

Ascension Model SLA-2050ESD Vertical Portable Wheelchair Lift Side Opening Model Product Specifications

SECTION 14420 AND SECTION 14 42 00

PART 1 - GENERAL

1.1 SYSTEM DESCRIPTION

A. The product described herein, manufactured by Ascension, is a portable lifting device intended for the exclusive use of individuals with disabilities. The lift shall be used only by individuals who are unable to negotiate stairs. The lift shall be self-contained, requiring no additional components or modifications of the using facility. The lift shall consist of a platform supported on an electro-hydraulic lifting mechanism that is attached to a wheeled undercarriage. The lift shall be low profile (no machine tower or shroud) to maintain viewing lines. The lift shall provide for independent use by individuals with disabilities and include a folding access ramp and all applicable operating and safety devices for compliance with ADA requirements. The wheeled undercarriage shall permit easy movement of the unoccupied lift over hard, level surfaces. With the wheels retracted, the lift shall rest firmly on any hard, level surface, and provide a stable base for operation of the lift. 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.

PART 2 - PRODUCT

2.1 MANUFACTURER

A. Ascension Model SLA-2050ESD vertical portable 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, sales@wheelchairlift.com.
B. Acceptance of other products is subject to compliance with specified requirements and owner or architect approval.

2.2 PHYSICAL CHARACTERISTICS

A. Lifting capacity: 750 pounds [341 kg].
B. Weight of lift: 1200 pounds maximum [544 kg].
C. Vertical speed: seven (7) fpm (feet per minute) [2.1 m/min (meters per minute)].
D. Vertical travel: 6" to 50" [178 mm to 1270 mm], infinitely adjustable.
E. The stage platform gate opens to the right when facing the lift from the ramp end of the lift.

2.3 DIMENSIONS

A. Platform size: 39" x 54" [991 mm x 1372 mm] with 42" [1067 mm] high sidewalls and platform gates.
B. Space requirements, operational: 49" [1245 mm] high (in the down position), 132" [3353 mm] long, 50" [1270 mm] wide
C. Space requirements, storage and transport: 49" [1245 mm] high, 66" [1676 mm] long (ramp folded), 47" [1194 mm] wide.
D. Ramp when lowered: 72" [1829 mm] long, 44" [1118 mm] wide, with a 1:12 slope.
E. No part of the lift shall stand over 49" [1245 mm] high when the platform is on the ground.

2.4 MATERIALS

A. The platform, base frame, and lifting device shall be constructed from ASTM A 36, AISI 1018, or AISI 1020 Steel.
B. The ramp shall be constructed of aluminum alloy.
C. The windows shall be fabricated from 1/4" [6.35 mm] thick high impact strength clear thermoplastic.
D. The safety skirt shall be constructed from steel reinforced vinyl-coated polyester.

2.5 FINISH

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

2.6 ELECTRICAL REQUIREMENTS

A. Electric power requirements shall be compatible with 120VAC, 60 hertz, single phase, 15 amp service (option: international electrical configurations available).

- B. The lift shall be supplied with a three prong grounded electrical cord (20' [6.1 m] in length).
- C. The lift shall contain a Ground Fault Circuit Interrupter (GFCI).
- D. The hydraulic pump shall be directly coupled to a capacitor start 1/2 hp motor.
- E. Other than the motor, all control and operating circuits shall be serviced by a 12 VDC solid state linear power supply.
- F. Electrical components shall be UL listed and CSA registered.

2.7 SAFETY DEVICES

The lift shall be constructed to meet the applicable requirements of ADAAG, ASME A17.1-1996 or older (PART XX, SECTION 2000), ASME A18.1-2005 and older, and ANSI A117.1 as they would apply to a portable lifting device. The lift shall include the following safety features for protection of the passenger and general public.

- A. Grounded electrical system.
- B. 12 VDC operating controls.
- C. Key lock control switch.
- D. Constant pressure operating switches.
- E. Emergency stop buttons at all control stations.
- F. Latching platform gates.
- G. Electro-mechanical interlocks to prevent accidental platform gate opening.
- H. Gate switches to prevent platform movement if either platform gate is open.
- I. Upper limit switch.
- J. State sensor box to stop ascent and release stage platform gate interlock at stage elevation.
- K. Toe-guard to automatically stop platform descent if contact occurs.
- L. 42" [1067 mm] high sidewalls and platform gates.
- M. Unobstructed view through transparent sidewalls and platform gates.
- N. Grab bar extending full length of inside wall.
- O. Slip resistant surfaces on platform floor, ramp, and dock plate.
- P. Indicator light to show when platform is level with stage.
- Q. 7:1 structural safety factor.
- R. Floor switch to prevent operation if lift is not completely off its wheels.
- S. Self-closing platform gates.

2.8 PORTABILITY

A. Retractable wheels shall be permanently attached to the undercarriage. The wheels shall be capable of being raised or lowered with common hand tools. When the wheels are lowered and the access ramp folded for storage, the lift shall roll easily over any hard, smooth, level surface. The lift shall be capable of being moved by forklift or truck.

2.9 OPERATING CHARACTERISTICS

- A. The lift shall include a single three (3) position key switch. One key position shall be marked "PASSENGER", one marked "ATTENDANT", and one marked "OFF". The key shall be removable only in the "OFF" position. The key position marked "PASSENGER" shall activate constant pressure "UP/DOWN" switches, located outside of the platform at both ends and inside the platform for the passenger's convenience. The key position marked "ATTENDANT" shall deactivate the passenger "UP/DOWN" switch located inside the platform.
- B. All three (3) switch positions shall be provided with a separate "PUSH TO STOP" emergency button. The emergency stop button shall lock when pushed and require manual reset before operation can resume.
- C. A stage sensor box shall be provided which automatically stops the platform when it reaches stage level. Additionally, the stage sensor box shall automatically activate an electro-mechanical interlock preventing the stage platform gate from being opened when the platform is not at stage level. An indicator light shall be provided inside the platform to show when the platform has stopped at the correct level.
- D. Opening the stage platform gate shall deploy a dock plate that will rest on the adjacent stage surface. The dock plate shall provide a smooth transition between the platform and the stage. Closing the stage platform gate shall retract the dock plate.
- E. The ramp platform gate shall be provided with a mechanical interlock that prevents the platform gate from being opened whenever the platform is more than 1 inch [25.4 mm] above the full down position.

2.10 DISASSEMBLY/REASSEMBLY

A. The lift shall be capable of being disassembled and reassembled on site to facilitate relocation through a 36" [914 mm] wide doorway. Requires the use of an additional apparatus; available from Ascension.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Set up lift for operation as described in manufacturer's operating manual.

3.2 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.

3.3 WARRANTY

A. Manufacturer shall provide a ten (10) year drive train, two (2) year all other parts, one (1) year labor limited warranty.

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

U.S. Patent No. 6,182,798. Other U.S. and foreign patents pending.