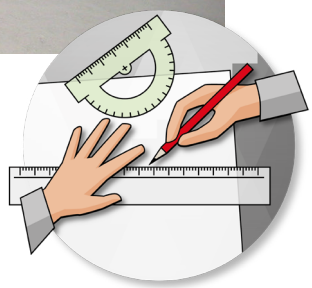
GARAVENTA LIFT

Xpress II

Design and Planning Guide



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 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 40 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

Finishes

Standard Color
The Xpress II rails and loading ramps are painted extruded 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, Silver Moon, complements a variety of modern and traditional decors (color samples are available upon request). The conveyance cover and upper rail end caps are Silver Moon 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

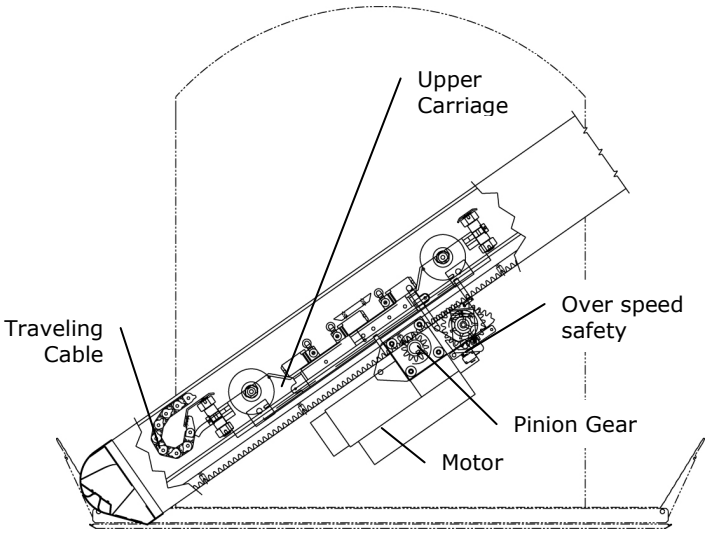
Optional paint colores are available

Standard Color

Custom Color Example

How It Works

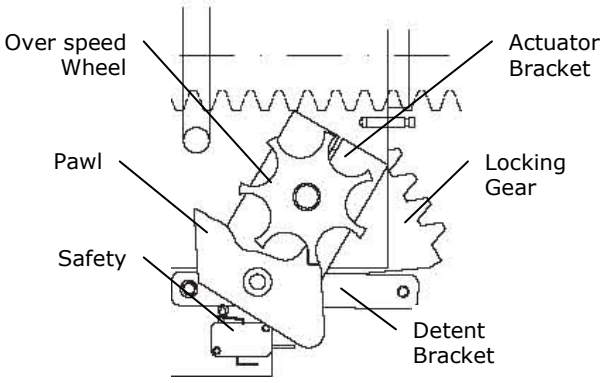
The platform of the Xpress II travels along two custom designed extruded aluminum rails that can be mounted either directly to the wall or to support posts (towers). The upper rail houses a gear rack and a traveling cable while the lower rail provides lateral support. The platform is propelled by means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



Platform Drive

Overspeed Safety

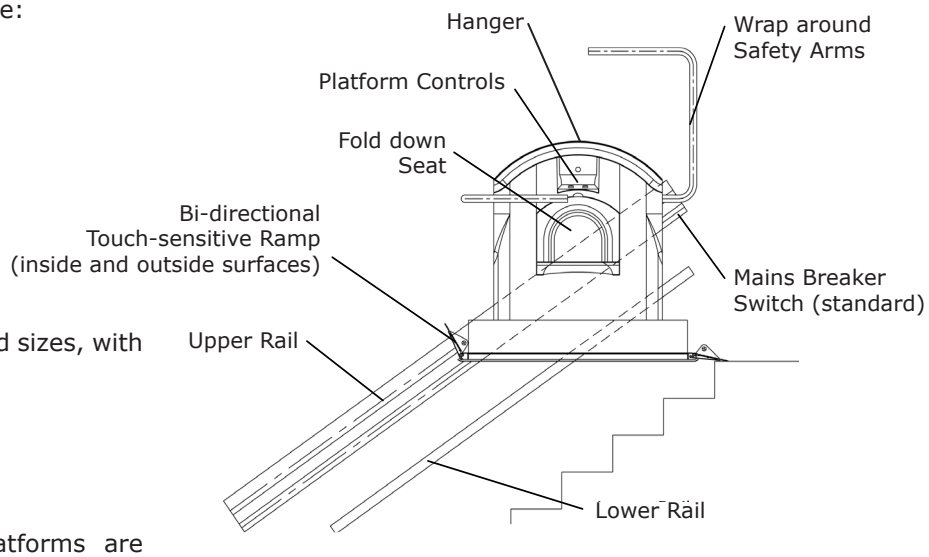
The Overspeed Safety located in the upper carriage on the platform, consists of a mechanical pawl and electrical cutout switch. In the unlikely event that the lift should descend too quickly, both the mechanical and electrical safety will activate simultaneously and stop the platform from moving.



