

Garaventa Wheelchair Lifts

XPRESS II DESIGN AND PLANNING GUIDE

Inclined platform lift for straight stairways







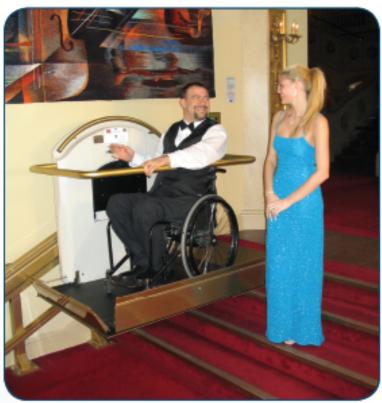


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Garaventa - the world's #1 choice for accessibility solutions.

Garaventa has been dedicated to developing safe and reliable accessibility solutions since 1978, and is now an industry leader worldwide. Years of hard work and an uncompromising commitment to quality have enabled us to perfect the internationally renowned Garaventa Stair-Lift. This same commitment has led Garaventa to develop the Xpress II inclined platform lift and the Genesis vertical platform lift.

Developed in 1998, the Genesis vertical platform lift incorporates state of the art features with elegant styling and quiet operation. The Genesis is available in a variety of models and configurations with many standard and optional features to choose from. With the development of the Genesis vertical platform lift, Garaventa has taken a significant step towards being able to solve most accessibility challenges for building owners.

In 1999 Garaventa introduced the Xpress II, the next generation inclined platform lift for straight stairways. The sleek and attractive Xpress II can be installed indoors or outdoors and is a cost-effective access solution.

Our expertise in providing accessibility solutions has enabled our design team to take on the most challenging access situations, and develop innovative solutions for schools, places of worship, offices, hotels, airports, subways and a wide range of public and private buildings around the world.

We have built our business on service. Please contact us and let us help solve your access challenges.



© Garaventa Lift

As we are continuously improving our products, specifications outlined in this guide are subject to change without notice.

What is an Inclined Platform Lift?

An inclined platform lift easily transports a passenger in a wheelchair or someone who has difficulty maneuvering stairs up and down a stairway. 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 hoist ways.

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

Building floor space, whether a business or a school is valuable. Inclined platform lifts utilize very little of this expensive commodity.

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 25 years of experience, Garaventa is willing and able to overcome almost any design challenge you face. Please call our Design Hot Line or email us with your accessibility challenge.

Phone: 1-800-663-6556

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 electrostatically applied and baked at 210° C (410° F). Garaventa's standard color, Satin Grey (fine textured), complements a variety of modern and traditional decors (color samples are available upon request). The conveyance cover is made of beige colored high quality ABS/PVC.

Custom Colors (Optional)

Garaventa also 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 on right):
(a) upper and lower rails, (b) upper rail slot cover, (c) platform grab rail, (d) curved arms, (e) sensing plate, call stations, towers (if ordered), pedestrian grab rail.

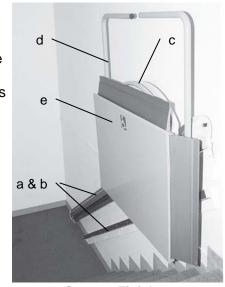
Optional paint finishes include brass and stainless effects.

How it Works

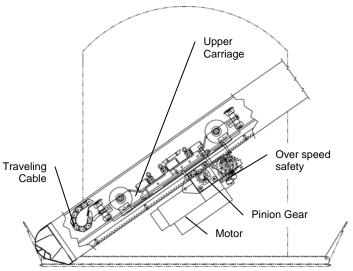
The platform of the Xpress II travels along two custom designed aluminum rails that can be mounted either directly to the wall or to support posts (towers). The upper rail houses a gear rack and a traveling cable while the lower rail provides lateral support. The platform is propelled by means of a carriage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

Over speed Safety

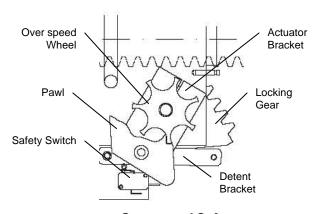
The Over speed Safety located in the upper carriage on the platform, consists of a mechanical pawl and electrical cutout switch. In the unlikely event that the lift should descend too quickly, both the mechanical and electrical safety will activate simultaneously and stop the platform from moving.



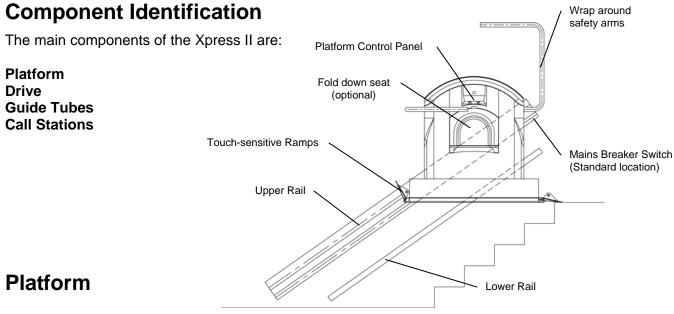
Custom Finishes



Platform and Drive Systems



Over speed Safety



Platform Sizes

Direct mount Configuration shown

The platform is available in three standard sizes, with a rated load of 225 kg. (495lbs.).

-800 x 1250mm (31 1/2" x 49 1/4")

-800 x 1000mm (31 1/2" x 39 3/8")

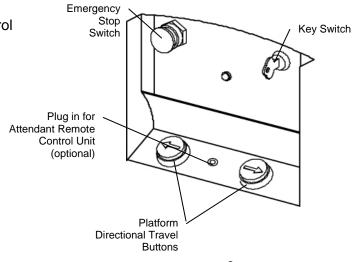
-750 x 900mm (29 1/2" x 35 1/2")

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")

Platform Controls

The durable and vandal resistant platform control panel is mounted to the platform hanger. The standard platform controls consist of two large illuminated 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 Buttons** during attendant operation. The remote control unit can be removed when not required.



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

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 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 allowing the object to be removed.

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.

Under Platform Sensing Plate

The under platform sensing plate detects obstacles underneath the platform.

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 is able to be manually folded and will lock in the folded position.

Curved Safety Arms

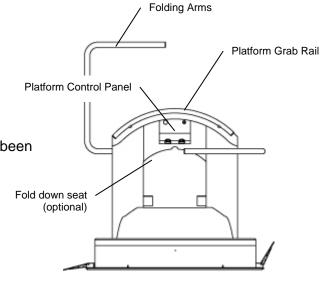
Fully automatic curved safety arms are available to further increase the safety of the Xpress II inclined platform lift.

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 in determining times for preventive maintenance.

Keyless Platform

The platform comes standard without key.



Manual Emergency Lowering

Included in standard offer: Lowering hand wheel, allowing the user to lower the platform in case of an emergency

Optional Platform Features

Folding Seat Assembly

Designed for use by semi-ambulatory passengers, the folding seat is equipped with a safety belt.

Side Load

Designed for confined lower landing areas, this feature opens a side ramp 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

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.

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 Kit

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

For additional protection against unauthorized usage.

Platform lock

An additional safety feature that locks the platform and protects the unit from vandalism.

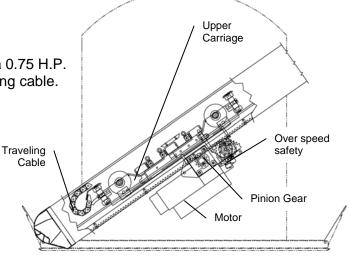
Note: In some areas certain optional features are either not permitted or mandatory depending on local codes. Please consult your local Garaventa representative for clarification

Drive System

The carriage mounted drive system consists of a 0.75 H.P. motor, a gearbox, pinion gear and flexible traveling cable.

Mains Power

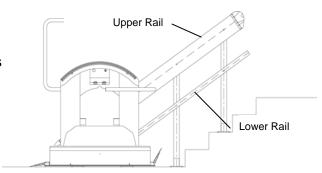
The mains power requirement is 208 to 240VAC, single phase, on a dedicated circuit (North America: 20 ampere, Europe: 16 ampere). A lockable supplementary mains disconnect switch is mounted at the end of the upper rail.



Platform and Drive System

Guide Rails

Two 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 14.



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 their landing the user simply presses the directional button to bring the platform to their landing.

Call Station Options

To meet customer or code requirements an optional Emergency Stop Button and an Attendant Call Switch can be added to the call station.

Keyless (adjustable in field)

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 (adjustable in field)

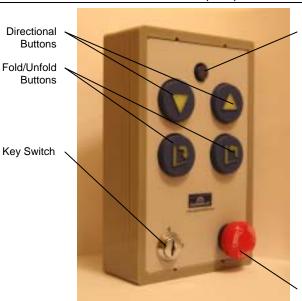
This option is typically used when the lift can not be called from a call station due to overhead clearance issues. With this option, the lift travels with the arms in the horizontal position and platform folded down only. This option which is adjustable in the field can be enabled by a jumper setting 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 folded down.

Mounting Options

The call stations can be mounted on the wall (surface or flush mounted). Flush mount call stations can be pre-wired during the construction or building renovations resulting in a cleaner appearance with no surface wiring. The optional flush call station box dimensions are Length: 185 mm (7 ¼"), Width: 115 mm (4 ½") and Depth: 52 mm (2")



Attendant Call Button (optional)

Emergency Stop Button (optional)

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. 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.

Auxiliary Power

This feature 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**.

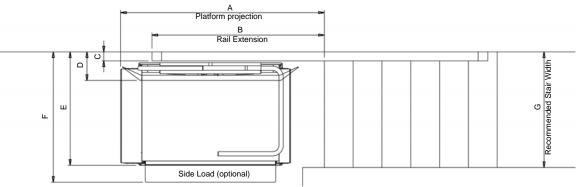
Box Size: 597 mm (23 1/2") high x 444 mm (17 1/2") wide x 192 mm (7 5/8") deep

Attendant Remote Control

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

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 in severe weather areas.



Note: Dimension F only applies at lower landing when the side load ramp is in the open position.

Platform Projection and Rail Extensions

Stair Angle	10°	15°	20°	25°	30°	35°	40°	45°	50°
Dimension A - Platform	Projection								
800 x 1250mm Platform	2863	2399	2163	2021	1924	1854	1799	1756	1720
(31 1/2" x 49 1/4")	112 3/4	94 1/2	85 1/4	79 5/8	75 7/8	73	70 7/8	69 1/4	67 3/4
800 x 1000mm Platform	2618	2154	1918	1776	1679	1609	1554	1511	1475
(31 1/2" x 39 3/8")	103 1/8	84 3/4	75 1/2	69 7/8	66 1/8	63 3/8	61 1/8	59 1/2	58 1/8
750 x 900mm Platform	2502	2052	1818	1676	1579	1509	1454	1411	1375
(29 1/2" x 35 1/2")	98 1/2	80 3/4	71 5/8	66	62 1/4	59 1/2	57 1/4	55 5/8	54 1/8
Dimension B - Rail Exter	nsion								
800 x 1250mm Platform	2553	2101	1870	1729	1629	1551	1485	1426	1371
(31 1/2" x 49 1/4")	101 1/8	83 3/8	74 1/4	68 3/4	64 3/4	61 3/4	59 1/8	56 3/4	54 5/8
800 x 1000mm Platform	2430	1976	1745	1604	1504	1426	1360	1301	1246
(31 1/2" x 39 3/8")	95 5/8	77 3/4	68 3/4	63 1/8	59 1/4	56 1/8	53 1/2	51 1/4	49
750 x 900mm Platform	2365	1924	1695	1554	1454	1376	1310	1251	1196
(29 1/2" x 35 1/2")	93 1/8	75 3/4	66 3/4	61 1/4	57 1/4	54 1/4	51 5/8	49 1/4	47

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 Dimensions for Different Attachment Methods

