

SECTION 14 42 23
CONVERTIBLE STAIRWAY LIFT

PART 1 GENERAL

1.1 SUMMARY

Section Includes: Convertible Stairway Lift

1.2 REFERENCES

- A. 2010 ADA Standards for Accessible Design
- B. ASME A18.1 Safety Standard for Platform Lifts and Stairway Chairlifts

1.3 SUBMITTALS

- A. Submit under provisions of Section 01300
- B. 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
- C. Shop Drawings: Show dimensions and locations of all items including attachments to supporting structure required.

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 serving wheelchair 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

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

Limited 1-year warranty parts only.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: LIFT-U Div. of Hogan Mfg., Inc., 1520 First Street, Escalon, CA 95320. Tel: 209-838-2400 Sales - Tel: 937-836-6900 Fax: 937-836-6901
Website: www.lift-u.com E-Mail: information@hoganmfg.com
- B. U.S. OWNED AND OPERATED: Manufacturer must be a registered U.S. owned company with its manufacturing operation located in the United States of America – American Owned, American Operated.
- C. Substitutions: Not permitted.
- D. Requests for substitutions will be considered in accordance with provisions of Division 01 Section "Product Requirements".

2.2 CONVERTIBLE STAIRWAY LIFT

- A. Provide "AccesStair (VHM)" Convertible Stairway Lift.
- B. Comply with the following:
 - 1. ASME A18.1 standard for lifts in public installations.
 - 2. ADA requirements for rise and run and for handrails.
- C. Rated Load: 750 lbs. (340 kg) rated capacity with a weight safety factor of not less than 5 based upon the rated load.
- D. Vertical Platform Speed: 10 feet (3 m) per minute nominal.
- E. Top Landing: Equipped with a power-operated roll-up gate 3 feet 6 inches (1.07 m) high. Provide gate with both mechanical and electrical contacts, which prevent operation of the platform unless gate is fully deployed.
- F. Lower Landing: Equip platform with a power-operated passenger-restraining arm and rotating ramp/roll stop. Provide restraining arm and roll stop with both mechanical and electrical contacts, which prevents operation of platform unless both barriers are in guarding position.
- G. Enclose mechanical and electrical mechanisms and protect from weather.
- H. Power Requirements: Install dedicated breaker protected service 208 / 240 VAC, 3-wire, 20 amp, single-phase service supplied from building power source. Dedicated breaker protected service supplied by Owner or Owner's Representatives.

- I. Lift platform stores beneath the lowest stair until needed.
- J. Fabrication: Construct lift of steel or aluminum panels and frames with welded or bolted connections.
- K. Operation: Low voltage (24 VDC) operation with constant pressure control switches, designed to be easily operated by a person with limited dexterity according to ADA requirements.
- L. Controls: Equip lift with controls at top and bottom landings and platform. Provide a security key switch on lower control station to prevent unauthorized use.
- M. Emergency Stop Button: Provide an illuminated emergency stop button on each control panel.
- N. Emergency Alarm System: Audible alarm that is automatically activated when the emergency stop button is depressed.
- O. Limit Switches: Equip lift with redundant upper and lower limit switches. Provide mechanical stops to limit travel in both directions.
- P. Emergency Power: Provide backup battery capable of operating the lift through its full range of travel for 5 cycles at rated load.
- Q. Manual Lowering Device: Provide device to manually lower or raise platform.
- R. Finishes:
 - 1. Apply metal surfaces with a corrosion resistant powder coating.
 - 2. Color: Visible panels; beige or dark brown.
- S. Stair Handrails: Molded vinyl cover; black.
- T. Standard Floor Treatment for Steps and Upper Landing: Composite vinyl; color, black. Provide contrasting color strip on each step and upper landing nosing.
- U. Floor Treatment for Steps and Upper Landing: Black non-slip commercial flooring provided. Flooring treatment can be provided by the Owner and installed by others. 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.
- B. Prepare report documenting unacceptable conditions.
- C. Submit report to Contractor.
- D. Do not proceed with work until corrective measures have been completed.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using methods recommended by manufacturer for achieving the best result for project conditions.

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

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 Owners personnel on proper use and operation of Wheelchair 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. Perform maintenance in accordance with manufacturer's recommended procedures
- B. Perform 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 (by Owner's Representative)
 - 2. Routine Maintenance: Every 6 months or as required by authority having jurisdiction, whichever is more frequent. (by Owner's Maintenance Service Provider or Licensed Service Provider)
 - 3. Periodic Maintenance: Every 5 years or as required by authority having jurisdiction, whichever is more frequent. (by Owner's Maintenance Service Provider or Licensed Service Provider)
 - 4. Submit maintenance logs to Owner immediately upon completion of each inspection and service call. (by Owner's Maintenance Service Provider or Licensed Service Provider)

END OF SECTION