Overspeed Safety

Component Identification

The main components of the Xpress II are:
- **Drive System**
- **Platform Operating Controls**
- **Platform**
- **Extruded Aluminum Guide Rails**
- **Call Stations**



Direct Mount Configuration System

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:

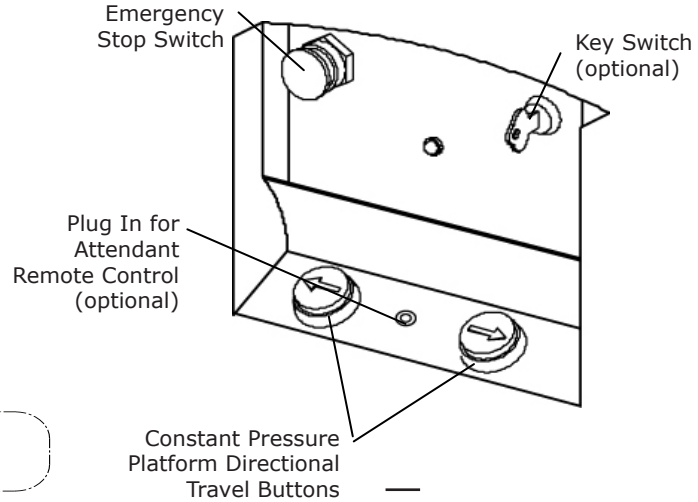
- 725 x 1000mm (28 1/2" x 39 3/8")
- 675 x 1000mm (26 1/2" x 39 3/8")

*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).

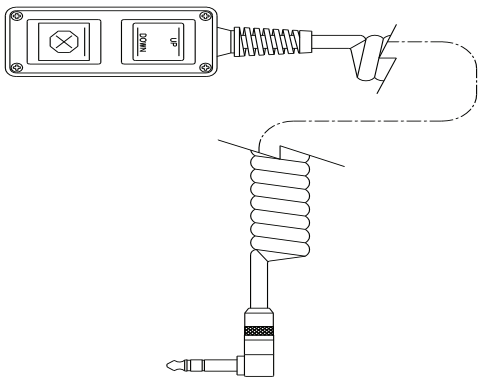
Attendant Remote Control Unit
The platform can be equipped with an optional Attendant Remote Control that overrides the Directional Travel Buttons during attendant operation. The remote control unit can be removed when not required.

Platform Control Panel



OR

Attendant
Remote



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.

ii) 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.

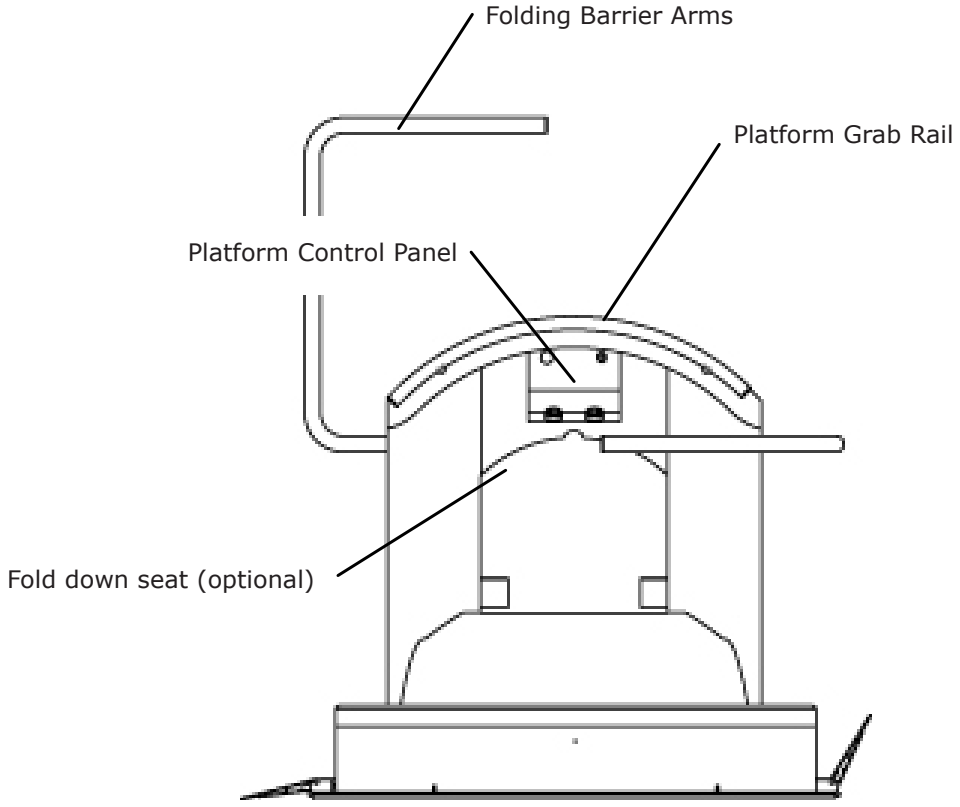
Emergency Fold
In an emergency the platform can be manually folded and will held in the folded position with the supplied durable nylon strap.

Passenger Restraining Arms
Fully automatic restraining arms are required on the Xpress II.

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.

UPS Auxiliary Power Option (3000 VA)
If you select this option, an Uninterruptible Power Supply (UPS) will be provided with the lift. This optional feature enables the lift to operate normally during a power outage.
Note that the UPS is installed in a secure enclosure.

- The UPS can be installed up to 4.5 meters (15 feet) from the drive system.
- Enclosure dimensions: 600 mm (23.6”) high × 600 mm (23.6”) wide × 300 mm (11.8”) deep.
- This option requires a disconnect switch with an auxiliary contact.
- This option is allowed for indoor lifts only.

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.

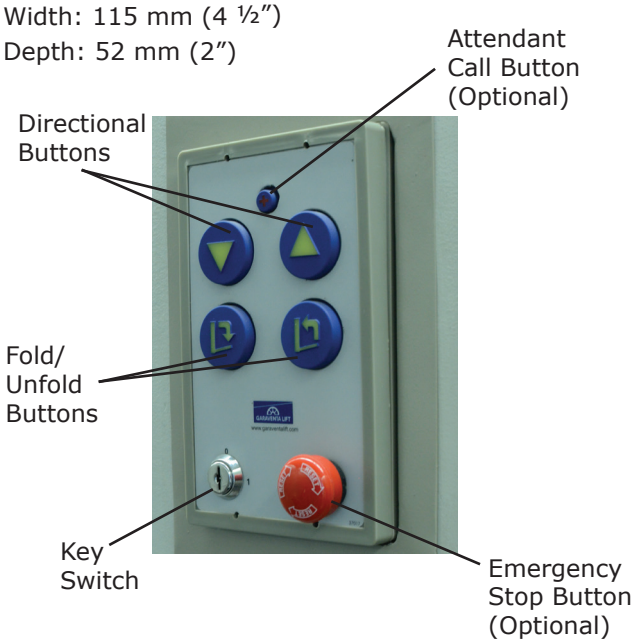
Call with Platform Open (Confirm with local code authorities -adjustable in field)
This option is typically used when the lift can not be called from a call station to overhead clearance issues. With this option, the lift travels with the arms in the horizontal position and platform folded down only. 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 of painted extruded 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

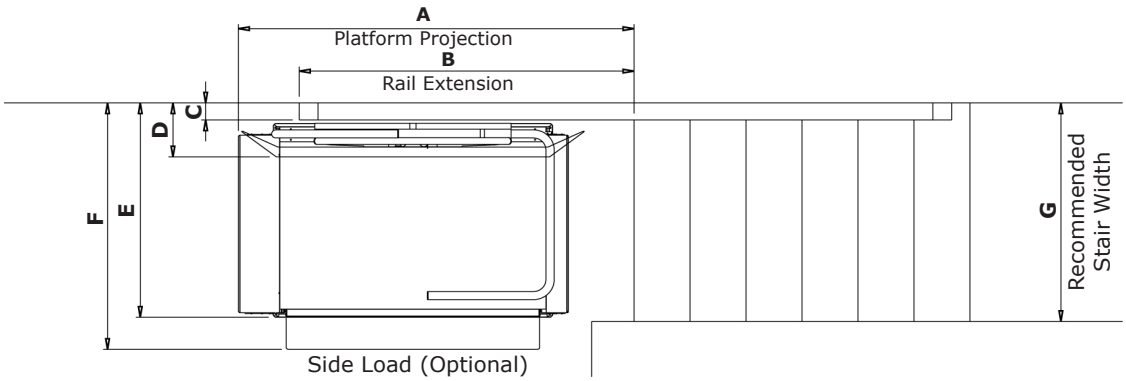
Xpress II has a number of additional safety features:

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.

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.