Otali Width Ocaranoe Dimensions for Director Attachment Methods											
Clearance Width	С			D	E		F		G		
Dimensions	Rail Protrusion		Platform Folded		Platform Unfolded		Side Load Ramp		Stair Width		
Difficitations	mm	in	mm	in	mm	in	mm	in	mm	in	
800 x 1250 mm (31 1/2" x 49 1/4") & 800 x 1000 mm (31 1/2" x 39 3/8") Platforms											
Direct Mount	81	3 1/4	260	10 1/4	1020	40 1/8	1175	46 1/4	1040	41	
Towers	145	5 3/4	325	12 3/4	1084	42 5/8	1239	48 3/4	1104	43 1/2	
*750 x 900 mm (29 1/	2" x 35	1/2") Platf	orm								
Direct Mount	81	3 1/4	299	11 3/4	927	36 1/2	N/A	N/A	947	37 1/4	
Towers	145	5 3/4	364	14 3/8	992	39	N/A	N/A	1012	39 7/8	
725 x 1000 mm (28 1	/2" x 39	3/8") Plati	form								
Direct Mount	81	3 1/4	260	10 1/4	945	37 1/4	1100	43 1/4	965	38	
Towers	145	5 3/4	325	12 3/4	1009	39 3/4	1164	45 7/8	1029	40 1/2	
675 x 1000 mm (26 1	/2" x 39	3/8") Plati	form								
Direct Mount	81	3 1/4	260	10 1/4	895	35 1/4	1050	41 3/8	915	36	
Towers	145	5 3/4	325	12 3/4	959	37 3/4	1114	43 7/8	979	38 1/2	

Note: For direct mount with 2"x8" board, add 1 1/2" to all direct mount dimensions *750x900 platform uses fixed kick plate; not recommended for North America

Attachment Methods

The 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 XpressII.

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 wall (76mm x 76mm x 6mm wall) (3" x 3" x 1/4") minimum. Locations determined by Garaventa.



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.

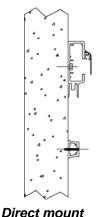
Freestanding Support Towers

Required where no existing support walls are, or when the lift must be located away from a wall structure.

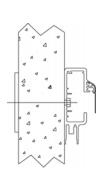
- solid concrete stairs/landings
- wood stairs/landings over 76.2mm (3") thick
- concrete steel pan treads (towers must be secured back to the stringer with brackets for extra support)

Open Balustrade (Towers in the core)

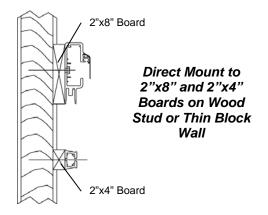
In situations where the stairs cannot support freestanding towers and where direct mounting is not feasible, it maybe possible to install support towers in the open core. This may also be a solution where there is insufficient clearance with towers on the treads. The towers are fastened to the floor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

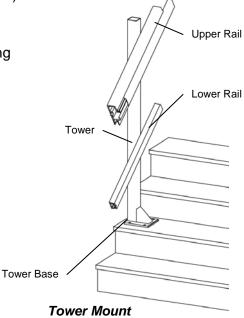






Thin Structural Wall (Through-Bolting maybe applied)





Pedestrian Grab Rail

A pedestrian grab rail can be mounted to the top of the upper rail section to assist pedestrians using the stairs

Pedestrian Grab Rail op of g

Pedestrian Grab Rail Heights

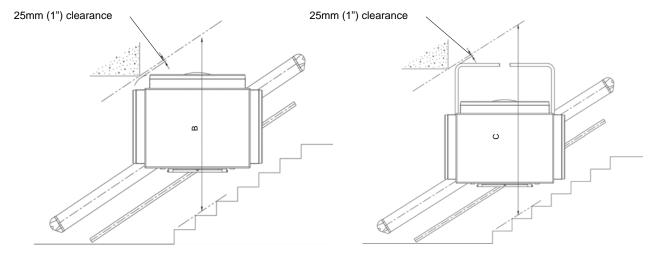
Stair Angle	10°	15°	20°	25°	30°	35°	40°	45°	50°	
Dimension A – Handrail Height										
800 x 1250mm Platform	800	866	941	1020	1112	1215	1335	1477	1651	
(31 1/2" x 49 1/4")	31 1/2	34 1/8	37	40 1/8	43 3/4	47 7/8	52 1/2	58 1/8	65	
800 x 1000mm Platform	778	833	895	962	1039	1127	1230	1352	1503	
(31 1/2" x 39 3/8")	30 5/8	32 3/4	35 1/4	37 7/8	40 7/8	44 3/8	48 3/8	53 1/4	59 1/8	
750 x 900mm Platform	770	820	876	939	1010	1092	1188	1302	1443	
(29 1/2" x 35 1/2")	30 3/8	32 3/8	34 1/2	37	39 3/4	43	46 3/4	51 1/4	56 7/8	

