

SECTION 14 42 16

WHEELCHAIR LIFTS - VERTICAL, ENCLOSED, PERMANENTLY-INSTALLED

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\*\* NOTE TO SPECIFIER \*\* Ascension®, a division of AGM Container Controls, Inc.; Wheelchair Lifts.
This section is based on the products of Ascension®, a division of AGM Container Controls, Inc., which is located at:
3526 E. Ft. Lowell Rd.
Tucson, AZ 85716
Toll Free Tel: 800-459-0400
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Email:request info (WebSales@ascension-lift.com)
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[Click Here] for additional information.
Ascension has been manufacturing world-class wheelchair lifts for over two decades. Our commitment is to provide premium products and outstanding support to our clients.
Key facets of Ascension lifts are innovative design, distinctive aesthetics, precision manufacturing, and proven reliability for ensuring the safety and dignity of individuals with disabilities.
All Ascension lifts are engineered and manufactured exclusively in Tucson, AZ, USA.

1. GENERAL
	1. SECTION INCLUDES
		1. Vertical enclosed permanently-installed wheelchair lifts. (Clarity 16E, Clarity 16S, Clarity 16D, Clarity 16C).
	2. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 14 42 13 - Inclined Wheelchair Lifts.
		2. Section 26 05 00 - Common Work Results for Electrical.
	1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ADA Accessibility Guidelines for Buildings and Facilities (ADAAG).
		2. ASME A17.5 - Elevator and Escalator Electrical Equipment.
		3. ASME A18.1 - Safety Standard for Platform Lifts and Stairway Chairlifts.
		4. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
		5. NFPA 70 (NEC) - National Electrical Code.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00 - Administrative Requirements.
		2. 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.
		3. Shop Drawings: Drawings shall show dimensional and wiring requirements.
		4. Verification Samples: For each finish product specified, two samples 2 x 3 inches (50 x 75 mm) representing actual product, color, and patterns.
	2. QUALITY ASSURANCE
		1. Manufacturer shall have not less than twenty years of experience in the design and manufacture of vertical wheelchair lifts.
		2. Installer Qualifications: Minimum 2 year experience installing similar products.
	3. PRE-INSTALLATION MEETINGS
		1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
	4. DELIVERY, STORAGE, AND HANDLING
		1. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.
		2. Handle materials to avoid damage.
	5. PROJECT CONDITIONS
		1. 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 recommended limits.
	6. SEQUENCING
		1. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.
	7. WARRANTY

\*\* NOTE TO SPECIFIER \*\* Extended warranty plans are available.

* + 1. Manufacturer shall provide a warranty for a period of ten years on the drive train, four years on all other components, and 90 days on labor, starting from the date of installation.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Ascension®, a division of AGM Container Controls, Inc., which is located at: 3526 E. Ft. Lowell Rd.; Tucson, AZ 85716; Toll Free Tel: 800-459-0400; Tel: 520-881-3993; Fax: 520-881-4983; Email:request info (WebSales@ascension-lift.com); Web:https://ascension-lift.com

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
		2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
	1. VERTICAL PERMANENTLY-INSTALLED WHEELCHAIR LIFTS
		1. Enclosed vertical platform wheelchair lift with self-contained drive system.
			1. For independent use by individuals with disabilities.
			2. ADA Compliance: Includes all applicable operating and safety devices.
			3. Low-Profile Platform Floor: Eliminates need for pit or access ramp at lower landing and facilitates entry into lift platform.

\*\* NOTE TO SPECIFIER \*\* Delete lift product model not required.

* + 1. Lift Product: Clarity 16E. Machine cabinet, transparent runway enclosure, and lifting platform servicing 2 landings, each on opposing sides of the lift.
			1. Machine Cabinet: Installs against uppermost landing serviced providing clear view lines through the transparent runway enclosure on three sides.
			2. Unobstructed View. Transparent panels on 3 sides of enclosure.
			3. Required Installation Space: 48.13 x 67.38 inches (1225 x 1710 mm).
			4. Enclosure Structure: Aluminum alloy.
		2. Lift Product: Clarity 16S. Machine cabinet and lifting platform servicing 2 landings, each on opposing sides of the lift. Installs in a shaft inside a building.
			1. Machine Cabinet: Installs against uppermost landing serviced, minimizing the required clear width.
			2. Required Installation Space: 44.25 x 65.25 inches (1125 x 1660 mm).
		3. Lift Product: Clarity 16D. Machine cabinet, transparent runway enclosure, and lifting platform servicing 2 landings, each on the same side of the lift.
			1. Machine Cabinet: Installs against wall/structure opposing the landings, providing clear view lines through the transparent runway enclosure on three sides.
			2. Unobstructed View. Transparent panels on 3 sides of enclosure.
			3. Required Installation Space: 48.13 x 67.75 inches (1225 x 1720 mm).
			4. Enclosure Structure: Aluminum alloy.
		4. Lift Product: Clarity 16C. Machine cabinet and lifting platform servicing 2 landings each on the same side of the lift. Installs in a shaft inside a building.
			1. Machine Cabinet: Installs against the wall/structure opposing the landings, minimizing the required clear width.
			2. Required Installation Space: 44.25 x 65.25 inches (1125 x 1660 mm).
		5. Physical Characteristics:
			1. Platform Size: 36 x 56 inches (914 x 1422 mm).
			2. Lifting capacity: 750 lbs (340 kg).
			3. Vertical Speed: 20 fpm (6 mpm).
			4. Vertical Travel: 34 to 168 inches (865 to 4265 mm).
		6. Doors and Gates:

\*\* NOTE TO SPECIFIER \*\* The lower landing must have a door. The upper landing must have a door or a partial-height gate. Delete the upper landing door or gate option not required. Delete operation options not required.

* + - 1. Lower Landing Door:
				1. Manual Operation: Left handed. Self-closing.
				2. Manual Operation: Right handed. Self-closing.
				3. Automatic Operation: Left handed.
				4. Automatic Operation: Right handed.
			2. Upper Landing Door:
				1. Manual Operation: Left handed. Self-closing.
				2. Manual Operation: Right handed. Self-closing.
				3. Automatic Operation: Left handed.
				4. Automatic Operation: Right handed.
			3. Upper Landing Gate:
				1. Manual Operation: Left handed. Self-closing.
				2. Manual Operation: Right handed. Self-closing.
				3. Automatic Operation: Left handed.
				4. Automatic Operation: Right handed.
		1. 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.
			5. Windows: 1/4 inch (6 mm) thick high impact strength clear thermoplastic.
		2. Finishes:
			1. Grab Bar and Accent Rails: Brushed stainless steel.
			2. Exposed Metal Surfaces: Powder coat.

\*\* NOTE TO SPECIFIER \*\* Contact Ascension for custom color selection. Delete color option not required.

* + - * 1. Color: Silver Metallic.
				2. Color: \_\_\_\_\_\_\_\_.
		1. 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.
		2. Electrical Requirements:

\*\* NOTE TO SPECIFIER \*\* International electrical configurations available.

* + - 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.
		1. 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.
				1. Enclosed: Prevents access to underside of platform.
				2. Operating Switches: Constant pressure.
				3. Integral Emergency Lighting: Illuminates platform floor and controls.
				4. Automatic Standby Power: Minimum 5 lift cycles at full load during power outage events.
				5. Manual Lowering: Gravity lowers platform to lower landing.
				6. Emergency Stop Button: Lighted, sounds audible alarm.
				7. Door and Gate interlocks: Electro-mechanical.
				8. Limit Switches: Upper and lower.
				9. Slack-Chain Switches: Automatically stop platform if any suspension chain slackens.
				10. Platform Safeties: Physically prevent platform from lowering if any suspension chain slackens.
				11. Platform Floor: Low-profile and slip-resistant surface.
				12. No installation pit or access ramp at the lower landing.

\*\* NOTE TO SPECIFIER \*\* Delete add-ons not required or delete the article if no add-ons are required.

* 1. ADD-ONS
		1. Two-Way Communication: Hands-free autodialing phone on platform.
		2. Universal Keys: Limits lift use to authorized persons.
		3. Dome and Ventilation: Covers top of enclosure.
		4. Hollow Landing Package: For anchoring to the floor at the lower landing.
			1. Rear Fascia: Prevents access to back of machine cabinet where not covered by vertical landing face.
1. EXECUTION
	1. EXAMINATION
		1. Verify suitability of substrate preparation in accordance with approved manufacturer's drawings.
		2. Verify correct space requirements in accordance with approved manufacturer's drawings. Verify electrical service is of correct type and at correct location.
		3. 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.
	2. PREPARATION
		1. Clean surfaces thoroughly prior to installation.
		2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
	3. INSTALLATION
		1. Install lift in accordance with approved submittals, manufacturer's instructions, ASME A18.1 requirements, and applicable regulatory requirements.
		2. 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.
	4. FIELD QUALITY CONTROL
		1. 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.
	5. PROTECTION
		1. Protect installed products until completion of project.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION