

# LIFTAVATOR PRODUCT SPECIFICATIONS

Liftavator, Inc., 5299 Enterprise Drive, Lockport, New York 14094  
PHONE: 800-660-2629; FAX: 716-434-7770; website: www.liftavator.com

## SECTION 14244

### LIMITED USE HYDRAULIC CASKET ELEVATOR

\*\*\*\*\* Since 1982 Lift-Avator, Inc. has provided limited use/limited application (LU/LA) elevators, residential elevators, hydraulic vertical platform wheelchair lifts, and inclined folding seats. These products are suitable for creating barrier free environments in both new and existing construction.

This guide specification section can be used for specifying Lift-Avator LU/LA CASKET Elevators. Other Lift-Avator products can be specified with the following guides:

The specification section is organized by placing information in three standard parts:

#### PART 1 - GENERAL

Describes administrative and procedural requirements.

#### PART 2 - PRODUCTS

Describes materials, products, and accessories to be incorporated into the construction project.

#### PART 3 - EXECUTION

Describes how the products will be installed at the construction site.

\*\*\*\*\*

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. Section includes: Limited use/limited application (LU/LA), holeless, hydraulic elevator complete with platform, cab, hydraulic drive unit, controller, hoistway doors, and car gate.
- B. Related sections:

\*\*\*\*\* List other specification sections dealing with work directly related to this section such as the following. \*\*\*\*\*

1. Section 03300 - Cast-in-Place Concrete: Construction of elevator pit.
2. Section 05500 - Metal Fabrications: Steel access ladder for pit and supports for rail brackets.
3. [Section 04800 - Masonry Assemblies] [Section 09260 - Gypsum Board Assemblies]: Construction of hoistway and elevator equipment room.

## **LIFTAVATOR PRODUCT SPECIFICATIONS**

Liftavator, Inc., 5299 Enterprise Drive, Lockport, New York 14094

PHONE: 800-660-2629; FAX: 716-434-7770; website: www.liftavator.com

4. [Section 09650 - Resilient Flooring] [Section 09680 - Carpet]: Floor finish for elevator cab.
5. Division 16000 - Electrical: Electrical service for elevator, conduit, copper feeder, branch wiring, disconnect switch, convenience and telephone outlets, GFI outlet and light fixture in pit, and heat and smoke detectors.

### **1.2 REFERENCES**

- A. American Society of Mechanical Engineers (ASME) and American National Standards Institute (ANSI): ASME/ANSI A17.1 - Safety Code for Elevators, Dumbwaiters, Escalators, and Moving Stairs; Part 5 Section 5.2 - Limited Use/Limited Application.
- B. International Code Council (ICC) and American National Standards Institute (ANSI): ICC/ANSI A117.1 - Standard on Accessible and Useable Buildings and Facilities.
- C. National Elevator Industry, Inc. (NEII) - NEII Suggested Minimum Passenger Elevator Requirements for the Handicapped.
- D. National Fire Protection Association (NFPA):
  1. NFPA 70 - National Electric Code.
  2. NFPA 80 - Fire Doors and Windows.

### **1.3 SUBMITTALS**

- A. Provide in accordance with Section 01330 - Submittal Procedures:
  1. Product data for principal components with descriptions of features, performance and operating characteristics, electrical characteristics, controls, and connection requirements.
  2. Shop drawings: Present plans, elevations, sections, and details showing dimensions, clearances, tolerances, component locations, elevator equipment room layout, control diagrams, loadings, and installation details.
  3. Samples of exposed finishes.
  4. Copy of warranty required by Paragraph 1.5 for review by Architect.
  5. Copy of maintenance contract required by Paragraph 1.6 for review by Owner and Architect.

## **LIFTAVATOR PRODUCT SPECIFICATIONS**

Liftavator, Inc., 5299 Enterprise Drive, Lockport, New York 14094

PHONE: 800-660-2629; FAX: 716-434-7770; website: www.liftavator.com

- B. Provide in accordance with Section 01778 - Closeout Submittals: Operation and maintenance manuals.

### **1.4 QUALITY ASSURANCE**

- A. Perform work in accordance with ASME/ANSI A17.1 and NFPA 70.
- B. Design and installation shall conform to NEII Suggested Requirements and ICC/ANSI A117.1 for provisions for physically handicapped.

**\*\*\*\*\* Lift-Avator standard hoistway doors are fire-rated, UL B label, 90 minutes assemblies. \*\*\*\*\***

- C. Comply with NFPA 80 and provide fire rated hoistway entrances tested and labeled by Underwriters Laboratories, Inc. (UL).
- D. Products requiring electrical connection shall comply with NFPA 70 and be listed by Underwriters' Laboratories, Inc. (UL) as suitable for the purpose indicated.
- E. Qualifications:
  - 1. Manufacturer: Company specializing in manufacture of hydraulic elevators with 20 years minimum documented experience.
  - 2. Installer: Either employee or certified installer of elevator manufacturer.

### **1.5 WARRANTY**

- A. Provide in accordance with Section 01780 - Closeout Submittals: 5 years parts warranty.

### **1.6 MAINTENANCE SERVICE**

- A. Furnish maintenance service for elevator system for one year from date of Substantial Completion.
- B. Examine system components bi-annually. Clean, adjust, and lubricate equipment.
- C. Repair or replace parts whenever required. Use parts produced by manufacturer of original equipment.
- D. Provide emergency call service with 24 hours response.

## **LIFTAVATOR PRODUCT SPECIFICATIONS**

---

Liftavator, Inc., 5299 Enterprise Drive, Lockport, New York 14094

PHONE: 800-660-2629; FAX: 716-434-7770; website: www.liftavator.com

- E. Perform maintenance work using competent and qualified personnel under supervision and employ of original installer.
- F. Maintenance contract shall be renewable and shall not be assigned or transferred without prior written consent of Owner.

### **PART 2 - PRODUCTS**

#### **2.1 ACCEPTABLE MANUFACTURER**

- A. Lift-Avator, Inc., 5299 Enterprise Drive, Lockport, New York 14094; 800-660-2629; www.liftavator.com.
- B. Requests to use equivalent products of other manufacturers shall be submitted in accordance with Section 01630 - Product Substitution Procedures.

#### **2.2 ELEVATOR**

##### **Model L1 Casket: 36 by 96 inches platform with sliding door.**

- A. Type: Limited use, limited application, holeless, hydraulic, elevator; L1A as manufactured by Lift-Avator, Inc.
- B. Platform size: 36" by 96" [inches] Other sizes available. Contact factory.
- C. Minimum clear hoistway: 73" X 106"
- D. Clear car height: [86 inches] [2,184 mm].
- E. Pit depth: [42 inches] [1,067 mm]
- F. Rated net capacity: [[1,800] pounds].
- G. Rated speed: [20 feet] per minute.
- H. Travel distance: Up to 25. Additional travel up to 50 ft with variance
- I. Number of stops: [up to 5]
- J. Number of car openings: 1 or 2
- K. Operation: Key controlled with illuminated car and landing push call buttons. Car station shall contain keyed on/off switch, light switch, stop button, alarm bell, and push button for each landing. Leveling shall be automatic.

## **LIFTAVATOR PRODUCT SPECIFICATIONS**

---

Liftavator, Inc., 5299 Enterprise Drive, Lockport, New York 14094

PHONE: 800-660-2629; FAX: 716-434-7770; website: www.liftavator.com

### **2.3 EQUIPMENT**

- A. Equip elevator with hydraulic cylindrical plunger to move car up and down hoistway and operated by electric, self-contained drive unit located in elevator equipment room.
  - 1. Reservoir: 11 gage steel with [26 gallon] [98 liters] capacity.
  - 2. Motor: 5 HP, 220 volts, single phase, 30 amp.
  - 3. Pump: 3 screw, pulsation free, under oil type.
  - 4. Control valve: Unitized type with power-off manual lowering.
- B. Cylinder: Direct coupled holeless jack assembly complying with ANSI A17.1, 1302.1A, 1302.1, and 1302.34 and equipped with internal bearing, bronze head, bearing gland assembly, removable steel foot plate, air bleed port, and oil drain port. Cable drive systems are unacceptable.
- C. Controller: Solid state, programmable unit with plug-in type relays, neon light, test buttons, and adjustable timer.
- D. Provide steel T section guide rails bolted to welded steel wall brackets, anchors, and other hardware designed and sized according to code with appropriate safety factors.
- E. Piping: Provide size, type, and weight recommended by manufacturer. Provide isolation couplings to prevent sound and vibration transmissions from power unit.
- F. Electrical components: Conform to NFPA 70. Include wiring and connections to elevator devices remote from hoistway.

### **2.4 CAR AND PLATFORM**

- A. Frame: Welded steel sections.
- B. Platform: Fabricated with welded steel channels and 11 gage steel plate with 1/2 inch thick underlayment board to receive floor finish.
- C. Loading: Class A.

### **2.5 CAB**

- A. Exterior panels:
  - 1. Wall: 16 gage steel.

## **LIFTAVATOR PRODUCT SPECIFICATIONS**

Liftavator, Inc., 5299 Enterprise Drive, Lockport, New York 14094

PHONE: 800-660-2629; FAX: 716-434-7770; website: www.liftavator.com

2. Roof: 14 gage steel.
- B. Flooring: [Carpet tile selected by Architect from elevator manufacturer's standard range.
- C. Interior wall finish: [Plastic laminate on [1/2 inch] [13 mm] core. Color and pattern selected by Architect from elevator manufacturer's standard range.] [Wood veneer face of species and factory applied finish selected by Architect from manufacturer's standard range.] [Brushed stainless steel.] [Fiberglass reinforced plastic coated panels.]
- D. Cab [gate] [door]: [Full height. Electrically operated, sliding, [brushed stainless steel] Equip [gate] [door] with electrical interlock to prevent opening when elevator is not at landing.
- E. Ceiling lighting: Manufacturer's standard dual fluorescent fixtures.
- F. Fixtures: [Stainless steel with brushed No. 4 finish.]
  1. Handrail: [3/4 by 3 inches] [19 by 76 mm].
  2. Telephone cabinet with hands free phone.
  3. Inspection certificate and instructions frame.
  4. Operation panel.

### **2.6 HOISTWAY ENTRANCE**

- A. Hoistway door assembly:
- B. Automatic operation: Equip hoistway doors with electrical operator to automatically open and close doors.
- C. Equip door assembly with electro-mechanical interlocks to prevent door opening when elevator is not at landing.

## **PART 3 - EXECUTION**

### **3.1 PREPARATION**

- A. Coordinate work with other trades to ensure proper timing and sequencing and to avoid delays. Provide inserts and other anchorage devices for proper installation in concrete floors and walls. Coordinate requirements for structural attachment of rails.

## **LIFTAVATOR PRODUCT SPECIFICATIONS**

Liftavator, Inc., 5299 Enterprise Drive, Lockport, New York 14094

PHONE: 800-660-2629; FAX: 716-434-7770; website: www.liftavator.com

- B. Examine and verify that hoistway, pit, openings, and elevator equipment room are correctly sized and ready for installation of elevator system. Do not proceed until deficiencies have been corrected.

### **3.2 INSTALLATION**

- A. Install elevator in accordance with manufacturer's instructions and approved shop drawings.
- B. Install cylinder/plunger unit plumb and accurately centered for car position and travel. Anchor securely in place.
- C. Connections: Welded unless bolted connections are required for subsequent removal for inspection, maintenance, adjustment, or replacement of parts.
- D. Sound isolation: Mount rotating and vibrating equipment on vibration and acoustic isolators to prevent transmission of vibrations to structure. Securely fasten equipment and prevent lateral displacement.
- E. Guide rails: Accurate align and coordinate with entrance locations. Form smooth joints with machined splice plates. Compensate for expansion and contraction movement of rails.
- F. Hoistway entrances: Install door sills and frames in hoistway walls. Grout sills in place. Set entrances in vertical alignment with car openings.
- G. Cleaning: Remove protective coverings from finished surfaces. Clean surfaces and components.

### **3.3 TESTING AND DEMONSTRATION**

- A. Upon completion and prior to permitting use of elevator, perform tests to verify load rating and safety factors meet or exceed ASME A17.1 specifications.
- B. Correct, adjust, and retest as required.
- C. Instruct Owner's designated representatives in proper use, operation, and maintenance of elevators. Review emergency provisions and procedures for checking malfunctions.

**END OF SECTION**