Minimum Site Dimension Requirements



Platform Projection and Rail Extensions

Stair Angle	10°	15°	20°	25°	30°	35°	40°	45°
Dimension A - Platform Projection								
800 x 1250mm Platform (31 1/2" x 49 1/4")	2863 112 3/4	2399 94 1/2	2163 85 1/4	2021 79 5/8	1924 75 7/8	1854 73	1799 70 7/8	1756 69 1/4
800 x 1000mm Platform (31 1/2" x 39 3/8")	2618 103 1/8	2154 84 3/4	1918 75 1/2	1776 69 7/8	1679 66 1/8	1609 63 3/8	1554 61 1/8	1511 59 1/2
750 x 900mm Platform (29 1/2" x 35 1/2")	2502 98 1/2	2052 80 3/4	1818 71 5/8	1676 66	1579 62 1/4	1509 59 1/2	1454 57 1/4	1411 55 5/8
Dimension B - Rail Extension								
800 x 1250mm Platform (31 1/2" x 49 1/4")	2553 101 1/8	2101 83 3/8	1870 74 1/4	1729 68 3/4	1629 64 3/4	1551 61 3/4	1485 59 1/8	1426 56 3/4
800 x 1000mm Platform (31 1/2" x 39 3/8")	2430 95 5/8	1976 77 3/4	1745 68 3/4	1604 63 1/8	1504 59 1/4	1426 56 1/8	1360 53 1/2	1301 51 1/4
750 x 900mm Platform (29 1/2" x 35 1/2")	2365 93 1/8	1924 75 3/4	1695 66 3/4	1554 61 1/4	1454 57 1/4	1376 54 1/4	1310 51 5/8	1251 49 1/4

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 25º as they may have shorter first risers, please consult Garaventa Lift.

Stair Width Clearance for Different Attachment Methods

Clearance Width Dimensions	C Rail Protrusion		D Platform Folded		E Platform Unfolded		F Side Load Ramp		G Stair Width	
	mm	in	mm	in	mm	in	mm	in	mm	in
800 x 1250 mm (31 1/2" x 49 1/4") & 800x 1000 mm (31 1/2" x 39 3/8") Platforms										
Direct Mount 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**										
Direct Mount 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 N/A	947 1012	37 1/4 39 7/8
725 x 1000 mm (28 1/2" x 39 3/8") Platform										
Direct Mount 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										
Direct Mount 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

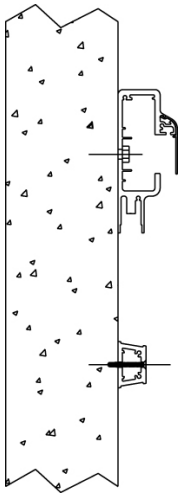
The upper rail must be attached to a 2” x 8” board that is secured to the wall. For the lower rail, a 2” x 4” board can be used. Each board must be fastened into every available wall stud with minimum two screw fasteners.
Note: Not Suitable for Steel Stud Applications.

Freestanding Support Towers

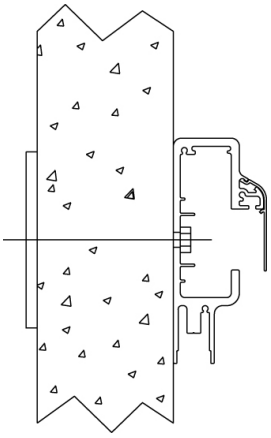
Required where no support walls exist, or when the lift must be located away from a wall structure.
- Solid concrete stairs/landings
- Wood stairs/landings over 76.2mm (3”) thick
- Concrete steel pan treads (towers must be secured back to the stringer with brackets for extra support)

Open Balustrade (Towers in the core)

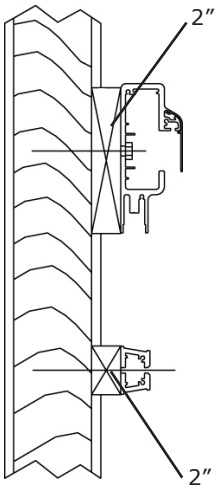
In situations where the stairs cannot support freestanding towers and where direct mounting is not feasible, it maybe possible to install support towers in the open core. This may also be a solution where there is insufficient clearance with towers on the treads. The towers are fastened to the floor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



