SECTION 14 42 00

VERTICAL WHEELCHAIR LIFTS AND STAIRCASE COMBINATIONS

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\*\* NOTE TO SPECIFIER \*\* Liftup North America Inc.; stairlifts, platforms and lifting aids.
This section is based on the products of Liftup North America Inc., which is located at:5626 56th Commerce Park Blvd.Tampa, FL 33610Toll Free Tel: 844-543-8878Email: [request info (info@liftup.us)](https://arcat.com/rfi?action=email&company=Liftup%252BNorth%252BAmerica%252BInc.&message=RE%253A%2520Spec%2520Question%2520(14420lna)%253A%2520&coid=53994&spec=14420lna&rep=&fax=)
Web: <https://www.liftup.dk/us>
 [ [Click Here](https://arcat.com/company/liftup-north-america-inc-53994) ] for additional information.
At Liftup North America, Inc. we are passionate about helping people with disabilities, the elderly and wheelchair users, to enjoy the best possible quality of life by removing the limitations of restricted movement and reduced mobility. We achieve this by marketing lifts and rehabilitation equipment to assist with their movement, thereby helping them to move around more freely. Very few places are equally user-friendly for all people, but by using Liftup Inc.'s products and solutions a real difference can be made to help everybody to move about your home, business, or public spaces more easily.
Improved mobility gives independence and a better quality of life and reduces reliance on others. With Liftup Inc.'s lifts and access aids, people can be more self-sufficient, and patients can enjoy quicker recovery.
Liftup North America, Inc. was established in January 2017, focusing on promoting and marketing welfare technology products in accessibility (access) and health (care) in North America.
Liftup North America, Inc. is a subsidiary of the Danish parent corporation Liftup A/S based in Stoevring, Denmark. Liftup A/S is the manufacturing company for the products that Liftup Inc. markets.

1. GENERAL
	1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Combination staircase and wheelchair lift.
		2. Vertical wheelchair Lift.
	1. RELATED SECTIONS

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

* + 1. Section 06 10 00 - Rough Carpentry.
		2. Section 26 05 00 - Common Work Results for Electrical.
		3. Section 26 31 00 - Photovoltaic Collectors.
	1. REFERENCES

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

* + 1. American Society of Mechanical Engineers (ASME):
			1. ASME 18.1 - Safety Standard for Platform Lifts and Stairway Chairlifts
		2. Australian Standards (AS):
			1. AS/NZS 2772.2 - Radiofrequency fields Principles and methods of measurement and computation - 3 kHz to 300 GHz.
			2. AS/NZS 4268 - Radio equipment and systems - Short range devices - Limits and methods of measurement.
		3. Code of Federal Regulations (CFR).
		4. Danish Standards (DS).
			1. DS/EN 62479 - Assessment Of The Compliance Of Low Power Electronic And Electrical Equipment With The Basic Restrictions Related To Human Exposure To Electromagnetic Fields (10 MHz To 300 GHz)
			2. DS/EN 300 440 - Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonized Standard for access to radio spectrum.
			3. DS/EN 301489 - ElectroMagnetic Compatibility (EMC) standard for radio equipment and services.
				1. Part 1: Common technical requirements; Harmonized Standard for ElectroMagnetic Compatibility
				2. Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonized Standard for ElectroMagnetic Compatibility
		5. European Standards (EN).
		6. Federal Communications Commission (FCC):
			1. FCC CFR 47 - Telecommunications.
				1. Part 15 - Radio Frequency Devices.
		7. New Zealand Standards (NZS).
		8. Radio Equipment Directive (RED): EU 2014/53/EU.
	1. SUBMITTALS
		1. Submit under provisions of Section 01 30 00.
		2. Product Data: Manufacturer's data sheets on each product to be used, including:
			1. Submit manufacturer's installation instructions, including preparation, storage, and handling requirements.
			2. Include complete description of performance and operating characteristics.
			3. Show maximum and average power demands.
		3. Shop Drawings:
			1. Show typical details of assembly, erection, and anchorage.
			2. Include wiring diagrams for power, control, and signal systems.
			3. Show complete layout and location of equipment, including required clearances and coordination with shaftway.
	2. QUALITY ASSURANCE
		1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum of five years documented experience.
		2. Installer Qualifications: Installer Qualifications: Licensed to install equipment of this scope, with evidence of experience with specified equipment. Installer shall maintain an adequate stock of replacement parts, have qualified people available to ensure fulfillment of maintenance and callback service without unreasonable loss of time in reaching project site.
	3. REGULATORY REQUIREMENTS

\*\* NOTE TO SPECIFIER \*\* Verify local regulatory requirements. Delete one of the two following paragraphs as required to suit local requirements. First paragraph is for installations in the United States as applicable. Second paragraph is for installations in Canada as applicable.

* + 1. Provide platform lifts in compliance with:
			1. ASME A18.1 - Safety Standard for Platform Lifts and Stairway Chairlifts.
			2. NFPA 70 - National Electric Code.
		2. Provide platform lifts in compliance with:
			1. CSA B355 - Lifts for Persons with Physical Disabilities.
			2. CSA B44.1 - National Electric Code.
	1. PRE-INSTALLATION CONFERENCE
		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.
	2. DELIVERY, STORAGE, AND HANDLING
		1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
			1. Do not try to move the lift manually, as this can lead to personal injury. The product should be moved and handled using suitable lifting equipment (pallet-truck, roller plate, or similar).
			2. Do not subject the lift to severe knocks/blows as these can affect functionality.
		2. Protect from damage due to weather, excessive temperature, and construction operations.
			1. Keep the associated remote control (optional equipment) dry and do not subject it to severe blows. Cleaning may only be performed using a well-wrung cloth.
	3. 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.
		2. Do not use wheelchair lift for hoisting materials or personnel during construction period.
	4. WARRANTY
		1. Manufacturer's standard limited warranty unless indicated otherwise.
1. PRODUCTS
	1. MANUFACTURERS
		1. Acceptable Manufacturer: Liftup North America Inc., which is located at:5626 56th Commerce Park Blvd.Tampa, FL 33610Toll Free Tel: 844-543-8878Email: [request info (info@liftup.us)](https://arcat.com/rfi?action=email&company=Liftup%252BNorth%252BAmerica%252BInc.&message=RE%253A%2520Spec%2520Question%2520(14420lna)%253A%2520&coid=53994&spec=14420lna&rep=&fax=);Web: <https://www.liftup.dk/us>
		2. Acceptable Manufacturer: Denmark: Liftup A/S, Hagensvej 21, DK-9530 Stoevring, Denmark. Phone: +45 9686 3020. Website: www.liftup.dk. North America: Liftup North

