

SECTION 14420

WHEELCHAIR LIFTS

PART 1 GENERAL

1.01 SUMMARY

A. A vertical platform (wheelchair) lifting device, manufactured by Staying Home Corp., designed to provide access to or within a building for mobility impaired persons. Lift consists of machine drive unit & rails. Lifting platform selected and dimensioned to provide adequate lifting height to suit building access requirements indoors and out.

1.02 REFERENCES

A. Lift shall be designed, manufactured and installed in accordance with the following standards:

1. American National Standards Institute (ANSI).
2. American Society of Mechanical Engineers (ASME).
3. ADA Accessibility Guidelines (ADAAG).
4. Underwriters Laboratories (UL).
5. International Building Code (IBC).
6. National Electrical Code (NEC).
7. American Society for Testing Materials (ASTM).
8. American Welding Society (AWS).

1.03 SYSTEM DESCRIPTION

A. Drive: Dual cable winding drums.

1. Battery powered cable drum drive; 24 VDC, instant reversing motor with two 12 V, 10 AH, sealed no maintenance batteries with 24V 2.0 amp "smart charge" battery charger.

B. Number of Stops: (specify:) Two or three.

C. Platform Configuration: (specify:) straight-thru, 90° exit or enter/exit same side.

D. Maximum Travel: (specify:) 48", 72", 96", 120", 144" or 168".

E. Rated Load: 750 lbs. with minimum safety factor of 5X.

F. Rated Speed: 16 to 18 fpm with rated load.

G. Platform Size: (specify): 36"x48" standard, or optional 36" x 54" , 36"x 60" , 42" x 54" or 42" x 60" aluminum platform with 42" high aluminum guard panels.

H. Power Supply Wiring: Electrical contractor shall provide 115 VAC, single phase, 10 amp, 60 Hz power circuit for the 24vdc charger.

I. Operating Features:

1. Platform Controls: Directional switch, on/off key switch, emergency stop switch with Alarm.

2. Landing Controls: Directional switch and on/off key switch (specify options): mounted inside Gate/door frames or wall mount.

3. Constant pressure operation.

4. 24vdc battery system with upper, lower and final limit switches and 5V operating controls.

5. Platform under panel equipped with obstruction sensors.

6. Fixed ramp with incline of 1:6 (specify): fixed or automatic (required if lift is not installed in a pit).

7. Non-slip surface on aluminum platform floor and ramp.

8. Grab rail on platform.

9. Manual lowering device.

10. Integral slack cable / broken rope safety device.

11. Pit switch (optional - where required by code).

12. Telephone jack on platform (optional).

13. Upper Landing Gate/Door: (specify):

a. 42" high, self-closing gate with EMI mechanical interlock and (specify:) aluminum sheet or acrylic insert panel. Select size:

- 1) 36" clear
- 2) 42" clear

b. 6'-8" self-closing, flush mount, 1-1/2 hour fire rated door with EMI mechanical interlock and 3"x26" glass vision panel.

c. 6'-8" self-closing, flush mount, non-fire rated aluminum door with EMI mechanical interlock

14. Lower/Middle Landing Door: (specify):

a. 6'-8" self-closing, flush mount, 1-1/2 hour fire rated door with EMI mechanical interlock and 3"x26" glass vision panel.

b. 6'-8" self-closing, flush mount, non-fire rated aluminum door with EMI mechanical interlock.

15. Automatic Gate/Door openers (optional).

#### 1.04 QUALITY ASSURANCE

A. Manufacturer: Provide wheelchair lift manufactured by a firm with a minimum of 25 years experience in fabrication of wheelchair lifts equivalent to those specified.

B. All designs, clearances, workmanship and material, unless specifically accepted, shall be in accordance with all codes having legal jurisdiction.

C. All load ratings and safety factors shall meet or exceed those specified by all governing agencies with jurisdiction and shall be certified by a professional engineer.

D. Lift shall be subject to applicable state, local and city approval prior to installation and subject to inspection after installation. Determination of and adherence to these regulations is the responsibility of the lift contractor.

E. Welders certified in accordance with requirements of AWS D1.1 shall perform all welding of all parts.

F. Substitutions: No substitutions permitted.

## 1.05 WARRANTY

A. Warranty: Manufacturer shall warrant the SHC-VPL vertical platform lift's drive system (motor, gear, circuit board) for a life time for the original purchaser after installation, 1 year on batteries and 2 years all other components.

## 1.06 MAINTENANCE

A. The SHC-VPL vertical platform lift must be maintained in accordance with manufacturer's instructions.

## PART 2 PRODUCT

### 2.01 MANUFACTURER

A. Provide SHC-VPL vertical platform lift manufactured by Staying Home Corp.

1. Contact: 2501 Anaconda Road, Harrisonville Missouri 64701;

Email: [info@stayinghome.com.com](mailto:info@stayinghome.com.com); Web site: [www.stayinghome.com.com](http://www.stayinghome.com.com)

### 2.02 MATERIAL

A. Machine Tower: Aluminum rails & tower panels.

B. Guide Rail: 0.190" aluminum 6063-T6 extrusion

C. Base Frame: 1/4" formed A36 plate

D. Lift Weldment: 1-1/2"x2-1/5"x1/4" wall A500 tubing and C3x5 A36 structural channel

E. Side Guard Panels: 9/32" aluminum 5052 sheet

F. Front Access Panel: 9/32" aluminum 5052 sheet

G. Platform: 3/16" aluminum 5052 sheet

H. Access Ramp: 11ga A1011 sheet

### 2.03 FINISHES

A. Components shall be prepared with 1) alkaline detergent wash, 2) clear water rinse, 3) iron phosphate coating, 4) clear water rinse and finished with electrostatically applied thermosetting powder coat finish for indoor or outdoor use. Standard color is RAL9002 GREY WHITE.

## 2.04 ELECTRICAL SYSTEMS

- A. The electrical contractors shall provide a 115V, single phase, 10 amp, 60 Hz electrical power source connection for the 24vdc charger.
- B. Electrical piping and wiring supplied by others.
- C. Final electrical connections performed by lift contractor.

## PART 3 EXECUTION

### 3.01 ACCEPTABLE INSTALLERS

- A. Installers shall be experienced in performing work of this section who have specialized in work comparable to that required for this project.
- B. Installers shall be certified and trained by the manufacturer.

### 3.02 EXAMINATION

- A. Use field dimensions and approved manufacturer's shop drawings to examine substrates, supports and other conditions under which this work is to be performed. Do not proceed with work until unsatisfactory conditions are corrected.

### 3.03 INSTALLATION

- A. The SHC-VPL vertical platform lift shall be installed in accordance with manufacturer's instructions and as specified and approved by architect.
- B. Landing gates and doors shall be installed by others. Electrical piping and wiring by others. Final electrical connections and lift adjustments by lift contractor.

### 3.04 DEMONSTRATION

- A. The lift contractor shall make a final check of the lift's operation with the Owner or Owner's representative present prior to turning the lift over for use. The lift contractor shall determine that operating and safety devices are functioning properly.

END OF SECTION