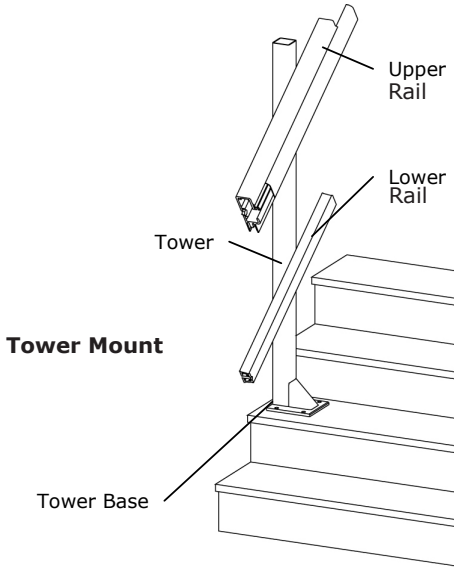
Direct Mount to Wall



Thin Structural Wall (Through-Bolting may be suitable)

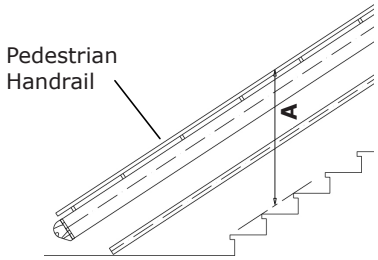


Direct Mount to 2”x8” and 2”x4” Boards on Wood Stud or Thin Block Wall



Tower Mount

Pedestrian Handrail



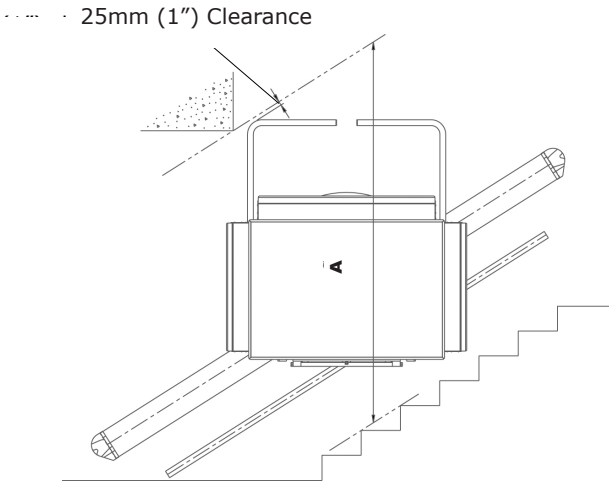
A pedestrian handrail can be mounted to the top of the upper rail section to assist pedestrians using the stairs. *(Due to platform interference during travel, the handrail may not fully comply with building code requirements.)*

Pedestrian Handrail Heights

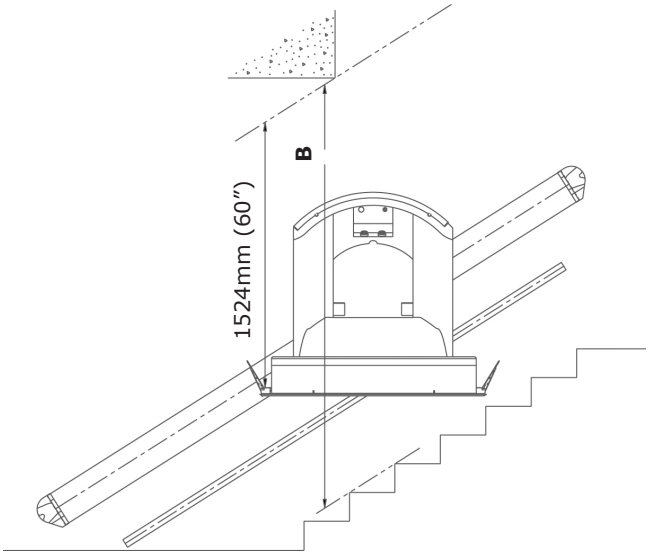
Stair Angle	10°	15°	20°	25°	30°	35°	40°	45°
Dimension A - Handrail Height								
800 x 1250mm Platform (31 1/2" x 49 1/4")	800 31 1/2	866 34 1/8	941 37	1020 40 1/8	1112 43 3/4	1215 47 7/8	1335 52 1/2	1477 58 1/8
800 x 1000mm Platform (31 1/2" x 39 3/8")	778 30 5/8	833 32 3/4	895 35 1/4	962 37 7/8	1039 40 7/8	1127 44 3/8	1230 48 3/8	1352 53 1/4
750 x 900mm Platform (29 1/2" x 35 1/2")	770 30 3/8	820 32 3/8	876 34 1/2	939 37	1010 39 3/4	1092 43	1188 46 3/4	1302 51 1/4

