Inclined platform lift for straight stairways
Please note:

Dimensions provided in this Guide are for **REFERENCE ONLY** and should not be used for site preparation or construction.
Xpress II
Table of Contents

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>What is an Inclined Platform Lift?</td>
<td>4</td>
</tr>
<tr>
<td>Finishes</td>
<td>5</td>
</tr>
<tr>
<td>How it Works</td>
<td>6</td>
</tr>
<tr>
<td>Component Identification</td>
<td>7</td>
</tr>
<tr>
<td>Standard Platform Safety Features</td>
<td>8</td>
</tr>
<tr>
<td>Optional Platform Features</td>
<td>9</td>
</tr>
<tr>
<td>Drive System</td>
<td>10</td>
</tr>
<tr>
<td>Guide Rails</td>
<td>10</td>
</tr>
<tr>
<td>Call Stations</td>
<td>10</td>
</tr>
<tr>
<td>Call Station Mounting Options</td>
<td>10</td>
</tr>
<tr>
<td>Outdoor Applications</td>
<td>10</td>
</tr>
<tr>
<td>Additional Safety Options</td>
<td>11</td>
</tr>
<tr>
<td>Platform Projection &amp; Rail Extensions</td>
<td>12</td>
</tr>
<tr>
<td>Attachment Methods</td>
<td>13</td>
</tr>
<tr>
<td>Pedestrian Handrail</td>
<td>14</td>
</tr>
<tr>
<td>Wall Height Requirement for Direct Mounting</td>
<td>16</td>
</tr>
<tr>
<td>Xpress II Loading Diagram</td>
<td>17</td>
</tr>
<tr>
<td>Typical Wiring Layout</td>
<td>18</td>
</tr>
<tr>
<td>Technical Reference of Standard Features</td>
<td>19</td>
</tr>
</tbody>
</table>
What is an Inclined Platform Lift?

An inclined platform lift easily transports a passenger in a wheelchair or someone who has difficulty with 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 Inclined Platform Lift is a versatile, attractive and cost-effective accessibility solution.

Why an Inclined Platform Lift?

No Building Renovations (Modifications)
Inclined platform lifts fit easily into most stairways and do not require specially constructed hoistways.

Preserve Heritage Buildings
Flexibility in design enables Garaventa’s designers to adapt an inclined platform lift to virtually any building site with very little or no structural modifications. The availability of many colors and finishes ensures the lift will blend with its environment and preserve the look of a heritage building.

Save Valuable Floor Space
Floor space within a retail outlet, a restaurant or a school is a valuable commodity. Garaventa Lift Inclined platform lifts utilize very little of this premium space.

Meet ADA Requirements
Garaventa inclined platform lifts are approved in the ADA Accessibility Guidelines as a means to provide public building access when licensed for independent operation. They may also be used as an accessible means of egress when equipped with an auxiliary standby power system.

Design Assistance

With over 35 years of experience, Garaventa Lift can overcome almost any design challenge you face. Please call our Design Hot Line or email us with your accessibility challenge.

1-800-663-6556 or 1+604-594-0422
Email: productinfo@garaventalift.com
**Finishes**

**Standard Color**
The Xpress II rails and loading ramps are made of champagne anodized aluminum. The non-aluminum components of the lift are finished in a durable polyester powder paint coating that is electro statically applied and baked at 210°C (410°F). Garaventa Lift’s standard color, Satin Grey (finetextured), complements a variety of modern and traditional decors (color samples are available upon request). The conveyance cover and upper rail end caps are made of beige colored high quality ABS/PVC.

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

The following list of items will be powder coated to the specified color when a custom color is ordered (for some of these items - see picture below).

(A) upper and lower rails  
(B) pedestrian handrail  
(C) platform grab rail  
(D) curved arms  
(E) sensing plate, call stations, towers (if ordered)  
(F) pedestrian boarding ramps

Optional paint finishes include colors that resemble brass and stainless steel.
**How It Works**

The platform of the Xpress II travels along two custom designed extruded aluminum rails that can be mounted either directly to the wall or to support posts (towers). The upper rail houses a gear rack and a traveling cable while the lower rail provides lateral support. The platform is propelled by means of a carriage mounted rack and pinion drive system.

