

NEW GENESIS HEALTH CLUB – SOUTHVIEW PLAZA

Salina, Kansas 2009

SECTION 14200-VERTICAL PLATFORM LIFTS

PART 1-GENERAL

1.1 SECTION INCLUDES:

- A. All materials and labor necessary to complete the installation of the vertical platform lift.
- B. Obtain all information affecting work at job site. Include verification of field, dimensions, anchoring and storage. Verify voltages and outlets on electrical drawings.

1.2 REFERENCES:

- A. The lift shall be designed and tested in accordance with ICC/A117.1, NEC and ASME A18.1 Guidelines.
- B. All designs, clearances, construction, workmanship and installation shall be in accordance with the requirements and code adopted by the authority having jurisdiction. The platform lift shall be subject to local, city and state approval prior to and following installation.

1.3 SYSTEM DESCRIPTION:

- A. The product described herein manufactured by the National Wheel-O-Vator Co., Inc., if a Vertical Platform Lift consisting of a machine tower with lifting platform, selected and dimensioned to provide adequate lifting height to suit the individual building requirements. The lift can be used either indoors or outdoors to vertically transport a wheelchair user or mobility-impaired person up and over a barrier thus creating access to or within a building.
- B. Performance:
 - 1. Rated Load: 750 pound capacity
 - 2. Travel Speed: 9 feet per minute
 - 3. Lifting Height: 14'-2"
 - 4. Platform size: 37" x 51"

1.4 SUBMITTALS:

Submit drawings or manufacturers literature for approval. Drawings shall show dimensional and wiring requirements.

1.5 QUALITY ASSURANCE:

- A. Manufacturer: Company with not less than fifteen (15) years of experience in the design and fabrication of vertical platform lifts.
- B. Technical Services: Manufacturer and authorized dealer shall work with architects, engineers, and contractors to adapt the platform lift product to the design and structural requirements of the building, site, and code requirements.

1.6 WARRANTY:

Unit shall have one (1) year limited parts warranty on the basic unit and electrical system components with a two (2) year limited parts warranty on drive components. With a Preventive Maintenance Contract, the manufacturer will extend the limited parts warranty for a period of 3 or 5 years.

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1.7 MAINTENANCE:

Maintenance of the platform lift unit shall consist of regular cleaning of the unit and regular inspection at intervals not longer than every 6 months. Rule 10.2.1 of ASME A18.1 requires all Vertical Platform Lifts to be inspected every six (6) months.

PART 2-PRODUCT

2.1 MANUFACTURER:

- A. The National Wheel-O-Vator Co., Inc., Model HBC-168, as distributed by Home Elevator, 220 Wood Avenue, Wichita, Kansas 67212, 316-721-2225 phone, or the approved equal.
- B. No substitution shall be considered unless written request for approval has been submitted and received by the architect at least ten (10) days prior to the bid date.
- C. Each substitution request shall include the name of the material for which it is to be substituted and a complete description of the proposed substitutions including drawings, performance and test data, a list of projects similar in scope, photographs of existing installation, design differences, and other information necessary for evaluation.

2.2 FABRICATION:

- A. Platform shall be constructed of 12-gauge minimum zinc clad steel. If unit is not installed in a 3-inch pit, a stationary ramp shall be provided that extends under the lower landing gate/door.
- B. Platform side panels must be 42" high. Side panel framework shall be a minimum of 1" x 1 ½" x .125 aluminum tubing for outdoor units. Solid infill panels shall have a minimum of 24-gauge zinc clad steel.
- C. The mainframe support tubings shall be a combination of square and rectangular steel tubing with a minimum .120 wall thickness.
- D. Carriage arms shall be a minimum of 1" x 2" steel flat bar along with ½" thick steel flat bar uprights. Cam rollers shall be used for axial carriage guidance and wear pads used for horizontal stability.
- E. Loaded fasteners shall be grade five or higher. Locking fasteners shall be used in all critical locations.
- F. The machine tower sides shall be of 12-gauge steel and front and back covers shall be 18-gauge zinc clad steel minimum.
- G. The drive mechanism shall be an Acme screw design. The screw shall be a minimum of 1" diameter. The Acme screw shall have a secondary safety nut, which in the event of a main lift nut failure will prevent uncontrolled descent.
- H. The motor shall be instant reversing with a minimum of ¾ HP capacity.
- I. The operating control circuit shall be 24 volts.
- J. Finish shall be electro statically applied power coating oven bakes to cure.

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- K. An upper final limit switch shall be provided to cut off all power and stop the platform in the event of the upper limit switch failure.
- L. Color shall be selected from manufacturers standard color or optional colors.
- M. Constant pressure up/down control switch shall be installed at the landing levels and on the platform.
- N. When not installed with a runway enclosure, the platform shall be equipped with an obstruction panel that will stop the downward travel if an obstruction is encountered.
- O. An emergency stop/illuminated alarm switch shall be provided on the car as a means of signaling for assistance in the event of an emergency.
- P. A grab rail shall be provided on the platform.
- Q. A hand crank shall be provided as a means of manually raising and lowering the platform in the event of a power or component failure.
- R. The main lift unit will be equipped with a continuous lube system to distribute lubrication between main lift nut and the Acme screw.
- S. A solid mechanical and electrical interlocked gate with a minimum height of 42 inches shall be provided upper landing.
- T. A mechanical and electrical interlocked gate shall be provided shall be provided at the lower level. The height shall depend on model and code restrictions.
- U. Unit to be equipped with the “simplex” base and carriage design, which allows the carriage to be folded to reduce the shroud and carriage width to 18” for ease of installation, without removal of any carriage attaching bolts.
- V. Unit must be trial assembled and tested in factory before shipment.

2.3 ACCESSORIES:

- A. Lower landing shall be provided with an acrylic door and side filler panel.
- B. Upper landing shall be provided with an acrylic gate 42” high and side filler panel.
- H. Low Profile Carriage (LPC) option is available on all BC lifts installed in runways by others. This option will shorten the required ramp from 30” to 10” in existing construction or to 16” in new construction.

PART 3-EXECUTION

3.1 ACCEPTABLE INSTALLERS:

- A. Subcontractor Qualifications: A company that is listed as an authorized National Wheel-O-Vator dealer.
- B. Electrical devices, services, and final connections shall be by a qualified electrician.

3.2 INSTALLATION:

- A. Unit shall be installed and operated in accordance with the ICC/A117.1, NEC and ASME A18.1 Guidelines.

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- B. A dedicated electrical circuit with a lockable service disconnect switch rated per Table 1 shall be supplied by the electrical contractor at job site. (Depending on local electrical codes, a G.F.I. device may be required). Please confer with lift contractor to determine appropriate motor for specified applications.

Table 1

<u>OVERCURRENT PROTECTIVE DEVICE RATINGS</u>			
H.P.	VOLTAGE	DUAL ELEMENT FUSE TIME DELAY	INVERSE TIME BREAKER
¾ HP	115V	20A	30A
1 HP	115V	30A	30A
1 ½ HP	115V	30A	30A
¾ HP	230V	12 to 14 A	20A
1 ½ HP	230V	15A	20A

- C. Coordinate work with general contractor.
- D. Leave standard electrical connection drawings with electrical contractor to make final electrical connection
- E. The installation of the vertical platform lift shall be made in accordance with the approved plans and specifications and the manufacturers installation instructions.

3.3 FIELD QUALITY CONTROL:

Load the vertical lift to rated capacity and test for several cycles to insure proper operation. No mechanical failures shall occur and no wear that would affect the reliability of the unit shall be detected.

End of Section 14420