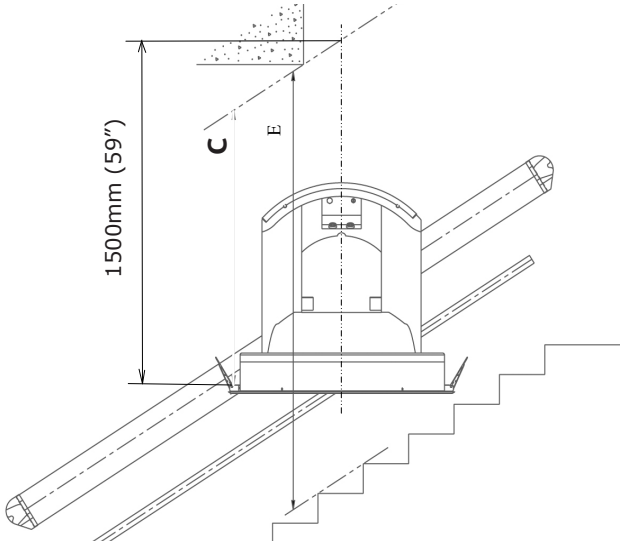
Overhead Clearances Required

Stair Angle	10°	15°	20°	25°	30°	35°	40°	45°
Dimension A- Overhead Clearance Platform Folded Up (With Arms)								
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	2426 95 1/2	2584 101 3/4	2765 108 7/8	2977 117 1/4
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	2288 90 1/8	2419 95 1/4	2568 101 1/8	2742 108
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	2256 88 7/8	2380 93 3/4	2524 99 3/8	2691 106
Dimension B - US Code for Overhead Clearance (1524mm (60") above Platform)								
800 x 1250mm Platform (31 1/2" x 49 1/4")	1845 72 5/8	1961 77 1/4	2084 82	2215 87 1/4	2358 92 7/8	2516 99	2696 106 1/8	2904 114 3/8
800 x 1000mm Platform (31 1/2" x 39 3/8")	1803 71	1898 74 3/4	1998 78 5/8	2105 82 7/8	2222 87 1/2	2351 92 1/2	2498 98 3/8	2669 105 1/8
750 x 900mm Platform (29 1/2" x 35 1/2")	1781 70 1/8	1867 73 1/2	1958 77 1/8	2056 81	2162 85 1/8	2279 89 3/4	2413 95	2569 101 1/8
Dimension C - 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	1982 78 3/8	2134 84	2329 91 3/4	2558 100 3/4
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	1909 75 1/8	1977 77 7/8	2131 83 7/8	2323 91 1/2
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	1878 74	1940 76 3/8	2012 79 1/4	2095 82 1/2



Overhead Clearances required for platform folded up (with 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.

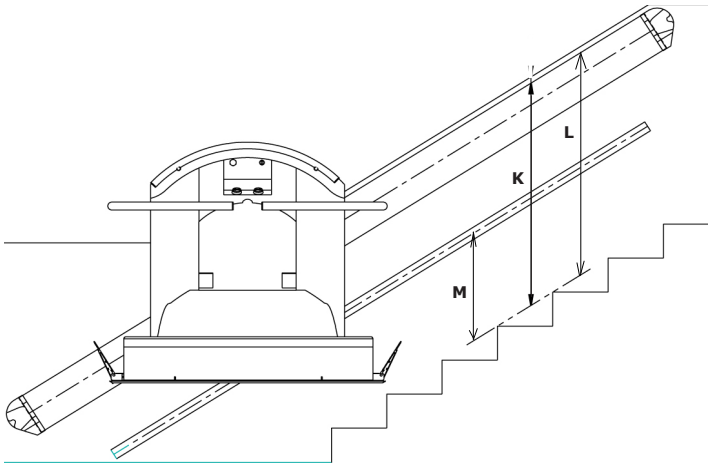
Note: Consult the local Garaventa Lift representative for status for ASME A18.1 safety code requirements.

Overhead Clearances 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”).



