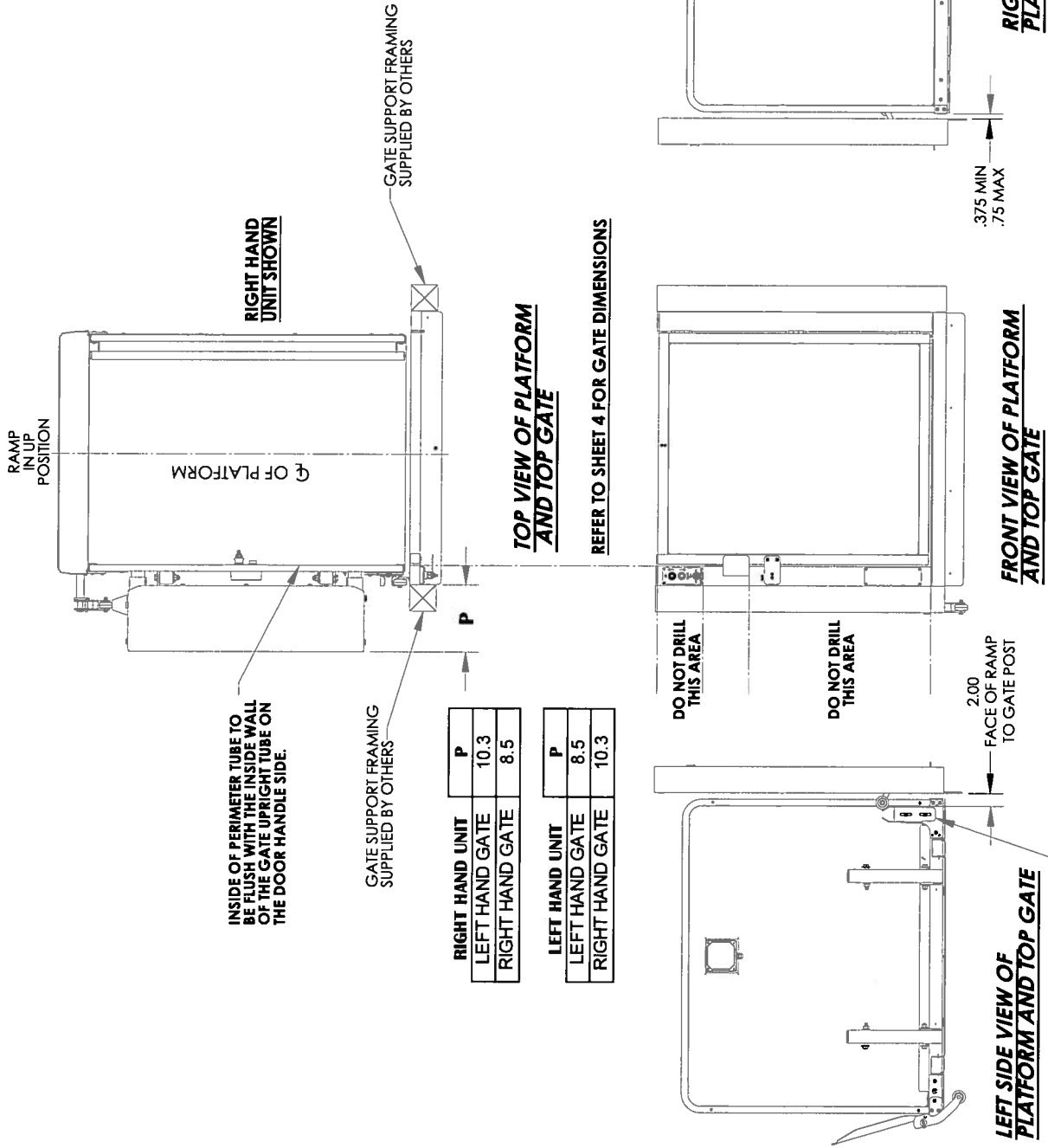


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BRUNO VERTICAL PLATFORM LIFT VPL-3100 SERIES