**Overspeed Safety**

The Overspeed Safety located in the upper carriage on the platform, consists of a mechanical pawl and electrical cutout 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 the Xpress II are:
• Drive System
• Platform Operating Controls
• Platform
• Extruded Aluminum Guide Rails
• Call Stations

Platform

Platform Sizes
The platform is available in three standard sizes, with a rated load of 250 kg. (550 lbs.).
• 800 x 1250mm (31 1/2” x 49 1/4”)
• 800 x 1000mm (31 1/2” x 39 3/8”)
• 750 x 900mm (29 1/2” x 35 1/2”)

For narrower staircases 2 optional platforms are available:
• 725 x 1000mm (28 1/2” x 39 3/8”)
• 675 x 1000mm (26 1/2” x 39 3/8”)

*Curved safety arms not available on 675 x 1000mm platform, powered straight arms can be provided.

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

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

**Emergency Stop Button**
Located on the platform control panel, this large red button is used to stop the lift in an emergency (an illuminated stop button with alarm is also available).

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

i) **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.

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

iii) **Bi-Directional Ramp Sensing**
The ramps are designed to be obstruction sensitive in the direction of travel on the outside of the ramps as well as from within the platform. The internal ramp sensor prevents a wheelchair from being off-center on the platform deck.

**Platform Grab Rail**
This safety feature increases the ease with which passengers may load and unload from the platform.

**Emergency Fold**
In an emergency the platform can be manually folded and will held in the folded position with the supplied durable nylon strap.

**Passenger Restraining Arms**
Fully automatic restraining arms are standard on the Xpress II. Most safety codes require inclined lifts to be equipped with passenger restraining arms.

**Hour Counter**
The hour counter enables the owner to determine the amount of time the Xpress II inclined platform lift has been used. This is a helpful tool for determining preventive maintenance intervals.

**Keyless Platform**
The platform comes standard without a key switch.

**Manual Emergency Lowering**
Included with every lift the lowering hand wheel enables an attendant to lower the platform in case of an emergency. (The hand wheel is not user operable.)
Optional Platform Features

**Folding Seat Assembly**
Designed for use by semi-ambulatory passengers, the folding seat is equipped with a safety belt. This is required in most jurisdictions for installations in buildings used by the public. (ASME A18.1)

**Side Load**
Designed for confined lower landing areas. The side ramp opens simultaneously with the end ramp. This allows the passenger to wheel onto the platform diagonally offering easier access.

**Auto Fold**
This feature will allow the lift to automatically fold, if left unattended for a period of time at a landing. This ensures the stairway remains clear in the event someone forgets to fold the lift. The time delay is adjustable in the field by an authorized Garaventa technician.

**Emergency Battery Lowering**  
*(can not be used with Auxiliary Power System)*
During a power outage this feature allows the lift to be lowered to the bottom landing. The Battery Lowering System is located on the lift inside the platform.

**Auxiliary Power System (Battery Backup)**
This option ensures that the lift continues to operate at maximum load capacity for at least 5 complete cycles when building mains power is removed.

**Illuminated Emergency Stop Button and Alarm**
The emergency stop button can be illuminated and activate an onboard alarm when required by code.

**Change of Direction Time Delay**
In applications where a time delay is required when changing directions, either by code or user preference, the lift can be equipped with a variable time delay.

**Keyed platform**
Protects the lift from unauthorized use.

**Platform lock**
This feature locks the platform and protects the unit from vandalism.

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

The carriage mounted drive system consists of a 3/4 H.P. motor, a gearbox, pinion gear and flexible traveling cable.

Mains Power

The mains power requirement is 208 to 240VAC, single phase, on a dedicated circuit (North America: 20 ampere, Europe: 16 ampere). A lockable supplementary mains disconnect switch is mounted at the end of the upper rail.

Guide Rails

Two extruded aluminum extrusions make up the guide rail assembly. The upper rail houses the rack that the platform’s pinion gear utilizes for travel. The platform is mechanically attached to this upper rail. The lower rail is used as a guide track for the rollers of the lower carriage assembly. The upper and lower rail heights are based on the stair angle and the platform size. For more information on rail heights see page 16.