Overhead Clearances Required

Stair Angle	10°	15°	20°	25°	30°	35°	40°	45°	50°		
Dimension B - Overhead	Dimension B - Overhead Clearance Platform Folded Up (No Arms)										
800 x 1250mm Platform	1427	1546	1674	1811	1963	2134	2329	2558	2834		
(31 1/2" x 49 1/4")	56 1/8	60 7/8	65 7/8	71 1/4	77 1/4	84	91 3/4	100 3/4	111 5/8		
800 x 1000mm Platform	1386	1483	1588	1701	1827	1969	2131	2323	2554		
(31 1/2" x 39 3/8")	54 5/8	58 3/8	62 1/2	67	71 7/8	77 1/2	83 7/8	91 1/2	100 1/2		
750 x 900mm Platform	1317	1374	1440	1516	1606	1735	1896	2083	2306		
(29 1/2" x 35 1/2")	51 7/8	54 1/8	56 3/4	59 3/4	63 1/4	68 3/8	74 5/8	82	90 7/8		
Dimension C - Overhead	Clearanc	e Platforr	n Folded	Up (With	Arms)						
800 x 1250mm Platform	1917	2031	2152	2281	2426	2584	2765	2977	3233		
(31 1/2" x 49 1/4")	75 1/2	80	84 3/4	89 3/4	95 1/2	101 3/4	108 7/8	117 1/4	127 1/4		
800 x 1000mm Platform	1876	1968	2066	2172	2288	2419	2568	2742	2952		
(31 1/2" x 39 3/8")	73 7/8	77 1/2	81 3/8	85 1/2	90 1/8	95 1/4	101 1/8	108	116 1/4		
750 x 900mm Platform	1863	1950	2043	2145	2256	2380	2524	2691	2891		
(29 1/2" x 35 1/2")	73 3/8	76 3/4	80 1/2	84 1/2	88 7/8	93 3/4	99 3/8	106	113 7/8		
Dimension D - US Code	for Overh	ead Clear	ance (152	4mm (60'	') above P	latform)					
800 x 1250mm Platform	1845	1961	2084	2215	2358	2516	2696	2904	3153		
(31 1/2" x 49 1/4")	72 5/8	77 1/4	82	87 1/4	92 7/8	99	106 1/8	114 3/8	124 1/8		
800 x 1000mm Platform	1803	1898	1998	2105	2222	2351	2498	2669	2873		
(31 1/2" x 39 3/8")	71	74 3/4	78 5/8	82 7/8	87 1/2	92 1/2	98 3/8	105 1/8	113 1/8		
750 x 900mm Platform	1781	1867	1958	2056	2162	2279	2413	2569	2754		
(29 1/2" x 35 1/2")	70 1/8	73 1/2	77 1/8	81	85 1/8	89 3/4	95	101 1/8	108 1/2		
Dimension E - Canadian	Code for	Overhead	l Clearand	ce (1500m	m (59") a	bove Cente	erline of Pl	atform)			
800 x 1250mm Platform	1713	1774	1838	1907	1982	2134	2329	2558	2834		
(31 1/2" x 49 1/4")	67 1/2	69 7/8	72 3/8	75 1/8	78 3/8	84	91 3/4	100 3/4	111 5/8		
800 x 1000mm Platform	1691	1740	1792	1848	1909	1977	2131	2323	2554		
(31 1/2" x 39 3/8")	66 5/8	68 1/2	70 1/2	72 3/4	75 1/8	77 7/8	83 7/8	91 1/2	100 1/2		
750 x 900mm Platform	1676	1723	1770	1822	1878	1940	2012	2095	2194		
(29 1/2" x 35 1/2")	66	67 7/8	69 3/4	71 3/4	74	76 3/8	79 1/4	82 1/2	86 3/8		

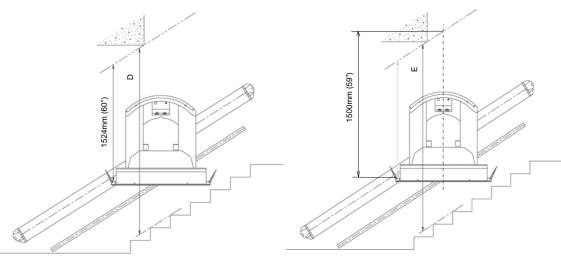
Note: Please consult the local Garaventa representative for local code requirements.