 \*\* 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 the provisions of Section 01 60 00.
	1. UNENCLOSED COMBINATION STAIRS AND VERTICAL WHEELCHAIR LIFT
		1. Basis of Design: FlexStep V2 Wheelchair Lift as manufactured by Liftup North America. A 2-in-1 solution provides you with an ordinary staircase and a sophisticated wheelchair lift. For transferring wheelchairs or disabled people between 2 levels. After the transfer, the product in most cases automatically returns into the staircase position.
			1. A qualified Liftup service technician must undertake setup and installation, so as to ensure correct assembly.
		2. Regulatory Approvals:
			1. Radio Module: FCC Part 15.249. Industry Canada Requirements: RSS-GEN, RSS-210.
				1. Operational Conditions:

Device does not cause harmful interference.

Device accepts any interference received, including interference that may cause undesired operation.

* + - 1. ASME 18.1 (US/FDA): Safety Standard for Platform lifts and Stairway Chairlifts, section 5 "Private Residence Platform Lifts".

\*\* NOTE TO SPECIFIER \*\* Consult your reseller for further information about any compliance concerns.

* + - * 1. Not all possible configurations are in compliance.
			1. Radio Components: Comply with the following regulations and standards.
				1. EU 2014/53/EU, Radio Equipment Directive (RED).
				2. FCC (USA) CFR 47 Part 15.
				3. DS/EN 62479:2010 Assessment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz).
				4. DS/EN 300 440, v2.1.1 Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; (Electromagnetic compatibility and Radio spectrum Matters Draft).
				5. DS/EN 301489-1, v2.2.0 ElectroMagnetic Compatibility (EMC) standard for radio equipment and services, Draft.
				6. DS/EN301489-17, v3.2.0 ElectroMagnetic Compatibility (EMC) standard for radio equipment and services.
				7. AS/NZS 4268 Radio Equipment and Systems - Short Range devices.
				8. AS/NZS 2772.2 Radio Frequency Fields (mean power, Less than 1 mW)
		1. Performance and Design Requirements:
			1. Capacity: 881.8 lbs. (400 kg) rated capacity.
			2. Maximum Lifting Height: 49.2 inches (1250 mm).
				1. Lifting height is to be specified prior to production.

\*\* NOTE TO SPECIFIER \*\* Delete height options not required.

* + - * 1. Platform Lifting Height: \_\_\_ inches (\_\_\_ mm).
				2. Platform Lifting Height: As detailed on the Drawings.
				3. Stairs Height: \_\_\_ inches (\_\_\_ mm).
				4. Stairs Height: As detailed on the Drawings.
			1. Platform Configuration: Straight Through Entry/Exit: Front and rear openings.
			2. Lower Landing Openings: Roll off barrier.
			3. Upper Landing Openings: Automatic vertical gate.
			4. Door and Gates: Self closing.
				1. Gate Height: Flush mount, 43-5/16 inches (1100 mm).
			5. Power Door/Gate Operator: Automatically opens the door/gate when platform arrives at a landing. Will also open at landing by pressing call button.
				1. ADA Compliant and obstruction sensitive.
				2. Power Requirements: Low voltage, 24 VDC. Concealed wiring.
				3. Location:

Lower Landing: Barrier.

Upper Landing: Gate.

* + 1. Lift Components:
			1. Base Frame: Structural steel or aluminum.
			2. Platform Side Wall Panels: Extruded aluminum balustrades.
				1. Handrails: Solid wood, 1-9/16 inches (40 mm) diameter.
			3. Platform Access Ramp: Automatic folding.
				1. Material: 12 gauge (2.5 mm) galvanized steel plates; slip resistant surfaces.
		2. Base Mount:
			1. FlexStep is fixed to the upper landing fascia wall with guide rails, aka. wall profiles. They are to be fixed to the wall with appropriate screws.
				1. Fascia Wall: Requires solid material such as brick, block, concrete or solid wood located at a distance appropriate to the platform width.
		3. Actuator Drive: Four independent and synchronized actuators based on the screw principle.
			1. Safety Devices: Integral actuator redundancy.
			2. Travel Speed: 7.9 fpm (3.0 m per min).
				1. Motors: TBC. Each actuator is independently powered.
			3. Power Supply: 110/120 Vac, 50 Hz, 1.1 Amp. Max Watts: 90. Standby: Less than 6 Watts. Converted to 24 VDC.
			4. Power Supply: 208/240 V, 50 Hz, 1.1 Amp. Max Watts: 90. Standby: Less than 6 Watts. Converted to 24 VDC.

\*\* NOTE TO SPECIFIER \*\* Battery powered emergency lowering is optional. Delete if not required.

* + - 1. Battery Powered Backup Emergency Lowering Operation: Four Li-Ion batteries to power the lift during power failure.
				1. Operating temperature -13 to 130 degrees F (-25 to 54 degrees C).
				2. Operation Capacity: Minimum 30 cycles at 77 degrees F (25 degrees C).
				3. Fully Charged: 5 hours.
				4. Flat Battery: 10 min. Charge: 1 trip.
		1. Wireless Platform Controls: 24 VDC control circuit with the following features.
			1. Direction Control: Constant pressure buttons.
			2. Emergency Stop Switch: Shuts off power and stops all operation.

\*\* NOTE TO SPECIFIER \*\* Alarm button is optional. Delete options not required.

* + - 1. Alarm Button: Added to the on-board operating panel.
				1. Pressing button activates a voltage free relay output for an external alarm (lamp, siren, etc.)
				2. Connection: To an external alarm.

To Activate Alarm: Press and hold button for 5 seconds.

* + - * 1. Connection: To an intercom system. Allows user to contact external assistance in an emergency.

To Activate Alarm: Press and hold button for 5 seconds.

\*\* NOTE TO SPECIFIER \*\* Delete operation option not required. Wireless operation is standard.

* + - 1. Operation: Wireless.
			2. Operation: Wired.
			3. Internal Receiver: 2.4 GHz Short Range. FCC ID: 2AK8H-MODULE1.
				1. Receiver Class : 3.
				2. Dimensions (L x W x H): 2.83 x 1.30 x 0.40 inches (72 x 33 x 10 mm).
				3. Weight: 0.02 lbs (10 grams).
				4. Frequencies: 2.410 GHz, 2.435GHz, and 2.460GHz.
				5. Duty Cycle: Less than 1 percent (only TX for pairing remotes).
				6. Power: Less than 0.6 mW controlled environment.
				7. Supply: 5.6 Volt 30 mA.
				8. Water and Dust: IP 54. Shall be mounted inside Liftup products.
				9. Working Temperature: 41 to 104 degrees F (5 to 40 degrees C).
				10. Storage Temperature: 13 to 158 degrees F (-25 to 70 degrees C).
				11. Expected Service Life: Greater than 5 years.

\*\* NOTE TO SPECIFIER \*\* Delete if not required. Emergency phone may be required by local jurisdiction.

* + 1. Wireless Call Station Controls: 3.0 VDC control circuit with the following features.
			1. Direction Control: Constant pressure rocker switch.

\*\* NOTE TO SPECIFIER \*\* Delete operation option not required. Keyless operation is standard.

* + - 1. Operation: Keyless.
			2. Operation: Keyed.
			3. Call Station Mounting:

\*\* NOTE TO SPECIFIER \*\* Delete mounting options not required. Lower level column mounting should not be used at landing with ramp or where a power door operator is used.

* + - * 1. Lower Level: Wall mounted surface.
				2. Lower Level: Column mounted.
				3. Upper Level: Wall mounted surface.
			1. 2.4 GHZ Short Range Device. FCC ID: 2AK8H-REMOTE2.
				1. Receiver Class: 3.
				2. Dimensions (L x W x H): 6.70 x 2.83 x 1.65 inches (170 x 72 x 42 mm).
				3. Weight: 0.4 to 0.47 lbs.(180 to 215 grams).
				4. Frequencies: 2.410 GHz, 2.435 GHz, and 2.460 GHz.
				5. Duty cycle: Less than 1 percent.
				6. Power: Less than 0.6 mW controlled environment. Hold to run.
				7. Battery: 3 Volt CR2032.
				8. Water and Dust: IP 54.
				9. Working Temperature: 41 to 104 degrees F (5 to 40 degrees C).
				10. Storage Temperature: 3 to 158 degrees F (-25 to 70 degrees C).
				11. Expected Service Life: Greater than 5 years/

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Handheld Wireless Remote Control: REMOTE1.
			1. 2.4 GHz Short Range devices. FCC ID: 2AK8H-REMOTE1.
			2. Receiver Class: 3.
			3. Dimensions (L x W x H): 3.79 x 1.85 x 0.95 inches (96 x 47 x 24 mm).
			4. Weight: 0.11 lbs (48 grams).
			5. Frequencies: 2.410GHz, 2.435GHz, and 2.460GHz.
			6. Duty cycle: Less than 1 percent.
			7. Power: Less than 0.6 mW controlled environment. Hold to run.
			8. Battery: 3 Volt CR2032.
			9. Water and dust: IP 42.
			10. Working temperature: 41 to 104 degrees F (5 to 40 degrees C).
			11. Storage temperature: 13 to 158 degrees F (-25 to 70 degrees C).
			12. Expected service life: Greater than 5 years.
		2. Safety Devices and Features:
			1. Power Supply: Electrical system is class2 and class ll. Very low voltage and double insulated. Grounding is not required
			2. Limit Switches: Upper, lower, and final.
			3. Tamper Resistant Electrical: The door is in the closed position and the lock is engaged before lift can move from landing.
			4. Electrical disconnect and emergency button shall shut off power to the lift.
			5. Anti-Crushing:
				1. Beneath Entire Lift: Pressure plates (anti-crushing) are to be fitted which activate if an object is going to be crushed below.

When Activated: The lift stops, then runs approx. 0.79 inches (2 cm) upward. At the same time an audible alarm is issued.

If Anti-Crushing Feature is Activated:

Release the operating button.

Remove objects under the lift.

If needed, run the lift upwards to easily remove objects underneath the lift.

Then the lift may be run to the "lower landing" or "staircase" states.

* + - 1. Infrared Anti-Crushing Sensors:
				1. Positioned in the side frames off the edges of each step and protected by removable covers.
				2. If sensors are disrupted when the lift moves from staircase to platform or the reverse, movement will stop, and an audible alarm will sound.
			2. Safety Barriers:
				1. Ramp as Roll-Off Protection.

Prior to Ascending: Ramp will pull up and lock before the lift will move.

When Lift Returns to Floor: Ramp will lower (keep the button pressed).

\*\* NOTE TO SPECIFIER \*\* Doors are optional. Automatic door locks are also optional. Delete doors if not required or delete automatic door locks if not required.

* + - * 1. Doors as Roll-Off Protection:

Doors will close before the lift will move.

Doors will always be closed when lift has moved off ground level.

Automatic Door Locks: Ensure doors are locked before the lift moves.

\*\* NOTE TO SPECIFIER \*\* Vertical Safety Barrier is optional. Delete if not required.

* + - 1. Vertical Safety Barrier at Upper Level:
				1. If the lift is fitted with a vertical safety barrier at the upper level, it will close before the lift begins to move. The vertical safety barrier will always be closed when the lift is not at the upper level.

\*\* NOTE TO SPECIFIER \*\* Lift is not available for public use in all countries. Contact Manufacturer for more detailed information. Delete either the alarm signal or the two-way communication system, whichever is not required.

* + - 1. Lifts Accessible to the Public:
				1. Equipped with a key switch, ensuring lift can be locked into stair configuration when left unobserved.

Key Switch: Prevents lift transforming from stairs to lift.

* + - * 1. Alarm Signal to Call for Help: If lift is not under observation or locked, but the owner (or his representative) is present, close to the building, it can be equipped with an alarm signal.

Alarm Signal: Must be connected to an external alarm device (e.g., light, sound or similar) to draw attention to the need for assistance.

* + - * 1. Two-Way Communication System: Must be installed if the lift is installed such that an alarm signal is insufficient (e. g. freely accessible without observation).

Must be connected to a telephone number which is in operation at any time when the lift is accessible.

* + - 1. Emergency Lighting: For power failure or control system power gets disconnected.
				1. System automatically switches to backup mode.

System will continue to work, while powered by a backup battery.

Illuminations on the operating panel will still be lit.

* + - 1. Functionality:
				1. Buttons must be pressed and held for the entire lift motion.
				2. Users call the lift by pressing one of the buttons on the wall, or the optional associated remote control.
				3. When the user is on the platform it is operated by means of a side panel, from which the user can choose between moving to the top or bottom level.
		1. Finishes:
			1. Aluminum Extrusions: Electrostatically applied baked powder finish Fine Textured Sable Grey (RAL 7022).
			2. Ferrous Components: Electrostatically applied baked powder finish.
				1. Lift Finish: Baked powder coat finish.

`\*\* NOTE TO SPECIFIER \*\* Any RAL color is available upon request. . Contact the manufacturer for more information.

* + - * 1. Color: Fine Textured Sable Grey (RAL 7022).
				2. Color: As determined by the Architect.
				3. Color: \_\_\_\_\_\_\_\_.
		1. Models:

\*\* NOTE TO SPECIFIER \*\* Delete model options not required.

* + - 1. Steps: 2 + 1. Travels from 9.4 to 14.6 inches (239 to 371 mm). Built with a short lower step and extra-long upper step. Platform Length: 34.8 inches (885 mm) when used as wheelchair lift.
			2. Steps: 2 + 2. Travels from 9.4 to 14.6 inches (239 to 371 mm). Built with a short lower step and extra-long upper step. Platform Length: 47.2 inches (1200 mm) when used as wheelchair lift.

\*\* NOTE TO SPECIFIER \*\* The general attributes apply to both model options above. Delete width options not required.

* + - 1. General Attributes:
				1. Length (stairs): 55.5 to 52.9 inches (1409 to 1344 mm).
				2. Inside step width: 27.6 inches (701 mm).
				3. Inside step width: 31.5 inches (800 mm).
				4. Inside step width: 35.4 inches (899 mm).
				5. Inside step width: 39.4 inches (1000mm).
				6. Min. Inst. Width: 39.4 inches (1000 mm).
				7. Min. Inst. Width: 43.3 inches (1100 mm).
				8. Min. Inst. Width: 47.2 inches (1200 mm).
				9. Min. Inst. Width: 51.2 inches (1300 mm).
				10. Lifting capacity: 881.8 lbs. (400 kg) per 2 pers.
				11. Lifting speed: 7.9 ft per min (0.04m/sec)
				12. Duty cycle: 2 cycles per 5 min.
				13. Noise: Less than 70 dB.
				14. Weight: 252 to 331 lbs. (114 to 150 kg).

\*\* NOTE TO SPECIFIER \*\* Delete steps options not required.

* + - 1. Steps: 3.
			2. Steps: 3-SHORT: Fitted with 36 inch (914 mm) platform length. For installation in areas with no room for a lift, Recommended for domestic use only.
			3. Steps: 3+1: Platform Length: of 49.2 inches (1250 mm). For public access in most places.

\*\* NOTE TO SPECIFIER \*\* The general attributes apply to the two model options above. Delete height and width options not required.

* + - 1. General Attributes:
				1. Travels from 14.2 to 29.1 inches (360 to 740 mm).
				2. Lifting height: 1 stop: 14.2 to 21.8 inches (360 to 554 mm).
				3. Lifting height: 2 stop: 18.9 to 29.1 inches (480 to 740 mm).
				4. Length (stairs): 45.1 to 50.6 inches (1145 to 1285 mm).
				5. Inside step width: 27.6 inches (701 mm).
				6. Inside step width: 31.5 inches (800 mm).
				7. Inside step width: 35.4 inches (899 mm).
				8. Inside step width: 39.4 inches (1000 mm).
				9. Min. Inst. Width: 39.4 inches (1000 mm).
				10. Min. Inst. Width: 43.3 inches (1100 mm).
				11. Min. Inst. Width: 47.2 inches (1200 mm).
				12. Min. Inst. Width: 51.2 inches (1300 mm).
				13. Lifting capacity: 881.8 lbs. (400 kg). per 2 pers.
				14. Lifting speed: 7.9 ft per min (0.04m/sec).
				15. Duty cycle: 2 cycles per 5 min.
				16. Noise: Less than 70 dB.
				17. Weight: 267 to 335 lbs. (121 to 152 kg).

\*\* NOTE TO SPECIFIER \*\* Delete steps options not required.

* + - 1. Steps: 4. Travel Height: 18.9 to 36.4 inches (925 mm). Platform Length: 48 inches (1219 mm). For travel higher than 29.1 inches (740 mm) requires a space saving "2-stop point" feature where the upper step on the FlexStep staircase is lower than the upper threshold and the threshold is actually step No. 5 on the staircase
			2. Steps: 4+1. Travel Height: 18.9 to 29.1 inches (925 mm). Platform length of 58.9 inches (1496 mm)..

\*\* NOTE TO SPECIFIER \*\* The general attributes apply to both model options above. Delete height width and fixed staircase options not required.

* + - 1. General Attributes:
				1. Lifting height: 1 stop: 18.9 to 29.1 inches (480 to 740mm).
				2. Lifting height : 2 stop: 23.6 to 36.4 inches (600 to 925 mm).
				3. Length (stairs): 47.8 to 58.9 inches (1215 to 1495 mm).
				4. Inside step width: 27.6 inches (701 mm).
				5. Inside step width: 31.5 inches (800 mm).
				6. Inside step width: 35.4 inches (899 mm).
				7. Inside step width: 39.4 inches (1000 mm).
				8. Min. Inst. Width: 39.4 inches (1000 mm).
				9. Min. Inst. Width: 43.3 inches (1100 mm).
				10. Min. Inst. Width: 47.2 inches (1200 mm).
				11. Min. Inst. Width: 51.2 inches (1300 mm).
				12. Lifting capacity: 881.8 lbs (400 kg). per 2 pers.
				13. Lifting speed: 7.9 ft (2408 mm) per min.
				14. Duty cycle: 2 cycles per 5 min.
				15. Noise: Less than 70 dB.
				16. Weight: 304 to 403 lbs (138 to 183 kg).
				17. Fixed Staircase: Left hand side.
				18. Fixed Staircase: Right hand side.
				19. Fixed Staircase Width: \_\_\_ inches (\_\_\_ mm).
			2. Steps 5: Travel Height: To 43.7 inches (1110 mm). Platform length of 60 inches (1524 mm). For travel higher than 36.4 inches (925 mm) requires a space saving "2-stop point" feature where the upper step on the FlexStep staircase is lower than the upper threshold and the threshold is step no. 6 on the staircase.

\*\* NOTE TO SPECIFIER \*\* Delete height and width options not required.

* + - * 1. Lifting height: 1 stop: 23.6 to 36.4 inches (600 to 925 mm).
				2. Lifting height : 2 stop: 28.3 to 43.7 inches (720 to 1110 mm).
				3. Length (stairs): 61 inches (1549 mm).
				4. Length (up): 61 inches (1549 mm).
				5. Length (platform down): 66.3 inches (1684 mm).
				6. Inside step width: 27.6 inches (701 mm).
				7. Inside step width: 31.5 inches (800 mm).
				8. Inside step width: 35.4 inches (899 mm).
				9. Inside step width: 39.4 inches (1000 mm).
				10. Min. Inst. Width: 39.4 inches (1000 mm).
				11. Min. Inst. Width: 43.3 inches (1100 mm).
				12. Min. Inst. Width: 47.2 inches (1200 mm).
				13. Min. Inst. Width: 51.2 inches (1300 mm).
				14. Lifting capacity: 881.8 lbs (400 kg). per 2 pers.
				15. Lifting speed: 7.9 ft (2408 mm) per min.
				16. Duty cycle: 2 cycles per 5 min.
				17. Noise: Less than 70 dB.
				18. Weight: 368-403 lbs (167 to 183 kg).
			1. Steps: 6: Travel Height: To 49.2 inches (1250 mm). Platform length of 72 inches (1829 mm). For travel higher than 43.7 inches (1110 mm) requires a space saving "2-stop point" feature where the upper step on the FlexStep staircase is lower than the upper threshold and the threshold is step no. 7 on the staircase.

\*\* NOTE TO SPECIFIER \*\* Delete height and width options not required.

* + - * 1. Lifting height: 1 stop: 28.3 to 43.7 inches (719 to 1110 mm).
				2. Lifting height : 2 stop: 33.0 to 49.2 inches (828 to 1250 mm)
				3. Length (stairs): 62.7 inches (1593 mm).
				4. Length (up): 72.2 inches (18.34 mm)
				5. Length (platform down): 783 inches (19888 mm).
				6. Inside step width: 27.6 inches (701 mm).
				7. Inside step width: 31.5 inches (800 mm).
				8. Inside step width: 35.4 inches (899 mm).
				9. Inside step width: 39.4 inches (239 mm).
				10. Min. Inst. Width: 39.4 inches (239 mm).
				11. Min. Inst. Width: 43.3 inches (1100 mm).
				12. Min. Inst. Width: 47.2 inches (1200 mm).
				13. Min. Inst. Width: 51.2 inches (1300 mm).
				14. Lifting capacity: 881.8 lbs (400 kg). per 2 pers.
				15. Lifting speed: 7.9 ft (2408 mm) per min.
				16. Duty cycle: 2 cycles per 5 min.
				17. Noise: Less than 70 dB.
				18. Weight: 368-403 lbs (167 to 183 kg).
		1. Step Inserts:

\*\* NOTE TO SPECIFIER \*\* Delete wood type options not required.

* + - 1. Wood Type: Ash.
			2. Wood Type: Beech.
			3. Wood Type: Cherry.
			4. Wood Type: Mahogany.
			5. Wood Type: Oak.
			6. Wood Type: Pine.
			7. Wood Type: Walnut.
			8. Wood Type: Plywood (indoor only). Used as base for vinyl or carpet inserts.

\*\* NOTE TO SPECIFIER \*\* Delete material option not required.

* + - * 1. Metal Plate: Aluminum Checker plate.
				2. Metal Plate: Aluminum plate. Used as base for tiles
				3. Custom inserts (emply): \_\_\_\_\_\_\_. Drawings available for custom wood inserts.

\*\* NOTE TO SPECIFIER \*\* Delete handrails options not required or delete entire paragraph if handrails are not required.

* + 1. Handrails:

\*\* NOTE TO SPECIFIER \*\* Delete hand bar type not required. Then delete material options not required.

* + - 1. Flat Hand Bar: 0.4 x 1.57 inches (10 x 40 mm).
				1. Metal. Flat Hand Bar.

\*\* NOTE TO SPECIFIER \*\* Delete stainless steel option not required.

* + - * 1. Stainless steel.
				2. Stainless steel. Painted.
			1. Round Hand Bar:

\*\* NOTE TO SPECIFIER \*\* Delete material options not required.

* + - * 1. Brass.
				2. Metal. Painted.
				3. Stainless steel.
				4. Stainless steel. Painted.
				5. Wood Type: Ash.
				6. Wood Type: Beech.
				7. Wood Type: Cherry.
				8. Wood Type: Mahogany.
				9. Wood Type: Oak.
				10. Wood Type: Pine.
				11. Wood Type: Walnut.

\*\* NOTE TO SPECIFIER \*\* Delete balustrade option not required.

* + - 1. Balustrade Type: Round (indoor only).
			2. Balustrade Type: Square.
		1. Top Landing Safety Options:

\*\* NOTE TO SPECIFIER \*\* Delete safety options not required.

* + - 1. No Safety option
			2. Vertical Barrier
			3. Automatic door: Left swing.
			4. Automatic door: Right swing.
		1. Door Panel Material:

\*\* NOTE TO SPECIFIER \*\* Delete material option not required.

* + - 1. Polycarbonate panel, clear.
			2. Polycarbonate panel, smoke.
			3. Aluminum panel, (painted).

\*\* NOTE TO SPECIFIER \*\* Onboard safety is optional. Delete if not required. The Automatic onboard barrier is also optional. Delete if not required.

* + 1. Onboard Safety: Active safety ramp.
			1. Automatic onboard barrier.

\*\* NOTE TO SPECIFIER \*\* Delete article if not required.

* 1. VERTICAL WHEELCHAIR LIFT
		1. Basis of Design: EasyLift V3 PLUS. Provide smooth access between two levels for wheelchair users and individuals with mobility challenges. A versatile solution suitable for both indoor and outdoor use, ensuring accessibility in areas with a height difference of up to 49.2 inches (1250 mm).
			1. Approval: CE marking 2006/42/EC (Machinery Directive).
			2. Noise: Less than 70 dB
			3. Lifting Capacity: 881.8 lbs(400 kg) per 2 people.
			4. Lifting Height: 2.76 to 49.2 inches (70 to 1250 mm).
			5. Lifting Speed: 2 inches (51 mm) per second
			6. Duty Cycle: 2 minutes of operation every 5 minutes.
			7. Pit Depth: 2.76 inches (70 mm). Pit optional.
			8. Weight: 440.92 to 551.15 lbs (200 to 250 kg)
		2. Regulatory Approvals:
			1. Radio Module: FCC Part 15.249. Industry Canada Requirements: RSS-GEN, RSS-210.
				1. Operational Conditions:

Device does not cause harmful interference.

Device accepts any interference received, including interference that may cause undesired operation.

* + - 1. ASME 18.1 (US/FDA): Safety Standard for Platform lifts and Stairway Chairlifts, section 5 "Private Residence Platform Lifts".

\*\* NOTE TO SPECIFIER \*\* Consult your reseller for further information about any compliance concerns.

* + - * 1. Not all possible configurations are in compliance.
			1. Radio Components: Comply with the following regulations and standards:
				1. EU 2014/53/EU, Radio Equipment Directive (RED).
				2. FCC (USA) CFR 47 Part 15.
				3. DS/EN 62479:2010 Assessment of the compliance of low-power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz).
				4. DS/EN 300 440, v2.1.1 Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; (Electromagnetic compatibility and Radio spectrum Matters Draft).
				5. DS/EN 301489-1, v2.2.0 ElectroMagnetic Compatibility (EMC) standard for radio equipment and services, Draft.
				6. DS/EN301489-17, v3.2.0 ElectroMagnetic Compatibility (EMC) standard for radio equipment and services.
				7. AS/NZS 4268 Radio Equipment and Systems - Short Range devices.
				8. AS/NZS 2772.2 Radio Frequency Fields (mean power less than 1 mW).
		1. Platform:

\*\* NOTE TO SPECIFIER \*\* Delete platform size options not required.

* + - 1. Internal Platform Size (WxL): 31.50 x 55.12 inches (800 x 1400 mm).
				1. External Dimensions (WxL): 37.80 x 71.78 inches (960 x 1823 mm).
			2. Internal Platform Size (WxL): 35.43 x 55.12 inches (900 x 1400 mm).
				1. External Dimensions (WxL): 41.73 x 71.78 inches (1060 x 1823 mm).
			3. Internal Platform Size (WxL): 43.31 x 55.12 inches (1100 x 1400 mm).
				1. External Dimensions (WxL): 49.61 x 71.78 inches (1260 x 1823 mm).
		1. Power: 110 - 240 Vac, 50 Hz, 1.1 Amps. Maximum: 90 W. Standby: Less than 6 W.
		2. Base Floor:

\*\* NOTE TO SPECIFIER \*\* Delete flooring options not required. Plywood baseplates are suitable for indoor use only.

* + - 1. Flooring: Non Skid Linoleum Grey. Indoor only.
			2. Flooring: Non Skid Linoleum Black. Indoor only.
			3. Flooring: Aluminum checker plate.
			4. Flooring: Baseplate, Plywood. Indoor only.
			5. Flooring: Baseplate, aluminum 0.23 inch (5.8 mm).
			6. Flooring: No Flooring.
		1. Safety:

\*\* NOTE TO SPECIFIER \*\* Delete safety options not required. Vertical Barrier is for travel height of 16.69 (424 mm) or higher. Automatic fold-up Ramp is not available for 43.31 inches (1100 mm) platform width.