Call Stations

Each landing is equipped with a call station. The call station enables the user to unfold the platform with a touch of a button. If the platform is not at the required landing the user simply presses the directional button to bring the platform to their landing. Call stations are available hard wired to the lift or wireless.

Optional Call Station Features

To meet customer or local code requirements an optional Emergency Stop Button and an Attendant Call Switch can be added to the call station (wired call stations only).

Keyless Operation

This feature allows the user to operate the lift without a key. The standard key switches on the call stations are removed and plugged.

Call with Platform Open (Confirm with local code authorities -adjustable in field)

This option is typically used when the lift can not be called from a call station to overhead clearance issues. With this option, the lift travels with the arms in the horizontal position and platform folded down only. This option which is adjustable in the field can be enabled by a jumper setting on site. An appropriate label (#37033) has to be ordered, which replaces the regular “operating instructions” manual.

Remote Platform Fold

This feature allows the platform to be folded up from any call station should the platform be left unfolded at a landing.

Call Station Mounting Options

The call stations can be mounted on the wall (surface or flush mounted). Wired flush mount call stations can be pre-wired during the construction or building renovations resulting in a cleaner appearance with no surface wiring. The use of wireless call stations also eliminates the need for surface wiring. The optional flush call station box dimensions are:

- Length: 185 mm (7 ¼”)
- Width: 115 mm (4 ½”)
- Depth: 52 mm (2”)

Outdoor Applications

Because most components of the Xpress II are made of anodized aluminum they are already prepared for outdoor use. Any components that are not made of aluminum are zinc plated. If the Xpress II is to be used outdoors or in an extreme environment (e.g. near swimming pools, hot tubs, chemicals, etc.) it is necessary to use stainless steel fasteners and support towers (if required, see Attachment Methods). An outdoor platform cover can be purchased (optional) to assist in protection. Consult with your local authorized Garaventa Lift representatives concerning outdoor installations in severe weather areas.
Additional Safety Options

The Xpress II can be equipped with a number of additional safety features:

**Audio Visual Alert**
When the lift is in use, a wall mounted strobe light and audible chime cautions pedestrians in the vicinity that the lift is in operation (as shown above). The volume of the audible chime can be adjusted on site.

**Fire Alarm Integration (Fire Service)**
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 passenger to use the constant pressure direction button to travel to the designated landing with the emergency exit.

**Attendant Remote Control**
The platform can be equipped with an optional Attendant Remote Control that overrides the Directional Buttons during attendant operation. The platform remote control unit can be removed when not required.

**Auxiliary Power (Battery not included)**
This feature (as shown above) ensures that the lift continues to operate during a power outage. The self-contained battery unit can be located up to 4.5 meters (15’) away from the drive system and will power the lift up to one hour at full capacity.

Box Size:
597 mm (23 1/2”) H x 444 mm (17 1/2”) W x 192 mm (7 5/8”) D
# Minimum Site Dimension Requirements

## Platform Projection and Rail Extensions

<table>
<thead>
<tr>
<th>Stair Angle</th>
<th>10°</th>
<th>15°</th>
<th>20°</th>
<th>25°</th>
<th>30°</th>
<th>35°</th>
<th>40°</th>
<th>45°</th>
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</thead>
<tbody>
<tr>
<td><strong>Dimension A - Platform Projection</strong></td>
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<td>800 x 1250mm Platform (31 1/2&quot; x 49 1/4&quot;)</td>
<td>2863</td>
<td>2399</td>
<td>2163</td>
<td>2021</td>
<td>1924</td>
<td>1854</td>
<td>1799</td>
<td>1756</td>
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<tr>
<td>(2863 112 3/4)</td>
<td>94 1/2</td>
<td>85 1/4</td>
<td>79 5/8</td>
<td>75 7/8</td>
<td>73</td>
<td>70 7/8</td>
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<td>1918</td>
<td>1776</td>
<td>1679</td>
<td>1609</td>
<td>1554</td>
<td>1511</td>
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<tr>
<td>(2618 103 1/8)</td>
<td>84 3/4</td>
<td>75 1/2</td>
<td>69 7/8</td>
<td>66 1/8</td>
<td>63 3/8</td>
<td>61 1/8</td>
<td>59 1/2</td>
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<tr>
<td>750 x 900mm Platform (29 1/2&quot; x 35 1/2&quot;)</td>
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<td>2052</td>
<td>1818</td>
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<tr>
<td>(2502 98 1/2)</td>
<td>80 3/4</td>
<td>71 5/8</td>
<td>66</td>
<td>62 1/4</td>
<td>59 1/2</td>
<td>57 1/4</td>
<td>55 5/8</td>
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<td><strong>Dimension B - Rail Extension</strong></td>
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<td>1976</td>
<td>1745</td>
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<td>1301</td>
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<tr>
<td>(2430 95 5/8)</td>
<td>77 3/4</td>
<td>68 3/4</td>
<td>63 1/8</td>
<td>60 3/4</td>
<td>59 1/4</td>
<td>56 1/8</td>
<td>53 1/2</td>
<td>51 1/4</td>
</tr>
<tr>
<td>750 x 900mm Platform (29 1/2&quot; x 35 1/2&quot;)</td>
<td>2365</td>
<td>1924</td>
<td>1695</td>
<td>1554</td>
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<td>1376</td>
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<td>1251</td>
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<tr>
<td>(2365 93 1/8)</td>
<td>75 3/4</td>
<td>66 3/4</td>
<td>61 1/4</td>
<td>57 1/4</td>
<td>54 1/4</td>
<td>51 3/4</td>
<td>51 1/4</td>
<td>49 1/4</td>
</tr>
</tbody>
</table>

**Note:** These dimensions are based on a first riser height of 190mm (7 1/2”). The platform projection and rail extension will be shorter than indicated for shallow stairs below 25° as they may have shorter first risers, please consult Garaventa Lift.

## Stair Width Clearance for Different Attachment Methods

<table>
<thead>
<tr>
<th>Clearance Width Dimensions</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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</thead>
<tbody>
<tr>
<td>Rail Protrusion</td>
<td>Platform Folded</td>
<td>Platform Unfolded</td>
<td>Side Load Ramp</td>
<td>Stair Width</td>
<td></td>
</tr>
<tr>
<td>mm</td>
<td>in</td>
<td>mm</td>
<td>in</td>
<td>mm</td>
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</table>

### 800 x 1250 mm (31 1/2” x 49 1/4”) & 800 x 1000 mm (31 1/2” x 39 3/8”) Platforms

| towers | 81 | 145 | 3 1/4 | 5 3/4 | 260 | 325 | 10 1/4 | 12 3/4 | 1020 | 1084 | 40 1/8 | 42 5/8 | 1175 | 1239 | 46 1/4 | 48 3/4 | 1040 | 1104 | 41 | 43 1/2 |

*750 x 900 mm (29 1/2” x 35 1/2”) Platform

| towers | 81 | 145 | 3 1/4 | 5 3/4 | 299 | 364 | 11 3/4 | 14 3/8 | 927 | 992 | 36 1/2 | 39 | N/A | N/A | N/A | 947 | 1012 | 37 1/4 | 39 7/8 |

### 725 x 1000 mm (28 1/2” x 39 3/8”) Platform

| towers | 81 | 145 | 3 1/4 | 5 3/4 | 260 | 325 | 10 1/4 | 12 3/4 | 945 | 1009 | 37 1/4 | 39 3/4 | 1100 | 1164 | 43 1/4 | 45 7/8 | 965 | 1029 | 38 | 40 1/2 |

### 675 x 1000 mm (26 1/2” x 39 3/8”) Platform

| towers | 81 | 145 | 3 1/4 | 5 3/4 | 260 | 325 | 10 1/4 | 12 3/4 | 895 | 959 | 35 1/4 | 37 3/4 | 1050 | 1114 | 41 3/8 | 43 7/8 | 915 | 979 | 36 | 38 1/2 |
Attachment Methods

The extruded aluminum guide and support rails can be directly mounted to the wall or attached to steel support towers. There are various attachment methods used to support the Xpress II. For direct mount lifts, the wall must be able to withstand the loads and forces shown on the Loading Diagram (p.17).