^{*}Platform folded up requires more overhead space than 1500mm (59") above centerline of platform numbers reflect platform requirement



Overhead Clearances required for platform folded up (without arms)

Overhead Clearances required for platform folded up (with arms)



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

1524mm (60") overhead clearance required to any point above the platform deck. Refer to Dimension D in the chart on page 12

Note: Consult the local reprsentative for status of the new ASME A18.1b code requirements

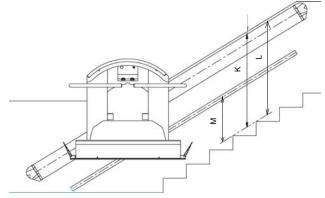
(some areas are exempt)

Overhead Clearances to meet Canadian Code Requirements (CSA B355-2000)

1500mm (59") overhead clearance required to centerline of the platform. Refer to Dimension E in chart on page 12

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°	50°	
Dimension K - Min. Wall Height for Wall Mount										
800 x 1250mm Platform	762	827	900	975	1064	1162	1276	1410	1574	
(31 1/2" x 49 1/4")	30	32 1/2	35 3/8	38 3/8	41 7/8	45 3/4	50 1/4	55 1/2	62	
800 x 1000mm Platform	740	794	853	918	991	1074	1171	1285	1426	
(31 1/2" x 39 3/8")	29 1/8	31 1/4	33 5/8	36 1/8	39	42 1/4	46 1/8	50 5/8	56 1/8	
750 x 900mm Platform	709	758	812	873	941	1019	1110	1217	1349	
(29 1/2" x 35 1/2")	28	29 7/8	32	34 3/8	37	40 1/8	43 3/4	48	53 1/8	
Dimension L - Upper Rai	l Height									
800 x 1250mm Platform	727	792	865	940	1029	1127	1241	1375	1539	
(31 1/2" x 49 1/4")	28 5/8	31 1/8	34	37	40 1/2	44 3/8	48 7/8	54 1/8	60 5/8	
800 x 1000mm Platform	705	759	818	883	956	1039	1136	1250	1391	
(31 1/2" x 39 3/8")	27 3/4	29 7/8	32 1/4	34 3/4	37 5/8	40 7/8	44 3/4	49 1/4	54 3/4	
750 x 900mm Platform	697	746	800	860	927	1004	1094	1200	1331	
(29 1/2" x 35 1/2")	27 1/2	29 3/8	31 1/2	33 7/8	36 1/2	39 1/2	43 1/8	47 1/4	52 3/8	
Dimension M - Lower Ra	il Height									
800 x 1250mm Platform	245	306	372	442	520	606	705	818	956	
(31 1/2" x 49 1/4")	9 5/8	12	14 5/8	17 3/8	20 1/2	23 7/8	27 3/4	32 1/4	37 5/8	
800 x 1000mm Platform	222	273	327	384	448	518	599	693	807	
(31 1/2" x 39 3/8")	8 3/4	10 3/4	12 7/8	15 1/8	17 5/8	20 3/8	23 5/8	27 1/4	31 3/4	
750 x 900mm Platform	215	260	308	361	418	483	557	643	747	
(29 1/2" x 35 1/2")	8 1/2	10 1/4	12 1/8	14 1/4	16 1/2	19	22	25 3/8	29 1/2	

Xpress II Loading Diagram

F1: 121 kg (center of gravity of conveyance)

1179 N (265 lbf)

F2: 225 kg (max. loading capacity)

2207 N (495 lbf)

d1: 362mm (15.5")

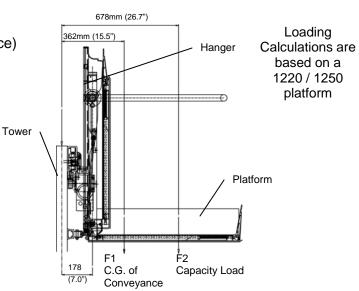
d2: 678mm (26.7")