GATE ALIGNMENT - VIEWED AT TOP LANDING



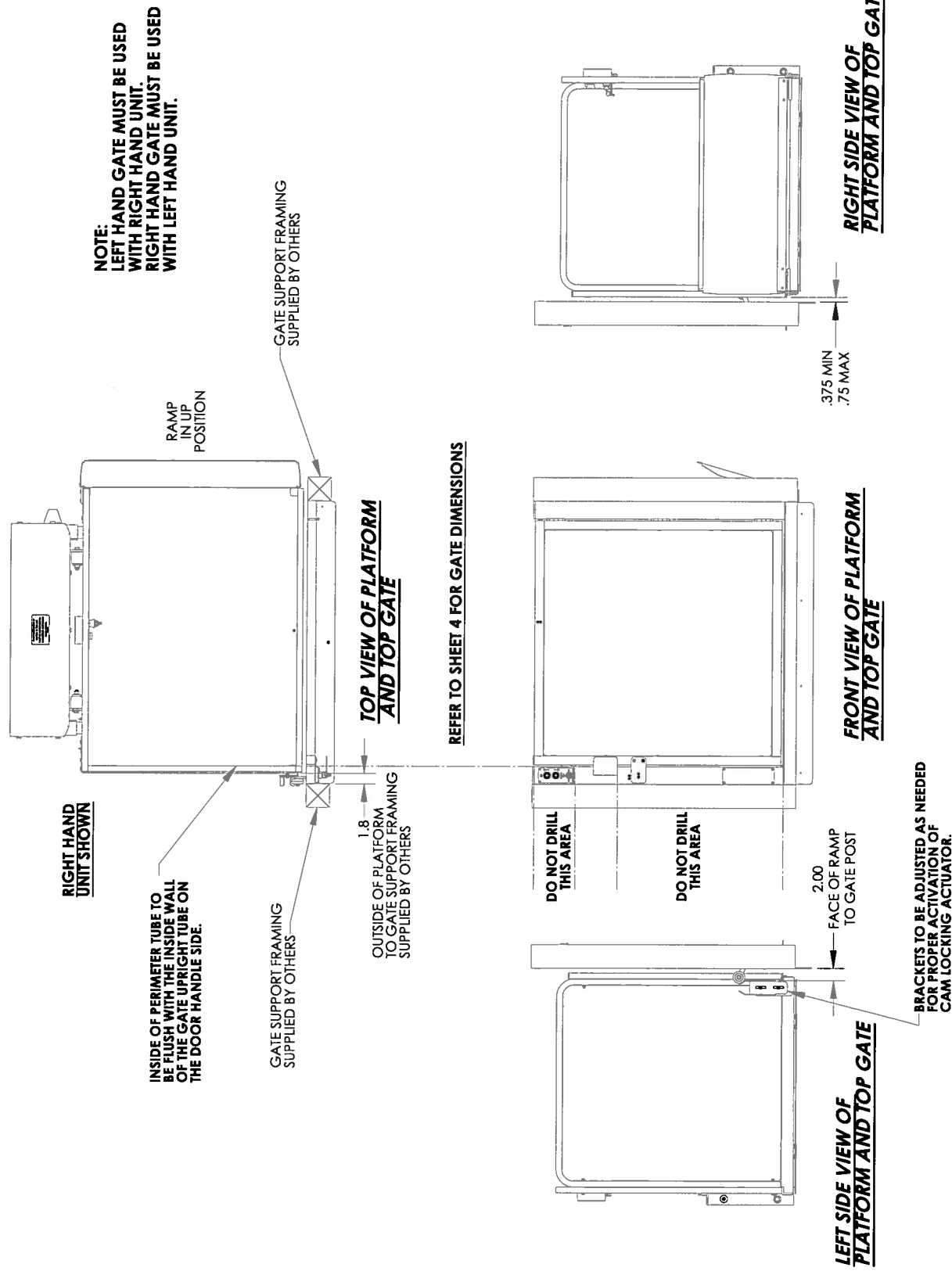
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BRUNO VERTICAL PLATFORM LIFT VPL-3100 SERIES

GATE ALIGNMENT - VIEWED AT TOP LANDING



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