LANDMARK CERTIFICATE OF APPROPRIATENESS – Application
3/15/16

Design review for this project will not begin until a complete application and required submittal materials are received. Landmark Preservation reserves the right to delay consideration and/or action on a submittal in the event that information is missing and/or changed at the time of the scheduled design review or public hearing. Please use the appropriate project checklist for guidance. A pre-application review is required first for certain projects.

SUBJECT PROPERTY INFORMATION

<table>
<thead>
<tr>
<th>Property Address</th>
<th>1624 Market St (Unit Located C Suite 1650 Market)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property Type/Use</td>
<td>□ 1 or 2 Unit Building (Single Family Home, Duplex)</td>
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<tr>
<td></td>
<td>□ Commercial</td>
</tr>
<tr>
<td></td>
<td>□ Multi-Unit Residential</td>
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<tr>
<td>Historic District</td>
<td>LOWER DOWNTOWN</td>
</tr>
<tr>
<td>Applicant</td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>JIM BERSHOF</td>
</tr>
<tr>
<td>Company</td>
<td>OZ ARCHITECTURE</td>
</tr>
<tr>
<td>Phone</td>
<td>303-905-5792</td>
</tr>
<tr>
<td>Email</td>
<td><a href="mailto:jbershof@ozarch.com">jbershof@ozarch.com</a></td>
</tr>
<tr>
<td>Street</td>
<td>3003 Larimer St</td>
</tr>
<tr>
<td>City</td>
<td>DENVER</td>
</tr>
<tr>
<td>Zip</td>
<td>80202</td>
</tr>
</tbody>
</table>

ITEMIZED LISTING OF PROPOSED WORK ITEMS – only listed items will be reviewed:

[Example: Replace roof shingles, Construct 2-car detached garage, etc.] Only work listed below will be considered.

- *ADD INCLINED STAIR LIFT* □
- *REPLACE ENTRANCE DOORS & ADD SIDE LITE (NOTE: DOORS ARE NOT ORIGINAL)* □
- *LIFT: CLEAR ANODIZED ALUM. TUBING, PAINTED STEEL PLATFORM* □
- *NEW DOOR & SIDE LITE: BLACK ANODIZED ALUM., CLEAR GLASS* □
- *

Amount of demolition of original features/materials □ 0 square feet

APPLICATIONS ARE NOT CONSIDERED COMPLETE UNTIL ALL INFORMATION REQUIRED ON THE APPROPRIATE SUBMITTAL CHECKLIST IS SUBMITTED

I attest that no additional exterior work or window work will occur under this application (sign, and print application).

[Signature] 3/15/16

Design Review Deadline: The filing deadline is 4 weeks prior to scheduled Landmark Preservation Commission (LPC) meetings, and 23 days (3 weeks and 2 days) prior to the first Thursday of each month for the Lower Downtown Design Review Board (LDDRB). A complete application, including full supporting documentation, is due in the Landmark Preservation office by 12:00pm (noon) on the filing deadline. Landmark staff will determine whether LPC or LDDRB review is required based on adopted design guidelines. Staff will contact the applicant regarding staff comments, meeting dates (if applicable) and any additional materials that may be required.

To submit electronically: Email this form and supporting materials to landmark@denvergov.org. Electronic submission should include two attachments: one pdf with the completed form ("yourname-app.pdf") and one pdf that combines all supporting materials ("yourname-app-materials.pdf"). File size should not exceed 25MB combined. Contact us if you are having trouble with your electronic submission.

To submit in person: Submit this form and supporting materials to the Records Counter weekdays between 7:30am and 4:30pm on the 2nd floor of the Webb Municipal Building, 201 W. Colfax Ave.

All submittals become the property of the City & County of Denver. Submittals are open records.

Submittals will be posted online or made available to any party that requests a copy.
Design Review General Application Checklist

Design review is a collaborative process used to examine projects in designated historic areas or properties for architectural design and compatibility with the nearby historic built environment. Applications submitted for design review must be accompanied with specific information which adequately describes or studies the proposal. To comply with the required submittal standards of Denver Landmark Preservation, submitted documentation shall clearly illustrate the existing conditions as well as any proposed alteration(s).

Submit this form, completed, with the required submittal documentation

BUILDING ADDRESS 13 1624 MARKET ST.
Project Address: ACTUAL SUITE LOCATION IS 16050 MARKET STREET

The following is REQUIRED:

☑ 1. Complete Application for Design Review

☑ 2. Plans / drawings / sketches that adequately depict the project

☑ 3. Details and materials of the project

☑ 4. Color photos of existing conditions

Review is based on a comparison of the proposal and the Secretary of the Interior's Standards, Design Guidelines for Landmark Structures and Districts, Landmark Preservation Ordinance Chapter 3 Revised Municipal Code and other applicable adopted guidelines. Landmark staff is not responsible for building or zoning review. Please submit plans to those agencies for comment.

Please note: If the proposal includes demolition of an existing structure a separate demolition application will need to be approved.

Additional documentation may be required to adequately depict the project and its impact on a historic property or historic district.

LEGAL DISCLAIMER: This Advisory should not be used as a substitute for codes and regulations. The applicant is responsible for compliance with all code, guideline and/or rule requirements, whether or not described in this Advisory.

FOR CITY SERVICES VISIT DenverGov.org | CALL 311
REMOVE EXISTING DOOR AND PREPARE OPENING FOR INFILL AND SMALLER OPERABLE PANEL

LIFT POWER UNIT
UPPER POSITION OF LIFT
LOWER LIFT POSITION
LIFT ALIGNMENT RAIL

ADJUST PLANTER LOCATION TO THE EAST TO ACCOMMODATE WORKING AND ACCESSIBILITY CLEARANCE OF THE LIFT

3' - 2"

3' - 0"

3' - 0" WIDE DARK ANODIZED MEDIUM STYLE ALUM DOOR AND INFILL MULLIONS WITH PANIC HARDWARE AND CLOSER

COORDINATE WITH OWNER FOR LOCKING HARDWARE

TEMPERED GLAZING SIDELIGHT

MARKET CENTER - ADA ACCESS
1330 17TH STREET
DENVER, COLORADO

NOTE: PHOTO TO SHOW SIMILAR INSTALLATION AND ILLUSTRATE LIFT STORAGE POSITION

LIFT SHOWN IN ITS STORAGE POSITION

FLOOR PLAN NOTES

1. DIMENSIONS ARE TO FACE OF STUD, FACE OF CONCRETE/MASONRY, OR COLUMN CENTERLINE. UNO DIMENSIONS DESIGNATED AS "CLEAR" OR "HOLD" SHALL BE MAINTAINED.

2. EXISTING INFORMATION SHOWN ON THE DRAWINGS IS BASED ON LIMITED FIELD OBSERVATIONS AND/OR INFORMATION PROVIDED BY THE OWNER. OZ ARCHITECTURE IS NOT RESPONSIBLE FOR THE ACCURACY OF INFORMATION OR THE ADEQUACY, SAFETY, AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS. THE GC SHALL THOROUGHLY EXAMINE THE PREMISES AND SHALL BASE HIS BID ON THE EXISTING CONDITIONS NOT WITHSTANDING ANY INFORMATION SHOWN, OR NOT SHOWN, ON THE CONTRACT DOCUMENTS. SHOULD ANY DISCREPANCIES BE FOUND, THE GC SHALL SEEK CLARIFICATION FROM THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

3. THE GC SHALL MAINTAIN THE INTEGRITY OF THE EXISTING STRUCTURE AND FIREPROOFING UNITS.

4. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, NOTIFY THE OWNER AND ARCHITECT IMMEDIATELY AND AWAIT FURTHER INSTRUCTIONS.

5. WORK TO BE REMOVED IS ILLUSTRATED IN DASHED LINE-WORK. EXISTING CONSTRUCTION TO REMAIN IS ILLUSTRATED IN LIGHT LINE-WORK. ALL ITEMS FOR REMOVAL MAY NOT BE SPECIFICALLY NOTED. REMOVE ITEMS AS NECESSARY FOR THE COMPLETION OF THE WORK.

6. WHERE DOORS ARE NOT SPECIFICALLY LOCATED, PROVIDE A HINGE-SIDE JAMB DIMENSION OF 4" FROM DOOR OPENING TO ADJACENT PERPENDICULAR PARTITION.

7. COORDINATE UTILITY SHUT-DOWNS WITH BUILDING OWNER.

8. FIELD VERIFY DIMENSIONS PRIOR TO FABRICATION OF BUILT-ITEMS.

SCALE: 7/16" = 1'-0"
The GSL Artira inclined platform lift provides an advanced access solution for straight, turning or radiating stairways. The attractively styled platform travels along guide rails mounted to the inside or outside of the stairway. Design flexibility allows for extensive customization of the GSL Artira. Suitable for indoor or outdoor applications, the GSL Artira can be installed in commercial and residential applications.
### Design Versatility of the GSL Artira

- **Turning Multi-Stop Stairway**
- **Access onto a Stage**
- **Straight Stairway with Intermediate Horizontal Section**
- **Straight Stairway with Platform Storage off the Stairs**
- **Radiating Stairway**

### TURNING CLEARANCES

#### ADA Size

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<th>Attachment Method</th>
<th>800 x 1220 mm (31 1/2” x 48”)</th>
<th>800 x 1050 mm (31 1/2” x 41 3/8”)</th>
<th>800 x 900 mm (31 1/2” x 35 3/8”)</th>
<th>700 x 750 mm (27 1/2” x 29 1/2”)</th>
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**Safety Features**

1. Passenger and pedestrian safety is assured by under-platform sensors that stop the platform if it encounters an obstruction.

2. Flashing amber Pedestrian Safety Lights are located at either end of the platform deck, alerting pedestrians of the platform in the stairway, and illuminating the platform threshold for safer boarding.

3. Bi-Directional Ramp Sensing detects obstructions on the stairs and prevents a wheelchair from being off-center on the platform deck.

---

**Vandal-Resistant Platform Storage**

With its remote drive system, the Artira has the most compact folded platform in the industry, leaving maximum clear space on the stairs and landings. When folded, the Artira’s platform conceals and protects the folded safety arms and platform controls. For further vandal resistance in public buildings, a robust electric Platform Security Lock can be fitted.

---

**Ultra-Quiet Drive with PCC™ System**

The Ultra-Quiet Drive is located in a locked drive box away from the platform and uses a solid state inverter to drive a silent yet powerful 2 horsepower electric motor. The Programmable Configuration Controller (PCC™) allows the Artira to be customized for each stairway application, including slowing at corners and landings, automatic folding, building fire alarm integration and many other sophisticated capabilities.

---

**Smart-Lite Technology™**

Garaventa Lift’s computer-based lift control system intuitively guides the user through the operating sequence by illuminating the appropriate button to push. Fold and unfold functions are fully automated and work with a simple momentary push of the illuminated button.

---

**Curved Safety Arms**

Curved safety arms further enhance passenger safety during platform boarding and while travelling on the stairway. The Artira’s safety arms have fully automated operation and electronic obstruction sensing.

---

**Design Assistance**

[Website Link]

Design Hotline: 1.800.663.6556
Toll Free North America
GSL ARTIRA

Need Design Assistance? Call your local Garaventa Lift representative or our Design Hotline at 1.800.663.6556

SPECIFICATIONS

Platform: Large ADA compliant, mid-size, compact and residential sizes

Power Requirements: 208-240 VAC, 50/60 Hz on a dedicated 20 Amp circuit | Auxiliary power system available (battery powered)

Rated Load: 300 kg (660 lbs)

Drive System: Upper landing 2 HP Drive Box (Roped Sprocket Drive) | Optional Compact Drive system available

Speed: 6 m/min (20 ft/min), slowing prior to corners and when approaching or departing landings | Optional 9m/min (30ft/min)

Controls: Call Station (standard): Keyed with constant pressure switches, 24VDC, equipped with Garaventa Smart-Lite Technology™ | Platform (standard): Keyless with constant pressure directional switches, 24VDC, equipped with Emergency Stop Switch

Overspeed Safety: Located at the bottom of the tube assembly | Contains mechanical overspeed sensor and brake, with electrical drive cut-out protection

Safety: Emergency manual lowering and folding | Sensors: Standard under platform obstruction detection | Optional side of hanger optical sensing | Bi-Directional Ramp Sensing | Curved safety arms | Pedestrian safety lights

Finishes: Durable electrostatically applied and baked textured satin grey paint | Optional stainless steel finish and custom RAL colors

Optional Features: Attendant remote control | Keyed platform operation for additional security | Auto-fold option keeps stairway clear | Side load platform for confined lower landings | Fold-down seat with seat belt | Dek-Lite (only available with fold-down seat) | Integrated Pedestrian Handrails | Pedestrian Audio Visual Alert (wall mount) | Building fire alarm integration | Outdoor weatherproofing package | Vandal resistant platform lock (electric)

Warranty: Two years | Extended warranty (five additional years) * USA/Canada only

Contact us today

Phone: +1 604 594 0422
Toll Free: 1 800 663 6556
Web site: www.garaventalift.com

Authorized Garaventa Lift Representative

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© Garaventa Lift. As we are continuously improving our products, specifications outlined in this brochure are subject to change without notice.
GSL ARTIRA

PLANNING GUIDE

Inclined Platform Lift For Straight And Turning Stairways

www.garaventalift.com
Please note:
Dimensions provided in this Guide are for REFERENCE ONLY and should not be used for site preparation or construction.
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What is an Inclined Platform Lift?

An inclined platform lift easily transports a passenger in a wheelchair, or someone who has difficulty using stairs. The lift can be operated independently or by an attendant with an attendant remote control (optional item). Compatible for indoor and outdoor applications, the Garaventa Artira Inclined Platform Lift is a versatile, attractive and cost-effective accessibility solution.

Why a GSL Artira?

- **Meets ADA Requirements** - Garaventa inclined platform lifts are approved as a means to provide public building access. Compliant to ASME A18.1 (USA) and CSA B355 (Canada).
- **The Established Benchmark** - Garaventa Lift has been designing and manufacturing inclined platform lifts since 1978. More Garaventa inclined platform lifts are installed in commercial buildings in North America than all other current manufacturers combined.
- **Minimal or No Stairway Modification** - The Artira will fit into most existing stairways and do not require specially constructed hoistways.
- **Space Saver** - The Artira does not permanently occupy valuable floor space and, when folded, is the most compact inclined lift available. It is also capable of turning tighter corners than any other lift on the market.
- **Safety** - The Artira is available with a large selection of safety and usability options. It is considered to be one of the most user-friendly inclined platform lifts available today.

Design Assistance

With over 35 years of experience, Garaventa Lift is willing and able to overcome almost any design challenge you face. Please call our Design Hot Line with your accessibility challenge.

1-800-663-6556 or 1+604-594-0422

Design Versatility

The GSL Artira can be designed for turning, straight or radiating stairways with or without intermediate landings. It is suitable for multi-level buildings with a wide variety of design configurations.

Some of the many design configurations include:

- Straight Stairway With An Intermediate Horizontal Landing
- Straight Stairway With Platform Storage
- Unusual Bends:
  For applications such as theaters, restaurants or lecture halls.
**Unusual Landings:**
An ideal layout for stages or store entrances.

**Radiating Stairs:**
Found in installations such as hotel lobbies or observatories.

**Spiral Stairs:**
Grand staircases in hotels or theaters.

**Applications Include:**
- Schools
- Courthouses
- Theaters
- Restaurants
- Hospitals
- Churches
- Commercial Buildings
- Historical Buildings
- Residential
- And Many More
The GSL Artira is finished in a durable polyester powder paint coating that is electrostatically applied and baked at 210° C (410° F).

**Standard Color**
Garaventa Lift’s standard color, Satin Grey (fine textured), complements a variety of modern and traditional decors (color samples are available upon request).

**Custom Colors (Optional)**
Garaventa Lift offers a choice of colors from the internationally accepted RAL color charts (color samples are available upon request).

**Stainless Steel Finish (Optional or for Outdoor Applications)**
For aesthetic purposes the tubes, towers, drive box, sensing plate and call stations can be ordered in a combination brushed and electro-polished stainless steel finish. Tubes and towers are electro-polished whereas the drive box and sensing plates are brushed. Stainless steel components are also available with a powder coat painted finish.

**Outdoor Applications**
When located outdoors, the lift must be equipped with stainless steel outdoor compatible components. See page 21 for more information on the outdoor weather-resistant package. For outdoor units, stainless steel components are available in a painted finish.

*Note: In certain indoor applications such as near a swimming pool, an outdoor weather-resistant package may be required.*

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**Where You’ll Find Our Lifts**
Garaventa Lift has completed over 50,000 installations world wide. Some of our well-known inclined lift installations include:

- National Art Gallery - Ottawa, ON, Canada
- Presidential Palace - Seoul, Korea
- City Hall, San Francisco, CA, USA
- #10 Downing Street - London, England
- The Peak - Hong Kong
- Madison Square Garden - New York, NY, USA
- Yankee Stadium - New York, NY, USA
- Harvard Business School - Cambridge, MA, USA
- Metro System - Santiago, Chile & Mexico City, Mexico
- BART (Bay Area Rapid Transit), San Francisco, CA, USA
- Safeco Field, Seattle, Washington, USA
- Minnesota Twins Ball Park - Minneapolis, MN, USA

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*Stainless Steel Tubes & Towers*
How it Works

Two custom-designed **steel guide tubes** which are custom designed for each stairway support the **platform**. These tubes contain a continuous loop of **wire haul rope** that is attached to the **upper carriage**. This carriage is mounted to the back of the platform through a slot in the upper tube. The **drive system**, consisting of an electric motor and **drive cog**, moves the wire haul rope and the wheelchair platform up and down the stairway.

**Overspeed Safety**

The Overspeed Safety is located at the lower end of the tube system and consists of a mechanical pawl and electrical cut-out switch. In the unlikely event that the lift should descend too quickly, both the mechanical and electrical safety will activate simultaneously and stop the platform from moving.
Component Identification

The main components of an inclined lift are:

**Platform, Drive, Guide Tubes, Call Stations**

![Diagram of inclined lift components](image)

- **Call Station**
- **Audio Visual Alert**
- **Support Tower**
- **Guide Tubes**
- **Standard Drive System**
- **Overspeed Safety**
- **Optional Compact Drive System**
- **Lower tube arrangement with Tensioning Device for optional Compact Drive System**

Design Hot Line: 1-800-663-6556 or +1-604-594-0422

Artira Design & Planning Guide  
15810-M-DP
Platform

Platform Sizes
The platform is available in four sizes, all with a rated load of 300 kg. (660 lbs.).
- 800 x 1220mm (31 1/2" x 48") *
- 800 x 1050mm (31 1/2" x 41 3/8")
- 800 x 900mm (31 1/2" x 35 3/8")
- 700 x 750mm (27 1/2" x 29 1/2")
*ADA Compliant

Platform Control Panel
The durable and vandal resistant platform control panel is mounted to the platform hanger. The standard platform controls are permanently mounted and consist of two large illuminated constant pressure Directional Buttons for independent operation and an Emergency Stop Button (with illumination optional).

Optional Attendant Remote Control Unit
The platform can be equipped with an optional Attendant Remote Control that overrides the constant pressure Directional Buttons during attendant operation. The remote control unit can be removed when not required.
Standard Platform
Safety Features

Safety Sensing
The platform is equipped with safety sensors listed below. These sensors will automatically stop the lift when activated by 1.8 kg (4 lbs.) of pressure. The platform can then be backed away from the obstruction.

- **Leading Ramp Sensor**
  When the platform is called to or from the landing area in the folded up position the leading ramp is sensitive to obstructions.

- **Bi-Directional Ramp Sensing**
  The inside and outside surfaces of the leading ramp are obstruction sensitive in the direction of travel.

- **Under Platform Sensing Plate**
  The under platform sensing plate detects obstacles underneath the platform.

Curved Safety Arms
Fully automatic 32mm (1 1/4") diameter Curved Safety Arms further increase the safety of the GSL Artira. They are directly over the perimeter of the platform, guarding the user. The top of the arm is located 948mm (37 3/8") above the platform deck. If arms should encounter an obstruction, they will retract to the up position upon release of the directional control button.

Emergency Stop Button
Located on the platform control panel, this large red button is used to stop the lift in an emergency.

Smooth Start & Stop
The Artira is equipped with a variable speed drive, programmed to automatically slow down while travelling through certain sections of the staircase. The platform is programmed to slow to 50% of the normal travel speed well in advance of corners and resumes full speed when the platform reaches straight sections. The lift controller is also programmed to slow the platform travel speed when approaching and departing landings.

Grab Bar
The Grab Bar is a 25mm (1") diameter aluminum bar located on the front face of the platform control panel to assist passengers in loading and unloading.

Pedestrian Safety Lights
This illuminated tube lighting located at the base of the ramps visually alerts pedestrians of the platform's location during travel, while still being discreet to the passenger.

Emergency Fold
In an emergency the platform can be manually folded and will lock in the folded position.
Optional Platform Features

**Platform Lock**
This lock secures the platform in its folded position protecting the unit from vandalism.

**Under Hanger Obstruction Sensing**
When the platform moves to or from the landing area in the folded up position, sensors on the underside of the hanger will automatically stop the lift when activated by a minimum of 1.8 kg (4 lbs.) of pressure.

**Pedestrian Audio Alert**
When the platform is folded up and traveling between stations, an audio chime on the platform is activated indicating the lift is in motion. The chime is deactivated when a passenger is using the lift.

**Folding Seat**
Designed for use by ambulatory passengers, this folding seat is equipped with a safety belt. For commercial applications, the folding seat and seat belt are required by the ASME A18.1 safety code in the USA.

**Dek-Lite (requires folding seat)**
Mounted below the folding seat, this light provides additional lighting to the platform.

**Side Load**
For confined lower landing spaces, an automatically deployed side load ramp allows the passenger to wheel onto the platform diagonally, offering easier access.

**Auto Fold**
This feature automatically folds the platform if it is left unfolded at a landing for a period of time.

**Platform on Board Alarm**
When the Emergency Stop Button is activated it illuminates and an alarm located on the platform. The alarm will alert others that the passenger on the lift requires assistance.

**Attendant Remote Control**
The Attendant Remote Control overrides the platform controls allowing an attendant to operate the lift.

**Key Switch**
To meet some local code requirements a key switch can be added to the platform control panel.

**Side of Hanger Optical Sensing**
Mounted on the side of the platform hanger, these sensors are designed to protect pedestrian traffic. This feature detects possible obstructions in open-core stairways and while the lift turns corners.

**Note:** In some jurisdictions certain optional features are either not permitted or mandatory depending on local codes. Please consult your local Garaventa representative for clarification.
Call Stations

Located at each landing, the call station enables the user to unfold the platform with a touch of a button. If the platform is not at the landing, the user simply presses the illuminated directional button to call the platform to their landing.

Garaventa Smart-Lite Technology™
The Artira’s Smart-Lite Technology™ illuminates the correct call station button, guiding the user through the sequenced steps to call and unfold the lift from the call station (patent pending).

Call Station Options
- Emergency Stop Button (with illumination optional)
- Attendant Call Switch

Keyless (optional)
A keyless call station is available as an option. The keyless lift does not have a keyswitch on the call station.

Remote Platform Fold/Call (optional)
This feature allows the platform to be folded up and called from any call station should the platform be left folded down.

Mounting Options
The call stations can be mounted on the wall (surface or flush mounted) or on a pedestal (when no suitable surface is available). The upper call station can also be mounted on the drive box or on the tube system itself (only available with Drive Box arrangement). Flush mount call stations can be pre-wired during the construction or building renovations, resulting in a cleaner appearance with no surface wiring.
Lower Landing Configuration Options

A variety of lower landing configurations are available to suit each stairway. If you have a unique arrangement, contact your local Garaventa representative or call the Garaventa Design Hot Line for more information.

**Straight Lower Landing for Drive Box**
This configuration is used when there is adequate space to load/unload straight onto the platform at the lower landing.

**Drop-Down Lower Landing**
(Drive Box System Shown) When lower landing space is limited, the lower landing section of the tubes are angled downward at a 45° angle to land the platform as close to the bottom step as possible. This configuration is often combined with the side load feature.

**Straight Lower Landing for Compact Drive**
The Rope Tensioning Device used with the Compact Drives requires a minimum clearance of 250mm (9 7/8”) from the end of the tubes to the nearest obstruction.

Artira Design & Planning Guide
15810-M-DP
**90° and 180° Lower Landings**
These configurations place the platform away from pedestrian traffic while loading/unloading and storing the platform. Ideal for stairs with sufficient clearances such as stairways with alcoves, hallways or otherwise unused spaces under stairs.

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**Required Lower Landing Clearances**

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<thead>
<tr>
<th>Platform Size</th>
<th>Dim. A</th>
<th>Dim. B</th>
<th>Dim. C</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 x 1220 mm*</td>
<td>2883</td>
<td>1708</td>
<td>1540</td>
</tr>
<tr>
<td>(31 1/2&quot; x 48&quot;)*</td>
<td>(113 1/2)</td>
<td>(67 1/4)</td>
<td>(60 5/8)</td>
</tr>
<tr>
<td>800 x 1050 mm</td>
<td>2713</td>
<td>1538</td>
<td>1370</td>
</tr>
<tr>
<td>(31 1/2&quot; x 41 3/8&quot;)</td>
<td>(106 3/4)</td>
<td>(60 1/2)</td>
<td>(53 7/8)</td>
</tr>
<tr>
<td>800 x 900 mm</td>
<td>2563</td>
<td>1388</td>
<td>1220</td>
</tr>
<tr>
<td>(31 1/2&quot; x 35 3/8&quot;)</td>
<td>(100 7/8)</td>
<td>(54 5/8)</td>
<td>(48)</td>
</tr>
<tr>
<td>700 x 750 mm</td>
<td>2368</td>
<td>1218</td>
<td>1070</td>
</tr>
<tr>
<td>(27 1/2&quot; x 29 1/2&quot;)</td>
<td>(93 1/4)</td>
<td>(48)</td>
<td>(42 1/8)</td>
</tr>
</tbody>
</table>

**Notes:**
- *ADA Compliant*
- Dimension A + B has been calculated using a drop-down landing configuration and a first riser height of 178mm (7").
- Dimensions are based on standard platforms with standard ramps. Ramp extensions will increase the clearances required.
- Contact your local Garaventa representative or call the Garaventa Design Hot Line for more information.

---

**Landing Over a Flight**
This enables the platform to be loaded/unloaded and stored over a flight of stairs that is not being serviced by the lift.
Required Turning Clearances

Stair Width Clearances and Platform Projection Dimensions
### Turning Clearance Chart

The space requirements of the GSL Artira are affected by how the tube system is supported. The lift can either be mounted directly to the wall, **Direct Mount**, or structural support posts can be supplied **Tower mount**. For further information on Attachment Methods please refer to page 26 & 27.

<table>
<thead>
<tr>
<th>Dim.</th>
<th>Attachment Method</th>
<th>Platform Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>800 x 1220 mm*</td>
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<tr>
<td></td>
<td></td>
<td>(31 1/2&quot; x 48&quot;)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mm</td>
</tr>
<tr>
<td>A</td>
<td>Direct Mount</td>
<td>125</td>
</tr>
<tr>
<td></td>
<td>Tower Mount</td>
<td>150</td>
</tr>
<tr>
<td>C</td>
<td>Direct Mount</td>
<td>1015</td>
</tr>
<tr>
<td></td>
<td>Tower Mount</td>
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</tr>
<tr>
<td>E</td>
<td>Direct Mount</td>
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<tr>
<td></td>
<td>Tower Mount</td>
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</tr>
<tr>
<td>F</td>
<td>Direct Mount</td>
<td>1225</td>
</tr>
<tr>
<td></td>
<td>Tower Mount</td>
<td>1250</td>
</tr>
</tbody>
</table>

**Notes:**

- *ADA Compliant*
- Dimensions E and F include 20mm (3/4") running clearance and include standard ramps. Ramp extensions will increase the clearances required. Contact your local Garaventa Lift representative or call the Garaventa Design Hot Line for more information.
- For towers mounted to 2” x 6” wood boards on walls (see page 26) add 38mm (1 1/2”) to the above tower mount dimensions.
Standard Upper Landing Drive Configurations

A variety of configurations are available for each drive system. If you have a unique or complex application that is not covered in this guide, contact your local Garaventa Lift representative or call the Garaventa Design Hot Line for more information.

Standard In-Line Drive
The standard in-line drive configuration places the drive 1200mm (47 1/4") from the top of the stairs to allow a passenger to load and unload the platform and maneuver past the drive box.

90° & 180° Drive
The 90° or 180° configuration allows the drive box to be located away from the top of the stairs and pedestrian traffic.

Offset Drive
When upper landing space is limited, the drive box can be positioned closer to the stairs and to the wall.

Notes:
For 90° and 180° configurations, add 200mm (7 7/8") if the Call Station is mounted on the tubes.
Standard Upper Landing Drive Configurations (Continued)

**Compact Drive**
The Compact Drive is designed to utilize a minimum amount of space, in some conditions as little as 203mm (8"). Required clearances vary with stair angle, motor orientation, as well as ramp and platform sizes. For further details on this drive system refer to page 20, and for lower landing considerations see pages 13 and 14.

**Reverse Drive**
By reversing the drive box it can be placed closer to the top stair nose, while still maintaining sufficient clearance for loading and unloading. This scenario is ideal for landings between stairs or where walls end at the top of the stairs.

*152mm (6") - 406mm (16")
Dimension variable with stair angle, motor orientation, ramp extensions and platform size.
Alternate Drive Configurations

**Drive on Treads - Flight Beyond Upper Landing**
Designed for intermediate landings with restricted clearances due to narrow hallways, the drive box is mounted on the stair treads. This ensures maximum clearance on the landing for pedestrian traffic.

**Drive Under Floor**
The drive box can be positioned under the floor if sufficient clearances are available. It can be placed on its side or right side up.

**Drive Through Wall at 90° or 180°**
The tubes go through the wall enabling the drive to be stored in a separate room instead of on the upper landing.

**Drive on Shelf**
The drive box can be attached to a shelf that is fastened to a solid wall.
**Drive System**

The drive is always located at the upper end of the guide tubes. It is available in two arrangements, the standard **Drive Box** and the **Compact Drive**. Each drive system is suited to a particular application, with a variety of design configurations to choose from (see pages 17-19 for drive configurations).

### Drive Box

The most common drive arrangement, the Drive Box, uses a **2 H.P. motor** and is always attached to the upper end of the guide tubes.

The drive box has a multitude of design configurations (under the floor through the wall and many more). Please see pages 17-19 for some of the many design options available.

### Mains Power Requirements

Both drive systems require 208-240 VAC single-phase 50/60 Hz. on a dedicated 20 amp. circuit.

### Compact Drive

The compact drive is ideal for lifts with restricted upper landings. It utilizes the same components as the Drive Box however, they are arranged differently. The drive cog and the motor are directly attached to the upper end of the guide tube system, with the electrical components housed in a **Controller Box** that can be located up to 6 meters (20ft) away from the compact drive.

The compact drive is not available outdoors or with stainless steel tubes.
Additional Component Options

The GSL Artira can be equipped with a number of additional safety features:

**Audio Visual Alert**
A wall mounted strobe light and audible chime cautions pedestrians in the vicinity that the lift is in operation. The volume of the audible chime can be adjusted on site. This option is ideal for stairways with 90 degree or 180 degree switchbacks.

**Fire Alarm Integration (Fire Service)**
The fire service feature is designed to interface with a building’s fire safety system and interrupt power to the lift when the fire alarm sounds. This ensures the lift will not obstruct stairway traffic during evacuation. If the lift is in use when the alarm sounds, the lift will only allow the platform to travel to the designated landing with the emergency exit. The passenger must use the constant pressure direction button. Custom versions of this feature are available. Consult Garaventa Lift.

**Auxiliary Power System**
This feature provides backup power to operate the lift when mains power is lost. The self contained battery unit can be located up to 4.5 meters (15’) away from the drive system.

**Box Size:** 597 mm (23 1/2”) high x 444 mm (17 1/2”) wide x 192 mm (7 5/8”) deep

**Outdoor and Extreme Applications**
When located outdoors or in extremely harsh environmental conditions, the lift will require a stainless steel drive box, stainless steel tubes, towers and audio visual alerts (if specified).

A vinyl platform cover is recommended for outdoor applications.

The Compact Drive System is not available for outdoor applications or with stainless steel tubes.

**Note:** In certain indoor applications such as near a swimming pool, an outdoor weather-resistant package may be required.
Guide Tubes

The platform travels on two steel tubes, 51mm (2”) in diameter, that are affixed 600mm (23 5/8”) apart vertically. The location of the tubes on the stairs depends on the platform size and the angle of the stairs. Generally speaking, the lower tube is approximately 500mm (21 5/8”) vertically above the stairs when a 800 x 1220 mm (31 1/2" x 48") platform is used.

Infill Panels (Optional)

These mesh screens are located between the towers of the lift to create a safety barrier.

As an alternative, attachment angles can be welded to the sides of the towers to allow for infill panels of other materials, such as Plexiglas or wood (infill panel material is not supplied by Garaventa Lift).

Horizontal Stabilizer
(back of platform shown)

Stabilizer

The stabilizer tube is placed in horizontal or shallow sections of the lift’s travel. This slotted tube allows a roller, mounted to the back of the platform, to enter and travel through. This roller connection creates a triangle of support to stabilize the platform. The stabilizer is required whenever the lift travels horizontally or at an angle of less than 20°.

Pedestrian Handrails (Optional)

With the installation of the tube system the existing handrails are often obstructed or removed. A third tube, 38mm (1 1/2”) in diameter, can be located between the main guide tubes to serve as a pedestrian handrail. In most applications this handrail can be positioned within the accepted code height range. Due to interference with the platform during travel, full building code compliance may not be possible. Some restrictions apply when used in conjunction with the horizontal stabilizer (see above for further details on the stabilizer). Contact your local Garaventa Lift representative or call the Garaventa Lift Design Hot Line for more information.
Platform Storage at Upper Landing (Optional)

This feature allows the platform to travel along the tubes, while folded, to a storage location off the stairs. A stabilizer tube is required for this application (see page 22 for stabilizer details). Other configurations are possible.

Notes:
Dimensions for Compact Drives are approximate only. Factors affecting the location of the Compact Drive include stair angle, motor orientation and ramp extensions. Contact your local Garaventa Lift representative or call the Garaventa Lift Design Hot Line for more information.

- If the call station is mounted on the tubes, add 200mm (7 7/8") for drive box configurations.
- Dimensions are based on standard platforms with standard ramps. Ramp extensions will increase the clearance dimensions required.
Platform Running Clearances Required For Platform Folded Up

Minimum Overhead Clearances To Meet Code Requirements

Note: This running clearance is for the platform in the folded position only. See dimensions below for overhead requirements for passenger usage and codes.

Minimum Code Requirements:

US Code (ASME A18.1)
1524mm (60") overhead clearance required to any point above the platform deck. Refer to Dimension B in chart on page 25.

Canadian Code (CSA B355)
1500mm (59") overhead clearance required to the centerline of the platform. Refer to Dimension C in chart on page 25.

Important Note: Please consult the local Garaventa Lift representative for local code requirements.
### Platform Running Clearances Required For Platform Folded Up

<table>
<thead>
<tr>
<th>Stair Angle</th>
<th>Platform Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dimension A</td>
</tr>
<tr>
<td></td>
<td>800 x 1220 mm (31 1/2” x 48”)</td>
</tr>
<tr>
<td>Dimension A</td>
<td>mm</td>
</tr>
<tr>
<td>22°</td>
<td>1560</td>
</tr>
<tr>
<td>25°</td>
<td>1690</td>
</tr>
<tr>
<td>30°</td>
<td>1825</td>
</tr>
<tr>
<td>35°</td>
<td>2000</td>
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<tr>
<td>40°</td>
<td>2215</td>
</tr>
<tr>
<td>45°</td>
<td>2460</td>
</tr>
</tbody>
</table>

### Clearances to Meet US Code Requirements (ASME A18.1)

<table>
<thead>
<tr>
<th>Stair Angle</th>
<th>Platform Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dimension B</td>
</tr>
<tr>
<td></td>
<td>800 x 1220 mm (31 1/2” x 48”)</td>
</tr>
<tr>
<td>Dimension B</td>
<td>mm</td>
</tr>
<tr>
<td>22°</td>
<td>2086</td>
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<tr>
<td>25°</td>
<td>2170</td>
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<tr>
<td>40°</td>
<td>2665</td>
</tr>
<tr>
<td>45°</td>
<td>2880</td>
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</table>

### Clearances to Meet Canadian Code Requirements (CSA B355)

<table>
<thead>
<tr>
<th>Stair Angle</th>
<th>Platform Size</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Dimension C</td>
</tr>
<tr>
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<td>800 x 1220 mm (31 1/2” x 48”)</td>
</tr>
<tr>
<td>Dimension C</td>
<td>mm</td>
</tr>
<tr>
<td>22°</td>
<td>1820</td>
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<tr>
<td>25°</td>
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<td>40°</td>
<td>2130</td>
</tr>
<tr>
<td>45°</td>
<td>2245</td>
</tr>
</tbody>
</table>
Attachment Methods

The following are examples of common tube attachment methods. To ensure that the structure can withstand the loads and forces exerted by the lift, please consult a structural engineer.

Tube Attachments
To maintain the vertical separation between the tubes, distance struts and gussets are welded to the tubes. The struts are attached either directly to the wall or to square or rectangular steel support towers.

Please refer to the loading diagram on page 29 for wall and floor reactions.

Solid Walls
- solid concrete, concrete block, wood or steel reinforcement.
This construction is ideal for direct mounting as the struts can be attached directly to the wall. Where extra support is necessary the upper hole in the strut can be fastened through the wall.

Wood Stud Walls
These structures require support towers, along with a 2” x 6” board that is screwed to the studs in the wall, running parallel to the stair flight. The towers must be attached to the board as well as to the floor or stair treads.

When using this attachment method, add the board thickness of 38mm (1 1/2”) to the turning clearances shown on pages 15 & 16.
Note: Never attach a lift to a wall framed with steel studs.

Tower Mount to 2” x 6” Board on Wall
**Freestanding Support Towers**
- *solid concrete stairs, steel pan stairs filled with concrete, 76mm (3") thick wood stairs/landings*

These are required when there are no existing support walls, or when the lift is required to be freestanding.

For concrete-filled steel pan treads, the towers are either bolted through the treads (where access is possible) or attached to a steel stringer for additional support.

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**Open Balustrade - Towers In The Core**
Towers can be positioned within the open stair core when there is insufficient platform turning clearances or if the stairs are too weak for freestanding towers. The towers are fastened to the walls, stringers, or stair edge, as well as to the floors.

Handrails can be removed or special brackets can be used to allow for tube attachment to the towers, without damaging the balustrade.

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Please refer to the loading diagram on page 29 for wall and floor reactions.
**Wall Height Requirements for Direct Mounting**

For prevention of concrete breakout, these required wall heights include 100mm (3 7/8”) of clearance from the top hole of the strut to the top of a concrete wall.

<table>
<thead>
<tr>
<th>Stair Angle</th>
<th>Platform Size</th>
<th>800 x 1220 mm (31 1/2” x 48”)</th>
<th>800 x 1050 mm (31 1/2” x 41 3/8”)</th>
<th>800 x 900 mm (31 1/2” x 35 3/8”)</th>
<th>700 x 750 mm (27 1/2” x 29 1/2”)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>mm in</td>
<td>mm in</td>
<td>mm in</td>
<td>mm in</td>
<td>mm in</td>
</tr>
<tr>
<td>20°</td>
<td>1155 45 1/2</td>
<td>1125 44 1/4</td>
<td>1095 43 1/8</td>
<td>1055 41 1/2</td>
<td></td>
</tr>
<tr>
<td>25°</td>
<td>1230 48 3/8</td>
<td>1190 46 7/8</td>
<td>1155 45 1/2</td>
<td>1100 43 1/4</td>
<td></td>
</tr>
<tr>
<td>30°</td>
<td>1315 51 3/4</td>
<td>1270 50</td>
<td>1225 48 1/4</td>
<td>1155 45 1/2</td>
<td></td>
</tr>
<tr>
<td>35°</td>
<td>1410 55 1/2</td>
<td>1355 53 3/8</td>
<td>1300 51 1/8</td>
<td>1215 47 7/8</td>
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<td>40°</td>
<td>1520 59 7/8</td>
<td>1450 57 1/8</td>
<td>1385 54 1/2</td>
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<tr>
<td>45°</td>
<td>1645 64 3/4</td>
<td>1560 61 3/8</td>
<td>1485 58 1/2</td>
<td>1365 53 3/4</td>
<td></td>
</tr>
</tbody>
</table>

**Minimum Support Structure Height for Direct Mounting on Concrete Wall**
Loading Diagram

Loads are based on an 800 x 1220mm (31 1/2” x 48”) platform:

**Straight Lifts And/Or Lifts With Inside Radius Bends**

- **F1=** 1093 N (246 lbf)
- **F2=** 2942 N (661 lbf)
- **d1=** 296mm (11 5/8”)
- **d2=** 506mm (19 7/8”)

**Moment At The Center Of Tower Or Back Of Direct Mount Strut**

- **M=** F x d (F: Force; d: distance)
- **M=** F1 x (d1 + X) + F2 x (d2 + X)

**Tower Mount**

- X is 92mm (3 5/8”) min. to 330mm (13”) max.

**Direct Mount**

- X is 100mm (4.0”) min. to 140mm (5 1/2”) max.

**Maximum Moment**

- **M=** 3144 Nm (27827 in.lbf) with Tower Mount
- **M=** 2377 Nm (21041 in.lbf) with Direct Mount

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**Lifts With Outside Radius Bends**

- **F1=** 1231 N (277 lbf)
- **F2=** 2942 N (661 lbf)
- **d1=** 341mm (13 3/8”)
- **d2=** 606mm (23 7/8”)

**Moment At The Center Of Tower Or Back Of Direct Mount Strut**

- **M=** F x d (F: Force; d: distance)
- **M=** F1 x (d1 + X) + F2 x (d2 + X)

**Tower Mount**

- X is 92mm (3 5/8”) min. to 330mm (13”) max.

**Direct Mount**

- X is 100mm (4.0”) min. to 140mm (5 1/2”) max.

**Maximum Moment**

- **M=** 3580 Nm (31682 in.lbf) with Tower Mount
- **M=** 2787 Nm (24664 in.lbf) with Direct Mount
Technical Reference of Standard Features

Platform Sizes
800 x 1220mm (31 1/2” x 48”) - ADA Compliant
800 x 1050mm (31 1/2” x 41 3/8”)
800 x 900mm (31 1/2” x 35 3/8”)
700 x 750mm (27 1/2” x 29 1/2”)

Curved Safety Arms
Fully automatic, 32mm (1 1/4”) diameter safety arms, top of arm 948mm (37 3/8”) above platform deck.

Pedestrian Safety Lights
Illuminated tube lighting, located at both ends of the platform deck. Alerts pedestrians that the platform is in motion.

Rated Load
300 kg. (660 lbs.)

Speed
6 meters (20 ft) per minute, slowing to 3 meters (10 ft) through corners and when approaching or departing landings.

Operating Controls
Call Stations (Standard): Equipped with Garaventa Lift Smart-Lite Technology™, constant pressure directional buttons, one touch fold & unfold buttons, 24VDC power, and keyed operation.
Platform (Standard): Equipped with constant pressure switches, Emergency Stop Button (manual reset) and keyless operation

Drive System
Motor: Single phase (supplied by inverter) 2 H.P. drive box at the end of the guide tube system. The drive box can be located away from the upper landing by extending the guide tubes.
Power Requirements: The mains power requirement for both drive systems is 208-240 VAC, 50/60 Hz single phase on a dedicated 20 amp. circuit.
Power Transmission: Roped sprocket using 8mm (3/8”) wire haul rope.
Emergency Use: Ratchet wrench (or handwheel) is provided.

Overspeed Safety
Located at the bottom of the tube assembly containing mechanical overspeed sensor and brake, with electrical drive cut-out protection.

Rail System
Two 51mm (2”) O.D. steel tubes spaced 600mm (23 5/8”) apart vertically.

Finishes
Durable electrostatically applied and baked fine textured Satin Grey paint.
Actual wiring and number of conductors may vary depending on options, quantity of stations and lift configuration.

Some of the options that will affect the wiring include:
- Emergency Stop switches (requires 2 additional conductors to each call station)
- Additional Audio Visual Alerts (requires 3 additional conductors to each A/V)

The following options require field wiring by others:
- Attendant Call
- Fire Service
- Auxiliary Power System
- and possibly others

**Typical Wiring Layout**

- **Mains Power**: 2 Conductors plus ground. Wiring size as per local electrical code specifications, loads and distance from source.

- **Overspeed Safety**: 1 Conductor min. 20 AWG

- **Call Station**: 3 Conductors min. 20 AWG

- **Audio Visual**: 3 Conductors min. 20 AWG

- **Intermediate Call Station**

- **Call Station (Tube Mounted Shown)**

- **Integrated Disconnect Switch**

- **Upper Call Station**

- **Lower Call Station**

- **Overspeed Safety**

- **Audio Visual (Optional Item)**

- **Low Voltage**: All control wiring 24V DC max. 0.5 AMPS

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Design Hot Line: 1-800-663-6556 or +1-604-594-0422