

SECTION 14 42 31
WHEELCHAIR LIFT
AUTOMATIC DOOR OPERATOR

PART 1 GENERAL

1.1 SUMMARY

Section Includes: Wheelchair Lift Automatic Door Operator

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 – Fax: 209-691-0187
Website: www.lift-u.com E-Mail: liftusales@lift-u.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 AUTOMATIC DOOR OPERATORS

- A. General: Automatic Door Operator shall be provided with an interlock to prevent automatic actuation when the doors are locked.
- B. Operators shall provide a control mechanism to soften the end of door travel during both opening and closing cycles.
- C. Operators shall be capable of recycling doors instantaneously to full open position from any point in the closing cycle when the control switch is activated.
- D. Operators shall, when automatic power is interrupted or shut-off, permit doors to easily open manually without damage to the automatic operator system.
- E. Operators shall have a self-contained electrical control unit, including necessary electronic components for proper operation and switching of power operation. All connecting harnesses shall have interlocking plugs.
- F. Electronic Controls
 - a. The system shall provide a means to adjust hold open time (1-30 seconds) on doors that automatically close without user intervention.
 - b. Locking Hardware: The system shall incorporate locking hardware at interior doors as required by ASME A18.1 Safety Standard for Platform Lifts and Stairway Chairlifts.
- G. Door Controls
Opening and closing actions of doors shall be actuated by controls and safety devices specified.

- H. Door Hinges
 - a. Hinges are provided by others.
 - b. Hinges shall be heavy duty pin & leaf type hinges with bearings.
 - c. Hidden or SOSS type hinges are not compatible with the automatic door operator.
- I. Safety Devices
 - a. General: Area over which doors swing shall be a safety section and anyone standing in path of door's movement shall be protected by a safety device.
 - b. Comply with the following:
 - i. ASME A181.1 Standard for lifts in public installations.
 - ii. ADA requirements for wheelchair lifts.
- J. Fabrication
 - a. Construct Door Operator of steel or aluminum structural frame with welded or bolted connections.

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