Moment at center of tower M = Force (F) x distance (d)

 $M = F1 \times d1+F2 \times d2$

Maximum Moment

M = 1923.1 kNmm 17022.1 in.lbf



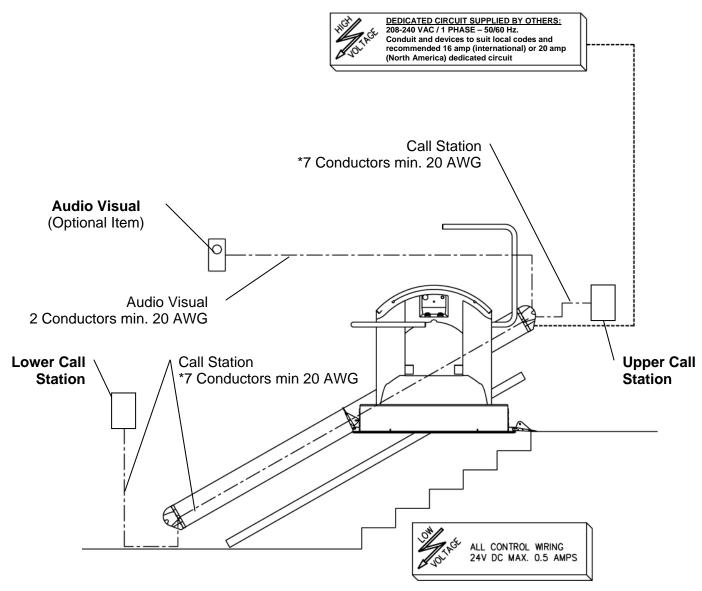
Typical Wiring Layout

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 for Attendant Call (optional) & for 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 (optional) required in some jurisdictions for code compliance.

Rated Load:

225 kg. (495 lbs.)

Speed:

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

Operating Controls:

Call Stations (Std):

Constant pressure directional buttons, one touch fold & unfold buttons, 24VDC power, and keyed operation.

Platform (Std):

Constant 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.

Over speed Safety:

Mechanical over speed 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 representative or Garaventa Lift.

Need Assistance Writing the Specification?

Xpress II specifications will vary from one building site to another based on the stairway configuration, building materials, user requirements and local codes. **Your Local Authorized Garaventa Dealer has the expertise to assist and develop an appropriate design specification for your accessibility project.**

Authorized Garaventa Dealers can be found Worldwide.

1-800-663-6556 or 1+604-594-0422or email productinfo@garaventalift.com for the Dealership nearest you.

In addition, professional designers at Garaventa Lift are available to answer your technical questions and to assist you with the design and specs.

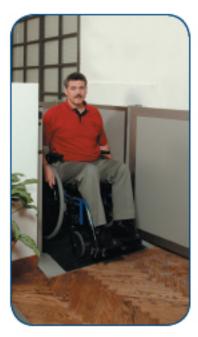
Garaventa Lift Products

Garaventa is dedicated to helping you find quality accessibility solutions. Our design team has worked on many different projects for schools, offices, hotels, airports, subways, places of worship and a wide range of public and private buildings around the world.









Stair-Lift GSL Artira

The Stair-Lift GSL Artira is a versatile access solution suitable for indoor and outdoor applications with a maximum of seven stops. This model is designed for turning or curving stairways following the inside or outside radius of the stairways, or on straight stairways with intermediate landings.

Stair-Lift Xpress II

The Stair-Lift Xpress II is designed for straight stairways. When good looks and fast installation times are considerations, the Xpress II is the answer. The Xpress II is safe, durable, code compliant and built with the quality and reliability you expect from Garaventa.

Genesis Shaftway and Enclosure Models

The Garaventa Genesis is a vertical platform lift designed to provide access into or within public buildings. It travels inside a complete, self-contained enclosure or can be located in a shaftway constructed by others. Our unique anodized design is strong, durable and attractive.

Genesis OPAL Model

The Genesis OPAL is a reliable, cost effective accessibility solution for public buildings or private residences. This vertical lift is ADA compliant and suitable for indoor or outdoor applications requiring vertical transportation up to five feet.

Visit our Architects Resource Center at www.garaventalift.com



www.garaventalift.com

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

Garaventa Lift

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