

**SECTION 14 42 13  
INCLINED PLATFORM WHEELCHAIR LIFT**

**PART 1.00 - GENERAL**

**1.01 GENERAL REQUIREMENTS**

- A. Contractor is referred to the Instructions to Bidders and General Conditions, NYCHA Contracts; the Special Notice to Contractors; the Form of Proposal; the Form of Bid Bond; Division 01 - General Requirements of the Contract Specifications; the Contract Drawings and all Amendments and Addenda thereto; all of which govern the Work of this Section.

**1.02 WORK INCLUDED**

- A. Installation of inclined wheelchair platform lift over new concrete stairs, with all associated anchoring, finishes, and electrical work.

**1.03 RELATED WORK**

- A. Section 26 05 00 – Common Work Results for Electrical.

**1.04 QUALITY ASSURANCE**

- A. Manufacturer shall have not less than twenty years' experience in the design and manufacture of inclined wheelchair lifts.
- B. Installer Qualifications: Minimum two (2) years' experience installing similar projects.

**1.05 REFERENCES**

- A. ADA Accessibility Guidelines for Buildings and Facilities (ADAAG).
- B. ASME A17.5 - Elevator and Escalator Electrical Equipment.
- C. ASME A18.1 - Safety Standard for Platform Lifts and Stairway Chairlifts.
- D. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
- E. NFPA 70 (NEC) - National Electrical Code.

**1.06 SUBMITTALS**

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Installation methods.
- C. Shop Drawings: Drawings shall show dimensional and wiring requirements, all installation, support and anchoring methods.
- D. Verification Samples: For each finish product specified, two samples 2 x 3 inches (50 x 75 mm) representing actual product, color, and patterns.

**1.07 WARRANTY**

- A. Manufacturer shall provide a warranty for a period of ten (10) years on the drive train, four (4) years on all other components, and 90 days on labor, starting from the date of installation.

**1.08 SEQUENCING**

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

**1.09 PRE-INSTALLATION MEETING**

- A. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved.

## 1.10 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
- B. Handle materials to avoid damage.

## PART 2.00 - PRODUCTS

### 2.01 MANUFACTURERS

- A. Acceptable Manufacturers:
  - 1. Titan Incline, Ameriglide, 800-990-8268, [info@ameriglide.com](mailto:info@ameriglide.com), [www.ameriglide.com](http://www.ameriglide.com).
  - 2. Ascension, AGM Container Controls, Inc., 3526 E. Ft. Lowell Rd.; Tucson, AZ 85716; 800-459-0400; Tel: 520-881-3993; [WebSales@ascension-lift.com](mailto:WebSales@ascension-lift.com); Web:<https://ascension-lift.com>.
  - 3. Savaria, [www.savaria.com](http://www.savaria.com), 800-661-5112.
- B. Or equal.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

### 2.02 INCLINED PERMANENTLY-INSTALLED WHEELCHAIR LIFTS

- A. Inclined platform wheelchair lift with self-contained drive system, and the following:
  - 1. ADA Compliance, including all applicable operating and safety devices.
  - 2. Low-Profile Platform Floor, no need for pit or access ramp at lower landing and facilitates entry into lift platform.
- B. Lift Product: Machine cabinet, transparent runway enclosure, and lifting platform servicing two (2) landings, each on opposing sides of the lift.
  - 1. Machine Cabinet, installed against uppermost landing serviced providing clear view lines through the transparent runway enclosure on three sides.
  - 2. Unobstructed view, open with guard rails on three (3) sides of enclosure.
  - 3. Required Installation Space: 48.13 x 67.38 inches (1225 x 1710 mm).
- C. Physical Characteristics:
  - 1. Platform Size: 36 x 56 inches (914 x 1422 mm).
  - 2. Lifting capacity: 750 lbs (340 kg).
  - 3. Inclined Speed: 20 fpm (6 mpm).
  - 4. Inclined Travel: 34 to 168 inches (865 to 4265 mm).
- D. Doors and Gates:
  - 1. Lower Landing Door:
  - 2. Manual Operation: Right handed (verify prior to provision of shop drawings). Self-closing.
- E. Upper Landing Door:
  - 1. Manual Operation: Right handed (verify prior to provision of shop drawings). Self-closing.
- F. Upper Landing Gate:
  - 1. Manual Operation: Right handed (verify prior to provision of shop drawings). Self-closing.
- G. Materials:
  - 1. Guide Rails: Aluminum alloy, integral to machine cabinet.
  - 2. Guide Rail Brackets and Cabinet Supporting Members: Steel.
  - 3. Platform Frame: Steel.
  - 4. Platform Grab Bar and Accent Rails: Stainless steel.
- H. Finishes:
  - 1. Grab Bar and Accent Rails: Brushed stainless steel.
  - 2. Exposed Metal Surfaces: Powder coat.
  - 3. Color: Silver Metallic.
- I. Drive Configuration: 2:1 chain hydraulic.

