

SECTION 14 42 23  
CONVERTIBLE STAIRWAY LIFT

PART 1 GENERAL

1.1 SUMMARY

- A. Section Includes: Convertible Stairway Lifts.

1.2 REFERENCES

- A. ADAAG Accessibility Guidelines for Buildings and Facilities.
- B. ASME A18.1 – 2005 or later Safety Standard for Platform Lifts and Stairway Chairlifts.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's data sheets on the product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- B. Shop Drawings: Show dimensions and locations of all items including attachment to supporting structure.

1.4 CLOSEOUT SUBMITTALS

- A. Approvals from authorities having jurisdiction.
- B. Operations and Maintenance Manuals.

1.5 QUALITY ASSURANCE

- A. Comply with ASME A18.1 standard for lifts in public installations.
- B. Installer Qualifications: A company regularly engaged in the business of manufacturing, installing and servicing Convertible Stairway lifts of the type specified for at least 5 years, and with a history of successful installations acceptable to the Architect.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.7 FIELD CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 WARRANTY

- A. Limited 1-year warranty parts only.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- A. Acceptable Manufacturer: Lift-U Division of Hogan Mfg, Inc., 1520 First Street, Escalon, CA 95320. Tel: 209-838-2400. Sales Tel: 937-836-6900. Sales Fax: 937-836-6901. Web Site: <http://liftu.hoganmfg.com> E-mail: [information@hoganmfg.com](mailto:information@hoganmfg.com)
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Division 01 Section "Product Requirements".

### 2.2 CONVERTIBLE STAIRWAY LIFTS

- A. Provide "AccesStair (VMH)" Convertible Stairway Lift.
  - 1. Comply with the following:
    - a. ASME A18.1 standard for lifts in public installations.
    - b. ADA requirements for stair rise and run and for handrails.
  - 2. Rated Load: 750 lbs. (340 kg) rated capacity with a weight safety factor of not less than 5 based upon the rated load.
  - 3. Vertical Platform Speed: 10 feet (3 m) per minute nominal.
  - 4. Top Landing: Equip with a power-operated roll up gate 3 feet 6 inches (1.07 m) high. Provide gate with both mechanical and electrical contacts, which prevents operation of the platform unless gate is fully deployed.
  - 5. Lower Landing: Equip platform with a power-operated passenger-restraining arm. Provide restraining arm with both mechanical and electrical contacts, which prevents operation of the platform unless restraining arm is in guarding position.
  - 6. Threshold Barrier: Equip platform with a retractable barrier at lower landing entrance. Provide retractable barrier with both mechanical and electrical contacts, which prevents operation of the platform unless barrier is in guarding position.
  - 7. Underside of Platform: Enclose with metal roll-up bellows.
  - 8. Lift Mechanism: Electric motor drives two (2) mechanically synchronized screw columns – no hydraulics permitted.
  - 9. Power Requirements: Install dedicated breaker protected service 208 / 230 VAC, 3-wire, 20 amp, single phase service supplied from building power source. Dedicated breaker protected service supplied by Owner or Owner's Representatives.
  - 10. Conceal From View: Mechanical mechanisms and electrical control devices.
- B. Fabrication: Construct lift of steel or aluminum panels and frames with welded or bolted connections.
- C. Operation: Utilize low voltage (24 VDC) constant pressure control switches, designed for operation by persons with limited dexterity according to ADA requirements.
  - 1. Controls: Equip lift with operator controls machine mounted at lower landing and lift platform. Provide a security key switch at lower landing operator control station to prevent unauthorized use. Provide upper landing operator control station loose for wall mounting.
  - 2. Emergency Stop Button: Provide an illuminated emergency stop button at each control station.

3. Emergency Alarm System: Include an audible alarm that is automatically activated when the emergency stop button is depressed.
  4. Limit Switches: Equip lift with redundant upper and lower limit switches. Provide mechanical stops to limit travel in both directions.
  5. Battery: Provide backup battery.
  6. Manual Operation: Provide device to manually lower or raise platform.
  7. Lockable Disconnect: Equip lift with a lockable disconnect switch machine mounted at the upper landing.
- D. Finishes:
1. Apply metal surfaces with a corrosion resistant powder coating.
    - a. Color: Visible panels; beige or dark brown.
  2. Stair Handrails: Molded vinyl cover; black.
  3. Standard Floor Treatment for Steps and Upper Landing: Composite vinyl; black.
    - a. Provide contrasting color strip on first step and upper landing nosings.
  4. Custom Floor Treatment for Upper Landing: Upper landing floor treatment provided by Owner and installed by contractor.
    - a. Coordinate use of Owner's material with lift manufacturer before placing order.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared. Floor must be level prior to lift installation.
  1. Prepare report documenting unacceptable conditions.
  2. Submit report to Contractor.
  3. Do not proceed with work until corrective measures have been completed.
- B. Check power requirements supplied by Owner / Owner Representatives.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using methods recommended by manufacturer to achieve the best result for project conditions.
- C. Install unit after adjacent wall and ceiling finishes are completed.

### 3.3 INSTALLATION

- A. Install in accordance with the following:
  1. Manufacturer's instructions.
  2. Approved shop drawings.
  3. Applicable regulations and codes.

### 3.4 FIELD TESTING

- A. Upon completion of installation and as a condition of acceptance, provide necessary equipment and personnel to perform tests required.

### 3.5 CLOSEOUT ACTIVITIES

- A. Secure required approvals from authorities having jurisdiction.
- B. Provide training of Owner's personnel on proper use and operation of Lift.

### 3.6 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

### 3.7 MAINTENANCE

- A. General: Provide maintenance services using qualified personnel for the following time period:
  - 1. For period between Substantial Completion and Final Completion.
  - 2. For one year following Substantial Completion.
  - 3. For one year following Final Completion.
- B. Perform maintenance in accordance with manufacturers recommended procedures.
  - 1. Perform additional maintenance as needed to assure proper and safe operation and as needed to avoid damage.
- C. Perform the maintenance according to the following schedule:
  - 1. Cycle Testing for Special Access Lifts: Weekly.
  - 2. Routine Maintenance: Every 6 months or as required by authority having jurisdiction, whichever is more frequent.
  - 3. Periodic Maintenance: Every 5 years or as required by authority having jurisdiction, whichever is more frequent.
  - 4. Submit maintenance logs to Owner immediately upon completion of each inspection.

END OF SECTION