* + - 1. Top Landing Safety: None required.
			2. Top Landing Safety: Door Left Hand Side.
			3. Top Landing Safety: Vertical Barrier.
			4. Top Landing Safety: Door Right Hand Side.
			5. Onboard Safety: Automatic fold-up Ramp.
			6. Onboard Safety: Door Left Hand Side.
			7. Onboard Safety: Door Right Hand Side.
			8. Door Locking: Required. For 43.31 inch (1100 mm) width platform only.
			9. Door Locking: Not required.

\*\* NOTE TO SPECIFIER \*\* Battery powered emergency lowering is optional. Delete if not required.

* + - 1. Battery Powered Backup Emergency Lowering Operation: Four Li-Ion batteries to power the lift during power failure. There are no limitations to operation.
				1. Operation Capacity: Minimum 30 cycles at 77 degrees F (25 degrees C).
				2. Fully Charged: 5 hours.
				3. Flat Battery: 10 min. Charge: 1 trip.
		1. Door and Side Panels:

\*\* NOTE TO SPECIFIER \*\* Delete material options not required. Laminated glass 5/16 inch (8 mm) is only available for platform 43.31 inch (1100 mm) widths.

* + - 1. Material: No Panels.
			2. Material: Polycarbonate panel, smoke.
			3. Material: Polycarbonate panel, clear.
			4. Material: Laminated glass 5/16 inch (8 mm) for 43.31 inches (1100 mm) width platform.
			5. Material: Side Panel in Aluminum, 0.078 inch (1.98 mm).
		1. Wireless Platform Controls: 24 VDC control circuit with the following features.
			1. Direction Control: Constant pressure buttons.
			2. Emergency Stop Switch: Shuts off power and stops all operation.

\*\* NOTE TO SPECIFIER \*\* Alarm button is optional. Delete options not required.

* + - 1. Alarm Button: Added to the on-board operating panel.
				1. Pressing button activates a voltage free relay output for an external alarm (lamp, siren, etc.).
				2. Connection: To an external alarm.

To Activate Alarm: Press and hold button for 5 seconds.

* + - * 1. Connection: To an intercom system. Allows user to contact external assistance in an emergency.

To Activate Alarm: Press and hold button for 5 seconds.

\*\* NOTE TO SPECIFIER \*\* Delete operation option not required. Wireless operation is standard.

* + - 1. Operation: Wireless.
			2. Operation: Wired.
			3. Internal Receiver: 2.4 GHz Short Range. FCC ID: 2AK8H-MODULE1.
				1. Receiver Class : 3.
				2. Dimensions (L x W x H): 2.83 x 1.30 x 0.40 inches (72 x 33 x 10 mm).
				3. Weight: 0.02 lbs (10 grams).
				4. Frequencies: 2.410 GHz, 2.435GHz, and 2.460GHz.
				5. Duty Cycle: Less than 1 percent (only TX for pairing remotes).
				6. Power: Less than 0.6 mW controlled environment.
				7. Supply: 5.6 Volt 30 mA.
				8. Water and Dust: IP 54. Shall be mounted inside Liftup products.
				9. Working Temperature: 41 to 104 degrees F (5 to 40 degrees C).
				10. Storage Temperature: 13 to 158 degrees F (-25 to 70 degrees C).
				11. Expected Service Life: Greater than 5 years.

\*\* NOTE TO SPECIFIER \*\* Delete if not required. Emergency phone may be required by local jurisdiction.

* + 1. Wireless Call Station Controls: 3.0 VDC control circuit with the following features.
			1. Direction Control: Constant pressure rocker switch.

\*\* NOTE TO SPECIFIER \*\* Delete operation option not required. Keyless operation is standard.

* + - 1. Operation: Keyless.
			2. Operation: Keyed.
			3. Call Station Mounting:

\*\* NOTE TO SPECIFIER \*\* Delete mounting options not required. Lower level column mounting should not be used at landing with ramp or where a power door operator is used.

* + - * 1. Lower Level: Wall mounted surface.
				2. Lower Level: Column mounted.
				3. Upper Level: Wall mounted surface.
				4. Upper Level: Column mounted.
			1. 2.4 GHZ Short Range Device. FCC ID: 2AK8H-REMOTE2.
				1. Receiver Class: 3.
				2. Dimensions (L x W x H): 6.70 x 2.83 x 1.65 inches (170 x 72 x 42 mm).
				3. Weight: 0.4 to 0.47 lbs. (180 to 215 grams).
				4. Frequencies: 2.410 GHz, 2.435 GHz, and 2.460 GHz.
				5. Duty cycle: Less than 1 percent.
				6. Power: Less than 0.6 mW controlled environment. Hold to run.
				7. Battery: 3 Volt CR2032.
				8. Water and Dust: IP 54.
				9. Working Temperature: 41 to 104 degrees F (5 to 40 degrees C).
				10. Storage Temperature: 3 to 158 degrees F (-25 to 70 degrees C).
				11. Expected Service Life: Greater than 5 years.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + 1. Handheld Wireless Remote Control: REMOTE1.
			1. 2.4 GHz Short Range devices. FCC ID: 2AK8H-REMOTE1.
			2. Receiver Class: 3.
			3. Dimensions (L x W x H): 3.79 x 1.85 x 0.95 inches (96 x 47 x 24 mm).
			4. Weight: 0.11 lbs. (48 grams).
			5. Frequencies: 2.410 GHz, 2.435 GHz, and 2.460GHz.
			6. Duty cycle: Less than 1 percent.
			7. Power: Less than 0.6 mW controlled environment. Hold to run.
			8. Battery: 3 Volt CR2032.
			9. Water and dust: IP 42.
			10. Working temperature: 41 to 104 degrees F (5 to 40 degrees C).
			11. Storage temperature: 13 to 158 degrees F (-25 to 70 degrees C).
			12. Expected service life: Greater than 5 years.
		2. Safety Devices and Features:
			1. Grounded electrical system.
			2. Limit Switches: Upper, lower, and final.
			3. Tamper Resistant Electrical: The door is in the closed position and the lock is engaged before lift can move from landing.
			4. Electrical disconnect and emergency button shall shut off power to the lift.
			5. Anti-Crushing:
				1. Beneath Entire Lift: Pressure plates (anti-crushing) are to be fitted which activate if an object is going to be crushed below.