1. Platform Support: 2 hydraulic jacks with 2 suspension chains each.
  2. Suspension Chains: No. 50 roller chain, 5045 lbs (22.4 kN) breaking strength.
  3. Hydraulic Power Unit: Mounted on vibration-isolating supports to minimize vibration transmission and reduce frame-borne noise.
- J. Electrical Requirements:
1. Amperage Draw per Lift: 6 Amps maximum.
  2. Service Line: 120 VAC, 60 hertz. Amperage capacity: Exceeding 6 Amps.
  3. Full-Time Battery Power: Integral 24 VDC SLA battery bank.
  4. Motor: 3 hp (2.1 kW), 24 VDC.
  5. Electrical System: Certified to ASME A17.5 by independent testing laboratory.
- K. Safety Devices:
1. Lift Construction: Meet applicable requirements of ASME A18.1, ASME A17.5, ADAAG, ANSI 117.1, and NFPA 70 (NEC) as applicable.
  2. Safety features for protection of passengers and general public:
    - a. Enclosed: Prevents access to underside of platform.
    - b. Operating Switches: Constant pressure.
    - c. Integral Emergency Lighting: Illuminates platform floor and controls.
    - d. Automatic Standby Power: Minimum 5 lift cycles at full load during power outage events.
    - e. Manual Lowering: Gravity lowers platform to lower landing.
    - f. Emergency Stop Button: Lighted, sounds audible alarm.
    - g. Door and Gate interlocks: Electro-mechanical.
    - h. Limit Switches: Upper and lower.
    - i. Slack-Chain Switches: Automatically stop platform if any suspension chain slackens.
    - j. Platform Safeties: Physically prevent platform from lowering if any suspension chain slackens.
    - k. Platform Floor: Low-profile and slip-resistant surface.
    - l. No installation pit or access ramp at the lower landing.
- L. Additional Features
1. Two-Way Communication: Hands-free autodialing phone on platform.
  2. Universal Keys: Limits lift use to authorized persons.
  3. Hollow Landing Package: For anchoring to the floor at the lower landing.

## **PART 3.00 - EXECUTION**

### **3.01 INSPECTION**

- A. Examine the areas and conditions where lift is to be installed and notify NYCHA of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the work.
- B. Verify correct space requirements in accordance with approved manufacturer's drawings. Verify electrical service is of correct type and at correct location.
- C. Do not begin installation until substrates have been properly prepared. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### **3.02 INSTALLATION**

- A. Install lift in accordance with approved submittals, manufacturer's instructions, ASME A18.1 requirements, and applicable regulatory requirements.
- B. Installation space and substrate shall be of sufficient strength to support the loads imposed on it during operation of the lift. Refer to structural loading diagrams provided by manufacturer to ensure proper provision is made.

### **3.03 FIELD QUALITY CONTROL**

- A. Perform acceptance tests as required by code and the authority having jurisdiction. Place rated load on platform and operate for several cycles to verify correct installation and operation. No mechanical failures shall occur and no wear that would affect the reliability of the lift shall be detected.
- B. Protect installed products until completion of project.
- C. Touch-up, repair or replace damaged products before Substantial Completion.

**END OF SECTION 14 42 13**