

**SECTION 14 42 13
WHEELCHAIR LIFT**

PART 1 GENERAL

1.1 RELATED DOCUMENTS

- A. Documents affecting work of this section include but are not necessarily limited to, General Conditions, special provisions and sections in Division 1 of these specifications.

1.2 WORK INCLUDED

- A. The work of this section includes all labor and material necessary to install the inclined platform lift as indicated on the drawings and these specifications.
- B. Related work specified elsewhere:
 - 1. Division 26 Electrical Work

1.3 SUBMITTALS

- A. Complete shop drawings and product data by approved manufacturer for proposed installation including all accessories, dimensions, and power requirements.
- B. Submit complete suitable color selection materials for proposed installation.
- C. Submit manufacturer installation instructions.

1.4 QUALITY ASSURANCE

- A. Manufacturing company with not less than 15-years' experience in the design and fabrication of vertical platform lifts.
- B. The Manufacturer shall provide any support required for the installation of the lift including, but not limited to adaptation to existing conditions, structural requirements, and Code requirements.
- C. ASME A18.1 "Safety Standard for Platform Lifts and Stairway Chair Lifts
- D. Units shall comply with the Florida Building Code and the Florida Fire Prevention Code.

1.5 TESTING

- A. Design and test the lift in accordance with ICC/ANSI A117.1, NEC, and ASME A17.1, Part XX.
- B. Load the lift to rated capacity and test for several cycles to insure proper operation.
 - 1. Correct any defects.

1.6 WARRANTY

- A. The lift contractor shall provide three months free service from date of approval by local authorities.
- B. The entire lift and all component parts shall carry a 1-year limited warranty.
- C. The warranty shall be for the replacement at no cost of defective parts.

PART 2 PRODUCTS

2.1 VERTICAL OR INCLINED PLATFORM LIFT

- A. Vertical Platform Lift shall be Model VPL, or Inclined Platform Lift shall be Model IPL - Commercial as manufactured by Concord Elevator, Inc, or approved equal see section 01600.

Rated Load:	500 lbs (227 kg)
Normal Speed:	15 fpm (0.08 m/s) (nominal)
Platform Dimensions:	30"W x 42"L (762 mm x 1067 mm)
Operation:	Constant Pressure (Rocker Switches)
Power Supply:	110 Volt, 15 Amps
Travel Distance:	As required

Number of Stops: 2

Emergency Operation: Emergency operation with automatic recharging battery system

2.2 SIGNAGE

- A. The lift shall have all of the necessary signage, capacity plates and data signs to meet all Codes.
- B. The manufacturer shall furnish and install the capacity plate indicating rated load in pounds and kilograms and operating instructions in a conspicuous place at each landing and in the platform.
 - 1. The capacity plate and operating instructions will be engraved on non-glare, micro-surface, white letters on a blue background, self-adhesive, flexible plastic material.
 - 2. The letters and figures stating the capacity shall not be less than 1/4" in height.

2.3 TRACK

- A. Provide suitable guide track to support loads.
- B. The driven gear shall travel up and down the rack and the drive unit is an integral part of the platform and frame.
- C. No external drive box shall be located at either top or bottom of the stairway.

2.4 DRIVE SYSTEM

- A. The rack and pinion mechanism requires an approved safety device to ensure that the unit stops instantaneously in the event of a mechanical failure.

2.5 PLATFORM

- A. The platform shall be a "Through Unit" with an anti-slip surface.

2.6 NORMAL TERMINAL STOPPING DEVICES

- A. Provide normal terminal stopping devices, directly operated by the movement of the carriage, at the top and bottom of the runway to stop the carriage at the terminal landings.

2.7 FINAL TERMINAL STOPPING DEVICES

- A. Provide a final-terminal stopping device, directly operated by the movement of the carriage at the top and bottom of runway to stop the carriage and cut power to the operating controls in the event the normal terminal-stopping device fails.

2.8 SENSITIVE EDGES AND PLATFORM SENSOR PLATE

- A. Provide leading sensitive edges on ramps and under platform safety plate to stop lift in the direction of travel upon contact with an obstruction.

2.9 SAFETY RAMPS

- A. Provide loading ramps min. 6" (150 mm) high, when folded, to prevent accidental wheelchair roll-off.
- B. Mechanically and electrically, interlock ramps during travel, to prevent lift travel if ramps are lowered and to prevent the lowering of ramps during lift travel.

2.10 PLATFORM HANDRAIL

- A. Provide handrail for passenger to hold while lift is in motion.

2.11 OPERATING CONTROLS

- A. Provide constant pressure type control (Rocker Switches) so that unit can only move by holding a switch.
- B. Provide key switch for the platform or landing control stations.
 - 1. Platform controls: UP, DOWN, STOP, ALARM, ARM UP OR DOWN.
 - 2. Landing controls: UP, DOWN, STOP, AND FOLDING for calling, sending or folding the platform, or for emergency stopping.
 - 3. Provide an integral safety light to illuminate the platform for ease of operation for

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attendant assistance.

4. Provide pendant button controls at platform for ease of operation or for attendant assistance.

2.12 EMERGENCY OPERATION

- A. Provide emergency battery operation automatic recharging systems.

2.13 MANUAL LOWERING DEVICE

- A. Provide manual lowering device.

2.14 FULLY SEQUENTIAL "AUTO-FOLD" PLATFORM AND BARRIER ARMS

- A. Provide fully sequential automatic power folding platform and powered barrier arms for ease of operation, storage and safety.
- B. Barrier arms shall lock in position when lift is away from the landings.
- C. Provide control on the platform to fold arms UP or DOWN at either landing.
- D. Control the folding of arms by the location of unit for safety.

2.15 DISCONNECT SWITCH

- A. Provide a lockable fused main power Disconnect Switch including auxiliary contacts to disconnect the battery backup system by the manufacturer.
- B. The disconnect switch including auxiliary contacts shall be an integral part of the lift.

2.16 AUDIO/VISUAL ALERT

- A. Provide audio/visual alert actuated at all times when the platform is in motion (meet Local codes).

2.17 FINISH

- A. Each part shall be individually painted in Architectural White with electro statically applied baked polyester powder coating paint finish with the track in clear anodized aluminum.

PART 3 EXECUTION

3.1 INSTALLATION

- A. Install the unit in accordance with the ICC/ANSI A117.1, NEC, and ASME A18.1 Guidelines.

3.2 CLEANING

- A. Clean surfaces upon the completion of installation.

END OF SECTION