When Activated: The lift stops, then runs approx. 0.79 inches (2 cm) upward. At the same time an audible alarm is issued.

If Anti-Crushing Feature is Activated:

Release the operating button.

Remove objects under the lift.

If needed, run the lift upwards to easily remove objects underneath the lift.

Then the lift may be run to the lower landing.

\*\* NOTE TO SPECIFIER \*\* Ramp is optional. Delete if not required.

* + - 1. Safety Barriers:
				1. Ramp as roll-off protection. If the lift is fitted with a ramp:

Prior to Ascending: Ramp will pull up and lock before the lift will move.

When Lift Returns to Floor: Ramp will lower (keep the button pressed).

\*\* NOTE TO SPECIFIER \*\* Doors are optional. Automatic door locks are also optional. Delete doors if not required or delete automatic door locks if not required.

* + - * 1. Doors as Roll-Off Protection:

Doors will close before the lift will move.

Doors will always be closed when lift has moved off ground level.

Automatic door locks. Ensure doors are locked before the lift moves.

\*\* NOTE TO SPECIFIER \*\* Vertical Safety Barrier is optional. Delete if not required.

* + - 1. Vertical Safety Barrier at Upper Level:
				1. If the lift is fitted with a vertical safety barrier at the upper level, it will close before the lift begins to move. The vertical safety barrier will always be closed when the lift is not at the upper level.

\*\* NOTE TO SPECIFIER \*\* Lift is not available for public use in all countries. Contact Manufacturer for more detailed information. Key switch is optional. Delete if not required.

* + - 1. Lifts Accessible to the Public:
				1. Equipped with a key switch, ensuring lift can be locked when left unobserved.

Key Switch: Prevents lift from moving. Ensures doors are closed and locked.

* + - * 1. Alarm Signal to Call for Help: If lift is not under observation or locked, but the owner (or his representative) is present, close to the building, it must be equipped with an alarm signal.

Alarm Signal: Must be connected to an external alarm device (e.g., light, sound or similar) to draw attention to the need for assistance.

* + - * 1. Two-Way Communication System: Must be installed if the lift is installed such that an alarm signal is insufficient (e. g. freely accessible without observation).

Must be connected to a telephone number which is in operation at any time when the lift is accessible.

* + - 1. Emergency Lighting: For power failure or control system power gets disconnected.
				1. System automatically switches to backup mode.

System will continue to work, while powered by a backup battery.

Illuminations on the operating panel will still be lit.

* + - 1. Functionality:
				1. Buttons must be pressed and held for the entire lift motion.
				2. Users call the lift by pressing one of the buttons on the wall, or the optional associated remote control.
				3. When the user is on the platform it is operated by means of a side panel, from which the user can choose between moving to the top or bottom level.
		1. Finishes:
			1. Aluminum Extrusions: Electrostatically applied baked powder finish Fine Textured Sable Grey (RAL 7022).
			2. Ferrous Components: Electrostatically applied baked powder finish.
				1. Color: Fine Textured Sable Grey (RAL 7022).
				2. Lift Finish: Baked powder coat finish, color Fine Textured Sable Grey (RAL 7022).
1. EXECUTION
	1. EXAMINATION
		1. Do not begin installation until the substrates have been properly constructed and prepared.
		2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
		3. Headroom clearance above the platform must be minimum 79 inches (2000 mm) throughout the entire travel of the lift.
		4. The minimum illumination at the landing edge of the floor shall be minimum 50 lx (5fc) which corresponds to normal family room lighting or similar to office building hallway, The lift is only supplied with emergency lighting in case of power failure.
		5. Due to the open side barriers, a minimum safe distance to surrounding objects must be ensured to avoid risk of entrapment:
			1. For a continuous vertical surface with no edges or protrusions (completely smooth), a minimum distance of 4.72 inches (120 mm) must be ensured.
			2. For other surfaces, the minimum distance is 15.75 inches (400 mm).
		6. It must be possible to install platform controls at a height of 15 to 48 inches (380 to 1200 mm) in the surrounding area. Otherwise additional equipment is needed, e.g., a post to mount the controls
	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 in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction. FlexStep and EasyLift installation must be completed by a Liftup certified technician.
		2. The FlexStep and EasyLift are installed in a finished location. All flooring, painting, and other finish work must be completed before installation
			1. The fascia wall beneath the top landing must be smooth, vertical and flush with the top landing.
			2. The floor must be smooth and level, with no more than 3/16 inch (4.76mm) slope across the installation area. The units will require manufacturer supplied shims for floors with a greater slope.
	4. FIELD QUALITY CONTROL
		1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.

\*\* NOTE TO SPECIFIER \*\* Include if manufacturer provides field quality control with onsite personnel for instruction or supervision of product installation, application, erection, or construction. Delete if not required.

* + 1. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.
	1. CLEANING AND PROTECTION
		1. Clean the lift by wiping with a well-wrung cloth using water mixed with a mild detergent.
			1. Do not use a high-pressure jet or rinse the lift directly using a hose.
			2. Do not use aggressive cleaning agents or similar on the lift.
			3. Avoid salt or sand coming into contact with the lift in connection with winter maintenance.
			4. Any oiled wooden surfaces are to be regularly maintained (approx. every 3 months) with wood oil in order to ensure wood service life. Varnish according to need.
		2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION