

Ascension Protégé 5442F Model Series Vertical Wheelchair Lift Product Specifications

SECTION 14420 AND SECTION 14 42 00

PART 1 - GENERAL

1.1 SYSTEM DESCRIPTION

A. The product described herein is an unenclosed, self-contained vertical wheelchair lift, manufactured by Ascension, intended for use by individuals with disabilities. The lift shall require minimal modifications to the using facility. The lift shall consist of a platform supported by an electro-hydraulic lifting mechanism. The lift shall be low profile (no machine tower) to maintain viewing lines. The lift shall provide for independent use by individuals with disabilities and include all applicable operating and safety devices for compliance with ADA requirements. The lift shall have a slim profile platform frame to eliminate the need for a pit or access ramp on the lower landing side and facilitate easy entry into the lift directly at floor level by patrons. The lift shall provide adequate lifting force to raise the platform and occupant to a height suitable for access to most stages, platforms, or similar elevated surfaces.

1.2 REFERENCES

A. The lift shall be designed and tested in accordance with ASME A18.1, ASME A17.5, ADAAG, ANSI A117.1, and NFPA 70 (NEC).

1.3 SUBMITTALS

A. Submit manufacturer's drawings and product data for approval. Drawings shall show dimensional and wiring requirements.

1.4 QUALITY ASSURANCE

A. Manufacturer shall maintain a quality management system certified to ISO 9001.

B. Manufacturer shall have not less than twenty (20) years of experience in the design and manufacture of vertical wheelchair lifts.

C. Lift shall be installed in accordance with all applicable codes.

1.5 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 ninety (90) days on labor, starting from the date of installation.

B. Extended warranty plans are available.

1.6 MAINTENANCE

A. Maintenance of the lift shall consist of regular cleaning as deemed necessary by the using facility. General inspection, maintenance, and lubrication shall be specified in the manufacturer's service manual.

PART 2 - PRODUCT

2.1 MANUFACTURER

A. Ascension Protégé Model 5442F Model Series vertical wheelchair lift, manufactured by Ascension, 3526 E. Fort Lowell Rd., Tucson, AZ, 85716, Tel: 800-459-0400 or 520-881-3993, Fax: 520-881-4983, WebSales@ascension-lift.com.

B. Manufacturer must be a registered U.S.-owned company, with manufacturing operations for this product located in the United States of America.

C. Acceptance of other products is subject to compliance with specified requirements and owner or architect approval.

2.2 PHYSICAL CHARACTERISTICS

A. Lifting capacity: 900 pounds [408 kg].

B. Weight of lift: 850 pounds maximum [386 kg].

C. Vertical speed: five (5) feet per minute [1.5 meters per minute].

D. Vertical travel: 4" [102 mm] to 42" [1067 mm], infinitely adjustable.

E. Standard platform gate configuration: the upper platform gate or upper landing gate shall be left-hinged when facing the lift from the upper landing; the lower platform gate shall be right-hinged when facing the lift from the lower landing.

Contact Ascension for custom platform gate configurations.

2.3 DIMENSIONS

- A. Platform size: 36" x 54" [914 mm x 1372 mm].
- B. Platform size (upper landing gate version): 36" x 58" [914 mm x 1473 mm].
- C. No part of the lift shall stand over 49" [1245 mm] high when the platform is on the ground (except when equipped with optional stage guard).

2.4 MATERIALS

- A. The platform frame, base frame, and lifting device shall be constructed from ASTM A 36, AISI 1018, or AISI 1020 Steel.
- B. The windows shall be fabricated from 1/4" [6 mm] thick high impact strength clear thermoplastic.
- C. The platform sheet metal and under-platform safety pan shall be aluminum alloy.

2.5 FINISH

- A. All metal components shall be thoroughly cleaned to remove any foreign substance. Exposed lift platform metal surfaces shall be finished with an oven-baked powder coating. Exposed base frame metal surfaces shall be hot-dip galvanized.
- B. Standard color is black; contact Ascension for custom color selection.

2.6 DRIVE CONFIGURATION

- A. Drive shall be direct-acting hydraulic.
- B. Both sides of lift platform shall be supported evenly by means of synchronized hydraulic cylinders.
- C. Hydraulic power unit shall be mounted on vibration-isolating supports designed to minimize vibration transmission and reduce frame-borne noise.

2.7 ELECTRICAL REQUIREMENTS

- A. Electrical contractor shall provide a 120VAC, 60 hertz, single phase, 15 amp service line (option: international electrical configurations available).
- B. Motor shall be 1/2 hp, 115V AC single phase (international configurations available).
- C. Control circuits shall be 24 VDC.
- D. Electrical components shall be UL listed and CSA registered.
- E. Electrical system shall be certified to ASME A17.5 by an independent testing laboratory.

2.8 SAFETY DEVICES

The lift shall include the following safety features for protection of the passenger and general public.

- A. Grounded electrical system.
- B. 24 VDC operating controls.
- C. Constant pressure operating switches.
- D. Emergency stop button at passenger control station.
- E. Electro-mechanical interlock to prevent accidental opening of lower platform gate, and if provided, the upper landing gate.
- F. Gate switches to prevent platform movement if either platform gate is open.
- G. Lift platform stop height sensor.
- H. Under-platform safety pan that protects the area under the lift platform.
- I. 48" [1220 mm] high sidewalls and platform gates.
- J. Unobstructed view through transparent sidewalls and platform gates.
- K. Grab bar extending full length of inside wall.
- L. Slip resistant surfaces on platform floor.
- M. Structural safety factors as specified in ASME A18.1.
- N. Self-closing platform gates.
- O. Alarm and lighted alarm switch on platform.
- P. Upper landing gate (where required by code) – Ascension Protégé Model 5442FG.

2.9 OPERATING CHARACTERISTICS

- A. Lift shall include three (3) constant pressure "UP/DOWN" switches, two (2) for remote mounting outside of the platform and one (1) located inside the platform.
- B. The passenger control station shall be provided with a separate "PUSH TO STOP" emergency button. The emergency stop button shall prevent any operation of the lift when actuated.

2.10 COMPRESSION CAPABILITY

A. The lift shall be capable of being compressed to 33" [838 mm] wide to facilitate relocation through a 36" [914 mm] wide doorway. An additional tool kit from Ascension is recommended to facilitate compression of the lift.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify suitability of substrate preparation in accordance with approved manufacturer's drawings.
- B. Verify correct space requirements in accordance with approved manufacturer's drawings.
- C. Verify electrical service is of correct type and at correct location.

3.2 INSTALLATION

- A. Lift shall be installed in accordance with architect's approved plans and specifications, manufacturer's instructions, and ASME A18.1 requirements.
- B. Lift base shall independently support the weight of the entire unit, and shall be anchored to the pad at all four corners underneath the lift car; no part of the lift base frame shall require anchoring to an adjacent wall for structural support.

3.3 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.

NOTE: This specification has been written to assist in preparing a detailed description of a vertical wheelchair lift. Additional technical information may be obtained from Ascension. Specifications are also available electronically at www.ascension-lift.com. Specifications are subject to change.

Patent information is available on the Ascension website: www.ascension-lift.com/patents