Direct Mount Anchored to Solid Walls

- Solid concrete (152mm (6”) thick minimum)
- Concrete block (203mm (8”) minimum without reinforcement or 152mm (6”) minimum with reinforcement)
- Wood support posts located in wall (4” x 6” minimum). Locations determined by Garaventa.
- Steel support posts located in the wall. 76mm x 76mm x 6mm wall / (3” x 3” x 1/4”) minimum. Locations determined by Garaventa.

Direct Mount Anchored to Wood Stud or Thin Block Walls

The upper rail must be attached to a 2” x 8” board that is secured to the wall. For the lower rail, a 2” x 4” board can be used. Each board must be fastened into every available wall stud with minimum two screw fasteners.

Note: Not Suitable for Steel Stud Applications.

Freestanding Support Towers

Required where no support walls exist, or when the lift must be located away from a wall structure.
- Solid concrete stairs/landings
- Wood stairs/landings over 76.2mm (3”) thick
- Concrete steel pan treads (towers must be secured back to the stringer with brackets for extra support)

Open Balustrade (Towers in the core)

In situations where the stairs cannot support freestanding towers and where direct mounting is not feasible, it maybe possible to install support towers in the open core. This may also be a solution where there is insufficient clearance with towers on the treads. The towers are fastened to the floor and secured to walls or stringers.
Pedestrian Handrail

A pedestrian handrail can be mounted to the top of the upper rail section to assist pedestrians using the stairs. (Due to platform interference during travel, the handrail may not fully comply with building code requirements.)

**Pedestrian Handrail Heights**

<table>
<thead>
<tr>
<th>Stair Angle</th>
<th>10°</th>
<th>15°</th>
<th>20°</th>
<th>25°</th>
<th>30°</th>
<th>35°</th>
<th>40°</th>
<th>45°</th>
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</thead>
<tbody>
<tr>
<td>Dimension A - Handrail Height</td>
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<tr>
<td>800 x 1250mm Platform (31 1/2&quot; x 49 1/4&quot;)</td>
<td>800</td>
<td>31 1/2</td>
<td>866</td>
<td>34 1/8</td>
<td>941</td>
<td>37</td>
<td>1020</td>
<td>40 1/8</td>
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<tr>
<td>800 x 1000mm Platform (31 1/2&quot; x 39 3/8&quot;)</td>
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<td>30 5/8</td>
<td>833</td>
<td>32 3/4</td>
<td>895</td>
<td>35 1/4</td>
<td>962</td>
<td>37 7/8</td>
</tr>
<tr>
<td>750 x 900mm Platform (29 1/2&quot; x 35 1/2&quot;)</td>
<td>770</td>
<td>30 3/8</td>
<td>820</td>
<td>32 3/8</td>
<td>876</td>
<td>34 1/2</td>
<td>939</td>
<td>37</td>
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</table>

**Overhead Clearances Required**

<table>
<thead>
<tr>
<th>Stair Angle</th>
<th>10°</th>
<th>15°</th>
<th>20°</th>
<th>25°</th>
<th>30°</th>
<th>35°</th>
<th>40°</th>
<th>45°</th>
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</thead>
<tbody>
<tr>
<td>Dimension B - Overhead Clearance Platform Folded Up (No Arms)</td>
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<tr>
<td>800 x 1250mm Platform (31 1/2&quot; x 49 1/4&quot;)</td>
<td>1427</td>
<td>56 1/8</td>
<td>1546</td>
<td>60 7/8</td>
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<td>1811</td>
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<td>58 3/8</td>
<td>1588</td>
<td>62 1/2</td>
<td>1701</td>
<td>67</td>
</tr>
<tr>
<td>750 x 900mm Platform (29 1/2&quot; x 35 1/2&quot;)</td>
<td>1317</td>
<td>51 7/8</td>
<td>1374</td>
<td>54 1/8</td>
<td>1440</td>
<td>56 3/4</td>
<td>1516</td>
<td>59 3/4</td>
</tr>
</tbody>
</table>

**Dimension C - Overhead Clearance Platform Folded Up (With Arms) |

| Dimension D - US Code for Overhead Clearance (1524mm (60") above Platform) |
|--------------|------|------|------|------|------|------|------|------|
| 800 x 1250mm Platform (31 1/2" x 49 1/4") | 1917 | 75 1/2 | 2031 | 80 | 2152 | 84 3/4 | 2281 | 89 3/4 |
| 800 x 1000mm Platform (31 1/2" x 39 3/8") | 1876 | 73 7/8 | 1968 | 77 1/2 | 2066 | 81 3/8 | 2172 | 85 1/2 |
| 750 x 900mm Platform (29 1/2" x 35 1/2") | 1863 | 73 3/8 | 1950 | 76 3/4 | 2043 | 80 1/2 | 2145 | 84 1/2 |

**Dimension E - Canadian Code for Overhead Clearance (1500mm (59") above Centerline of Platform) |

| 800 x 1250mm Platform (31 1/2" x 49 1/4") | 1713 | 67 1/2 | 1774 | 69 7/8 | 1838 | 72 3/8 | 1907 | 75 1/8 |
| 800 x 1000mm Platform (31 1/2" x 39 3/8") | 1691 | 66 5/8 | 1740 | 68 1/2 | 1792 | 70 1/2 | 1848 | 72 3/4 |
| 750 x 900mm Platform (29 1/2" x 35 1/2") | 1676 | 66 | 1723 | 67 7/8 | 1770 | 69 3/4 | 1822 | 71 3/4 |

Design Hot Line: 1-800-663-6556 or +1-604-594-0422
Overhead Clearances required for platform folded up (without arms)

Overhead Clearances to meet US Code Requirements (ASME A18.1)

1524mm (60") overhead clearance required to any point above the platform deck. Refer to Dimension D in the Overhead Clearances chart.

Note: Consult the local Garaventa Lift representative for status for ASME A18.1 safety code requirements.

Overhead Clearances required for platform folded up (with arms)

Overhead Clearances to meet Canadian Code Requirements (CSA B355-2009)

1500mm (59") overhead clearance required to centerline of the platform. Refer to Dimension E in the Overhead Clearances chart.
**Wall Height Requirement for Direct Mounting**

*K* dimension is to top of upper rail for placement of 2"x8" (if required). True wall height is dimension *K* plus 35 mm (1 3/8").

![Diagram of wall height requirement](image)

<table>
<thead>
<tr>
<th>Stair Angle</th>
<th>10°</th>
<th>15°</th>
<th>20°</th>
<th>25°</th>
<th>30°</th>
<th>35°</th>
<th>40°</th>
<th>45°</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimension K - Min. Wall Height for Wall Mount</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>800 x 1250mm Platform (31 1/2&quot; x 49 1/4&quot;)</td>
<td>762</td>
<td>827</td>
<td>900</td>
<td>975</td>
<td>1064</td>
<td>1162</td>
<td>1276</td>
<td>1410</td>
</tr>
<tr>
<td>800 x 1000mm Platform (31 1/2&quot; x 39 3/8&quot;)</td>
<td>740</td>
<td>794</td>
<td>853</td>
<td>918</td>
<td>991</td>
<td>1074</td>
<td>1171</td>
<td>1285</td>
</tr>
<tr>
<td>750 x 900mm Platform (29 1/2&quot; x 35 1/2&quot;)</td>
<td>709</td>
<td>1374</td>
<td>812</td>
<td>873</td>
<td>941</td>
<td>1019</td>
<td>1110</td>
<td>1217</td>
</tr>
<tr>
<td><strong>Dimension L - Upper Rail Height</strong></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>800 x 1250mm Platform (31 1/2&quot; x 49 1/4&quot;)</td>
<td>727</td>
<td>2031</td>
<td>865</td>
<td>940</td>
<td>1029</td>
<td>1127</td>
<td>1241</td>
<td>1375</td>
</tr>
<tr>
<td>800 x 1000mm Platform (31 1/2&quot; x 39 3/8&quot;)</td>
<td>705</td>
<td>1968</td>
<td>818</td>
<td>883</td>
<td>956</td>
<td>1039</td>
<td>1136</td>
<td>1250</td>
</tr>
<tr>
<td>750 x 900mm Platform (29 1/2&quot; x 35 1/2&quot;)</td>
<td>697</td>
<td>1950</td>
<td>800</td>
<td>860</td>
<td>927</td>
<td>1004</td>
<td>1094</td>
<td>1200</td>
</tr>
<tr>
<td><strong>Dimension M - Lower Rail Height</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>800 x 1250mm Platform (31 1/2&quot; x 49 1/4&quot;)</td>
<td>245</td>
<td>306</td>
<td>372</td>
<td>442</td>
<td>520</td>
<td>606</td>
<td>705</td>
<td>818</td>
</tr>
<tr>
<td>800 x 1000mm Platform (31 1/2&quot; x 39 3/8&quot;)</td>
<td>222</td>
<td>273</td>
<td>327</td>
<td>384</td>
<td>448</td>
<td>518</td>
<td>599</td>
<td>693</td>
</tr>
<tr>
<td>750 x 900mm Platform (29 1/2&quot; x 35 1/2&quot;)</td>
<td>215</td>
<td>260</td>
<td>361</td>
<td>418</td>
<td>483</td>
<td>557</td>
<td>557</td>
<td>643</td>
</tr>
</tbody>
</table>
Xpress II Loading Diagram

- **F1**: 121 kg (center of gravity of conveyance)
  - 1179 N (265 lbf)

- **F2**: 250 kg (max. loading capacity)
  - 2446 N (550 lbf)

- **d1**: 362mm (15.5”)

- **d2**: 678mm (26.7”)

Moment at center of tower

\[ M = F1 \times d1 + F2 \times d2 \]

Maximum Moment

\[ M = 2086 \text{kNmm} \]

\[ 18046 \text{ in.lbf} \]

**NOTE**: Consult with a structural engineer or a local professional to confirm structural suitability.

Loading Calculations are based on a 1250 platform
Typical Wiring Layout

Actual wiring and number of conductors may vary depending on options. 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 2 additional conductors to each A/V)
- Attendant Call (requires 2 additional conductors to each call station)

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

*Add 2 additional conductors each for Attendant Call (optional) & Emergency Stop Button (optional)
Technical Reference of Standard Features

**Platform Sizes:**
800 x 1250mm (31 1/2” x 49 1/4”) – ADA compliant
800 x 1000mm (31 1/2” x 39 3/8”)
750 x 900mm (29 1/2” x 35 1/2”)
725 x 1000mm (28 1/2” x 39 3/8”) – optional
675 x 1000mm (26 1/2” x 39 3/8”) – optional

**Curved Safety Arms:**
Fully automatic, 32mm (1 1/4”) diameter safety arms surround the passenger on the platform.

**Rated Load:**
250 kg. (550 lbs.)

**Speed:**
Up: 4m (13ft) per minute, Down: 5m (16ft) per minute

**Operating Controls:**
Call Stations (Std): Continuous pressure directional buttons, one touch fold & unfold buttons, 24VDC power (wired) or 9V DC (wireless), and keyed operation.

Platform (Std): Continuous pressure buttons, 24VDC power, Emergency Stop button (manual reset) and keyed operation.

**Drive System:**
Motor:
0.75 H.P. located on the platform

**Power Requirements:**
208-240 VAC, 50/60 HZ single phase on a dedicated circuit (North America: 20 ampere, Europe: 16 ampere).

**Power Transmission:**
Rack and pinion.

**Emergency Use:**
A hand wheel is provided. Auxiliary power system available.

**Overspeed Safety:**
Mechanical overspeed sensor and brake with electrical drive cut-out protection.

**Rail System:**
Champagne anodized aluminum extrusion with integrally mounted zinc plated gear.

This lift is built in accordance to ASME A18.1, CSA B44.1/ ASME A17.5, CSA B355, ASME A17.1 A variety of optional features and custom modifications are available. For more information about custom features not included in the Xpress II Design and Planning Guide and code requirements for your area consult your local Garaventa Lift representative or Garaventa Lift.