Stair Angle	10°	15°	20°	25°	30°	35°	40°	45°
Dimension K - Min. Wall Height for Wall Mount								
800 x 1250mm Platform (31 1/2” x 49 1/4”)	762 30	827 32 1/2	900 35 3/8	975 38 3/8	1064 41 7/8	1162 45 3/4	1276 50 1/4	1410 55 1/2
800 x 1000mm Platform (31 1/2” x 39 3/8”)	740 29 1/8	794 31 1/4	853 33 5/8	918 36 1/8	991 339	1074 42 1/4	1171 46 1/8	1285 50 5/8
750 x 900mm Platform (29 1/2” x 35 1/2”)	709 28	1374 54 1/8	812 32	873 34 3/8	941 37	1019 40 1/8	1110 43 3/4	1217 48
Dimension L - Upper Rail Height								
800 x 1250mm Platform (31 1/2” x 49 1/4”)	727 28 5/8	2031 80	865 34	940 37	1029 40 1/2	1127 44 3/8	1241 48 7/8	1375 54 1/8
800 x 1000mm Platform (31 1/2” x 39 3/8”)	705 27 3/4	1968 77 1/2	818 32 1/4	883 34 3/4	956 37 5/8	1039 40 7/8	1136 44 3/4	1250 49 1/4
750 x 900mm Platform (29 1/2” x 35 1/2”)	697 27 1/2	1950 76 3/4	800 31 1/2	860 33 7/8	927 36 1/2	1004 39 1/2	1094 43 1/8	1200 47 1/4
Dimension M - Lower Rail Height								
800 x 1250mm Platform (31 1/2” x 49 1/4”)	245 9 5/8	306 12	372 14 5/8	442 17 3/8	520 20 1/2	606 23 7/8	705 27 3/4	818 32 1/4
800 x 1000mm Platform (31 1/2” x 39 3/8”)	222 8 3/4	273 10 3/4	327 12 7/8	384 15 1/8	448 17 5/8	518 20 3/8	599 23 5/8	693 27 1/4
750 x 900mm Platform (29 1/2” x 35 1/2”)	215 8 1/2	260 10 1/4	260 10 1/4	361 14 1/4	418 16 1/2	483 19	557 22	643 25 3/8

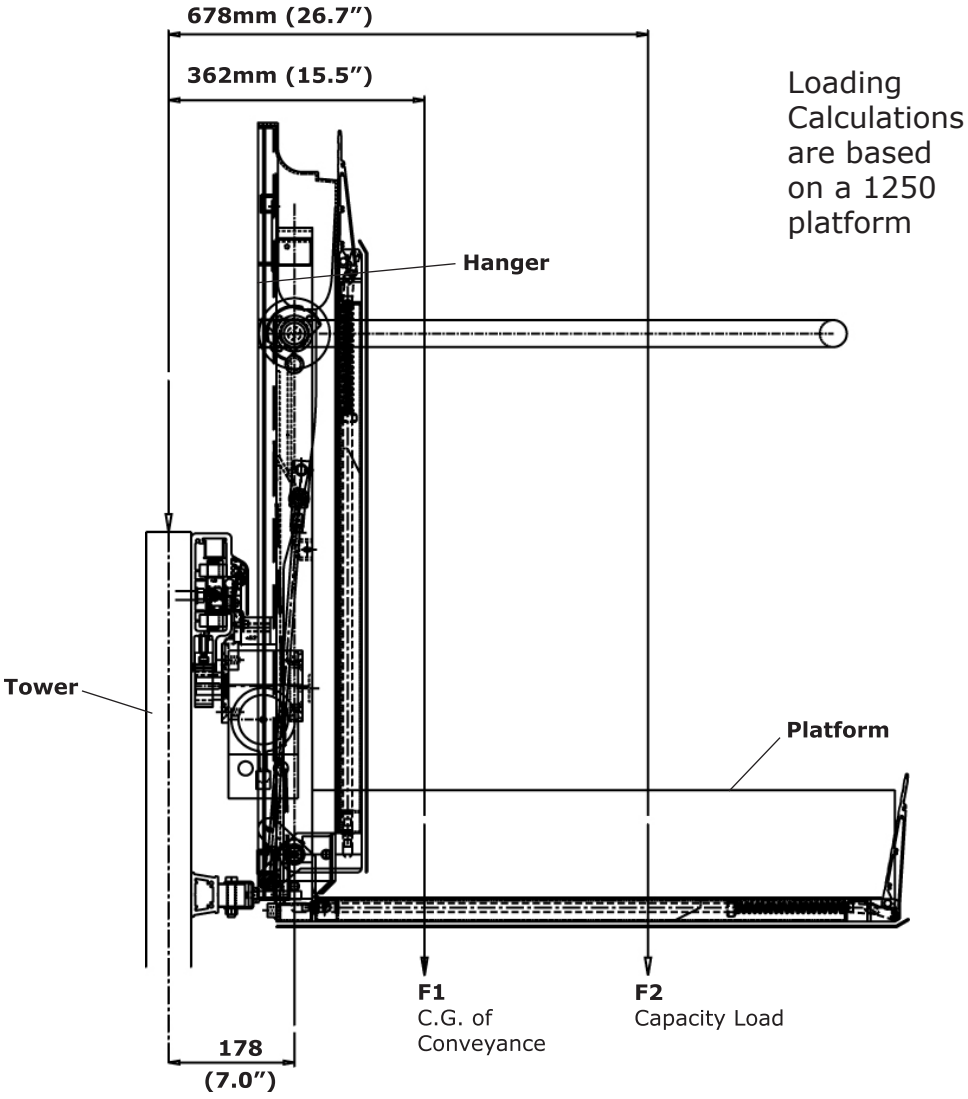
Xpress II Loading Diagram

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 = Force (F) x distance (d)
M = F1 x d1+F2 x d2

Maximum Moment
M = 2086 kNmm
18046 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

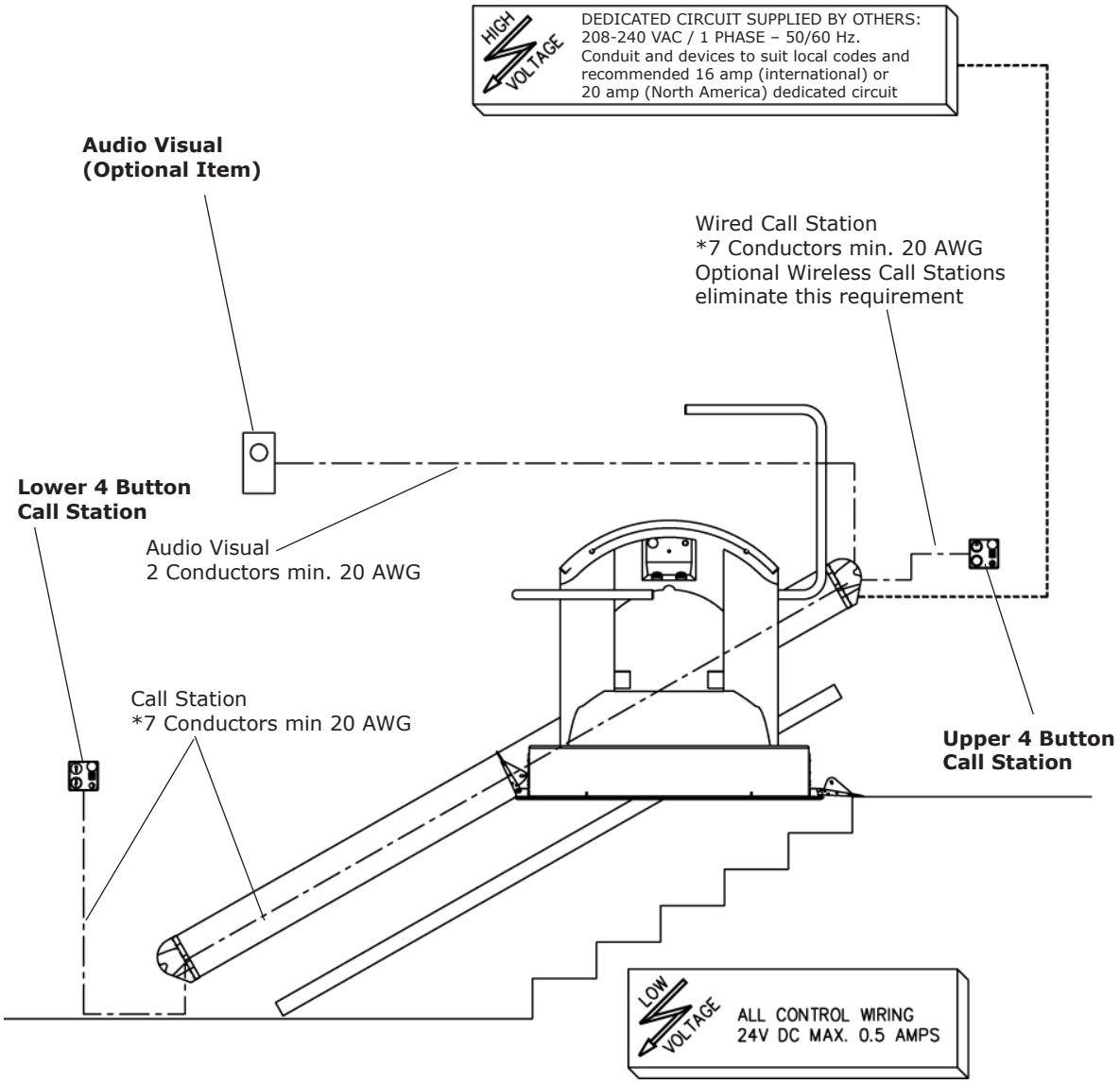
Actual wiring and number of conductors may vary depending on options. Some of the options that will affect the wiring include:

- 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

Daily Cycles:

The Xpress II is designed based on the following daily cycles:

- Normal 10
- Heavy 30
- Excessive 45
- Max. starts per hour 5

Consult your Sales Representative if there is a chance you may exceed these amounts.

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:
Painted 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.

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Authorized Garaventa Lift Representative

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