

WheelFlyer™ SUBIRA HR™

HIGH-RISE VERTICAL WHEELCHAIR LIFT

7. Hoistway Entrance Systems :
 - 42" high self-closing gate shall be provided at top landing and/or
 - 6'-8" flush mount 1-1/2 hr. hollow-metal fire rated door system and/or
 - 6'-8" non-rated door system with full vision panelAll entrance systems to be equipped with:
 - Self-closure and electric door interlocks to allow platform ascent/descent only when gates/doors are closed and locked.
 - Special "blade-stop frames to allow installation of frame and door to be flush with the inside of the hoistway.
8. Grab rail on platform for rider security.
9. Platform mounted signaling device shall provide audio alarm that can be activated from platform for emergency assistance.
10. Hand wheel manual lowering device on ball screw drive (or) emergency lowering relief valve and switch on hydraulic drive to lower platform in event of power or component failure.
11. Platform mounted, ADA compliant emergency telephone device

Applicable Standards: Lift shall be designed and manufactured in accordance with the following standards:

1. American National Standards Institute (ASME/ANSI) A17.1Part XX
2. Americans with Disabilities Act (ADA)
3. Nations Building Code (BOCA)
4. National Electrical Code (NEC)
5. American Society For Testing Materials (ASTM)
6. American Welding Society (AWS)
7. Underwriter's Laboratories (UL)
8. Illinois Accessibility Code
9. Wisconsin COM 18 Elevator Code

2.02 ELECTRICAL SYSTEMS

Wiring: electrical contractor shall provide a 120V, SINGLE PHASE, 20 amp electrical power source connection.

PART 3 - EXECUTION

3.01 INSTALLATION

Lift shall be installed in accordance with manufacture's instructions and as specified and approved by architect. Lift contractor shall provide and install all specified lift components. Landing gates and doors shall be installed by others. Electrical piping and wiring by others. Final electrical connections and lift adjustments by lift contractor. Lifts subject to local, city and state codes and inspection after installation. Intent of specification is to broadly outline equipment required but not cover details of design and construction.

CODES: All designs, clearances, workmanship and material, unless specifically excepted, shall be in accordance with all codes having legal jurisdiction. Lift shall be in compliance with all applicable inspection requirements. Determination of and adherence to these regulations is the responsibility of the lift contractor.

Maintenance: Lift must be maintained in accordance with manufacturer's instructions.

Warranty: Basic components carry a one year limited warranty. Drive train carries a two year limited warranty.

Note: Dimensions and specifications are subject to constant change and continually evolving codes and product applications.

Model Porch-Lift® PL-S
As manufactured for
Integrity Group Cos., Inc. by
TK Access, LLC.

WheelFlyer™

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HIGH-RISE VERTICAL WHEELCHAIR LIFT

PART 1 - GENERAL

1.01 DESCRIPTION OF PRODUCT

Vertical wheelchair lift installed into a hoistway or shaftway. Hoistway to have walls extending to at least 42" above the top floor level or all the way to top floor ceiling depending upon code and design parameters. Hoistway/shaftway is to be designed with a 3" floor recess.

1.02 QUALITY ASSURANCE

Lift shall be designed, tested and installed in compliance with applicable regulations of all governing agencies with jurisdiction and in accordance with ASME / ANSI A.17.1 standards. All load ratings and safety factors must be certified by a professional engineer. Lift shall be subject to applicable state, local and city approval prior to installation and subject to inspection after installation.

Submittals: Lift contractor will submit presentation/shop drawings for approval. Drawings shall show rough-in and wiring requirements.

Substitutions: No substitutions will be considered unless written request for approval has been submitted by the bidder and received by the architect at least 10 days prior to the date of receipt of bids.

1.03 Work in Other Divisions

Carpentry or Masonry: Hoistway/shaftway construction, hoistway door/gate installation, floor recess.

Electrical: Piping and wiring of 110V power with disconnect, piping and wiring for 24V landing controls, phone line outlet to dedicated phone line for ADA compliant, car mounted phone.

PART 2 - PRODUCT

2.01 MANUFACTURER/INSTALLER/EQUIPMENT

Manufacturer: Lift shall be PORCH-LIFT Model PLS _____ manufactured by Access Industries, Inc., 4001 E. 138th Street, Grandview, MO, (Formerly American StairGlide Corp and The Cheney Company, Inc.)

Installer: INTEGRITY GROUP COMPANIES, INC. 1-800-321-3853 ATTN: Patrick Edwards

1. Capacity: 750lbs. with minimum safety factor of 5x.
2. Travel speed: 15fpm maximum. Lift shall stop automatically at desired landings.
3. Drive: Specify only one:
 - A: **Recirculating Ball Screw**, 120 VAC, 60 Hz, 10 amp single phase motor with minimum 1/2hp, 1725 rpm instant reverse capability. Ball bearing drive nut and screw, three groove pulleys with matched multi-V-belt and broken belt monitoring system.
 - B. **1.2 Roped Hydraulic**, with built-in emergency battery back-up
4. Static Load Test: All load ratings and safety factors shall meet or exceed those specified in ASME/ANSI A17.1, Part XX Section 2000 for public buildings when installed in a hoistway and appropriately equipped.

Fabrication/Components

1. Machine Tower: 14 gauge steel sheet, with maximum lifting height of 144 inches
2. Base Frame: 2" x 2" x 1/4" structural steel tubing.
3. Lift weldment: 3/8" hot rolled steel plate and 2" x2" x 1/4" structural steel tubing.
4. Tower Cap: 7 ga. hot rolled pickled, oiled steel plate.
5. Side Guard Panels: 22ga. steel sheet panel in 1" x2" x 14ga. steel tubing frame.
6. Front Panel: 18 ga. steel sheet.
7. Platform: 11 ga. galvanized steel plate: slip resistant surface and a platform size of: (specify 34" x 48", 34" x 56" or 34" x 60" inside dimension) NOTE: Wisconsin Code does not allow the 48" size.
8. All Welded Parts: Welders certified in accordance with requirements of AWS D1.1.
9. Coatings/Surfacing: Lift shall be finished by the following process: alkaline detergent wash, clear water rinse, iron phosphate coating, clear water rinse, non-chromate rinse, electrostatically applied thermosetting powder coat finish for indoor or out door use. Standard color is Taupe. Optional colors are Sable Brown, Pearl Gray or Ivory.

Controls and Safety Devices: Lift shall have the following:

1. Platform Control - 12 VAC constant pressure directional paddle switches and emergency stop switch.
2. Landing Controls - 12 VAC constant pressure Call/Send paddle controls.
3. Drive System Safeties:
 - Ball Screw Drive: Integral ball screw safety device and elector-mechanical brake.
 - Hydraulic Drive: Slack rope safety device. Hydraulic fluid control valve.
4. Grounded electrical system with upper, lower and final limit switches and 24VAC operating controls.
5. 42" high platform side guard panels and non-slip platform surfaces.
6. Platform underpanel equipped with obstruction sensitive cut-out safety.