



PLANNING GUIDE

Applicable Codes:

ASME A17.1 ASME A18.1 CSA B355

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Purpose of This Guide

This guide assists architects, contractors, and lift professionals to incorporate the C65 Inclined Platform Lift into a residential or public building design. The design and manufacture of the C65 Inclined Platform Lift meets the requirements of the following codes and standards:

- ASME A17.1 Part 21 (Private), Part 20 (Public)
- ASME A18.1 Section 6 (Private), Section 3 (Public)
- CSA B355 Safety Standards S1-02

We recommend that you contact your local authority having jurisdiction to ensure that you adhere to all local rules and regulations pertaining to inclined platform lifts.

IMPORTANT: This Planning Guide provides nominal dimensions and specifications useful for the initial planning of an inclined platform lift project. **Dimensions and specifications are subject to change without notice due to continually evolving code and product applications.**

Before beginning actual construction, please consult Savaria Corporation or the authorized Savaria dealer in your area to ensure you receive your site-specific installation drawings with the dimensions and specifications for your project.

Visit our website for the most recent drawings and dimensions.

How to Use This Guide

- **1** Determine your client's intended use of the lift.
- 2 Determine the local code requirements.
- **3** Determine the site installation parameters.
- 4 Plan for electrical requirements.

History

March 24, 2010 – Initial release

June 1, 2010 – Moved folding seat and audio/visual alarm from optional features to standard features in Specifications table on page 8

February 22, 2011 – Updated drawing on page 5; updated drawings on pages 10 and 11; updated power supply information on page 12; updated sample installation drawings on pages 13 and 14

April 4, 2011 – Added generic installation drawings

Introduction to the C65 Inclined Platform Lift

The C65 Inclined Platform Lift is an accessibility device used to provide access over multiple levels of straight stairs, stairs with intermediate landings, or stairs with turns. The C65 will transport a passenger either sitting in a wheelchair or on the folding seat. The unit travels along the rail at a comfortable speed of 26 feet per minute (8 metres per minute) on straight runs, slowing for curves or turns (adjustable at the time of installation).

The C65 is easy to operate using the on-board pendant control. When the lift is not in use, it can be parked and folded up allowing access to the stairs.

The C65 is suitable for either indoor or outdoor use, and can be factory-built for left- or right-side rail installations, and front or side platform access. Typical applications include schools, churches, hospitals, commercial buildings, restaurants, etc.

Major building renovations are usually not required as the C65 is installed on a modular rail system that can be installed for any number of levels. The rails will be securely fastened to a supporting wall, the stairs, or both.

Components of the Lift

Figure 1



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Display setting keypad (optional)

> Key switch Emergency STOP button

6

ARM UP button

Interface display (optional) 0 0 0

0

Safety Features

Sensors

During travel, the platform and the body of the lift are protected by sensors which stop the lift if it touches any obstacle (Figure 3). You can then reverse direction of the unit to remove the obstacle from the travel route.

Safety Arms and Platform Ramps

While in motion, the platform is protected by two safety arms (Figure 3). The platform is also protected by two platform side ramps which have the dual function of facilitating access to the lift at the floors (open position) and of retaining the wheelchair while the lift is in motion (safety position).

Before the lift leaves the floor, the safety arms and platform ramps automatically move into the safety position (arms down and side ramps up).

The platform ramp facing in the downward direction only opens at the lower floor.

If the safety arms or platform ramps encounter an obstacle as they move into position, a microswitch is tripped, preventing operation of the lift until the obstacle is removed.

Handles

The handles (Figure 3) are located on the lift body and can be used as rests while the lift is in motion.

Figure 3



Safety Brake

The lift is equipped with a mechanical safety brake (Figure 4). It engages if a drive component fails, or if the normal downward travel speed is exceeded by a preset amount. Application of the brake slows the lift to a stop.

Figure 4



Limit Switches

The home sensor (Figure 5) acts as a limit switch at the bottom floor. The positions of the other floors, including the top floor, are programmed at installation. In the event of a malfunction, a final limit switch stops the lift.

Figure 5



Specifications

C65 Specifications

Specification	Data		
Rated load	507 lb (230 kg)		
Gradient	Changing, with or without landings and turns, up to 45°		
Capacity	One person in wheelchair (or sitting on the seat; seat capacity is 253 lb. (115 kg)		
Platform size	49.25″ x 31.5″ (1250 mm x 800 mm)		
Travel speed	26.25 feet/min (8 metres/min)		
Travel direction	Forward/backward		
Temperature	14 °F to 140 °F (-10 °C to +60 °C)		
Humidity	Maximum 70%		
	INOT FOR USE IN DATHROOMS OF SWIMMING POOL Areas		
Noise	Less than 70 db		
Motor	1.35 HP (1 kW), 24 VAC		
Power supply	24 volts DC (battery system), 115 volts 15 amps for charger		
Up/down/stop button	Timed (starting delay of 3 seconds)		
Emergency STOP button	Immediate stop		
Key switch	Enables use of controls		
Circuit breaker reset button	To be provided by customer		
Standard features	Platform control buttons (on platform)		
	Constant-pressure type control buttons		
	Manual lowering capability (using handwheel)		
	Safety arms		
	Manual folding platform (fold/unfold platform by hand)		
	Folding seat on platform		
	Limit switches		
	No machine room required		
	Emergency stop button		
	Audio-visual alarm		
Safety features	Edge sensors		
	Underpan sensors		
	Safety brake		
	Safety arms		
	Platform ramps		
	Handles		
	Emergency stop button		
	Limit switches		
	Manual lowering capability (using handwheel)		
Options	Landing control buttons (on call station)		
	Motorized folding platform (fold/unfold platform using control buttons)		
	Outdoor package		
	Waterproof cover		

General

Stairway

Due to close running clearances, the Owner/Agent must ensure that the stairs (where provided) are level, plumb (+/-1/8" (3 mm)) and square and are in accordance with the dimensions specified on the site-specific installation drawings.

Minimum Overhead Clearance

The Owner/Agent must ensure the minimum overhead clearance is in compliance with codes.

Construction Site

The Owner/Agent is responsible for all masonry, carpentry and drywall work as required, and for patching and finishing (including painting) all areas where walls/floors may need to be cut, drilled or altered in any way to permit the proper installation of the lift.

Dimensions

The Contractor/Customer must verify all dimensions on the installation drawings and report any discrepancies to our office immediately.

Installation

The equipment must be installed by a qualified technician and in compliance with the codes identified on the front cover of this manual.

The conformity for access to the platform is the distributor's responsibility.

Floor/Support Wall Loads

A structural engineer must ensure that the building and stairway will safely support all loads imposed by the lift equipment. Adequate structural support must be provided at the top landing, bottom landing and throughout the supporting wall along the stairs.

The pull-out force on the supporting wall will vary depending on the type of rail mounting used (wall bracket, or steps and wall posts). The supporting wall must be able to support the pull-out force as identified in the support load diagram below (see dimension A or D).

All wood studs in the supporting wall must be anchored in the ceiling and the floor to meet the pull-out force requirements. Wood studs must be placed at 16" (404 mm) centres.

The floor load will vary depending on the type of rail mounting used (wall bracket, self-supporting posts, or steps and wall posts). The floor must be able to support the loads identified in the support load diagram below (see dimension B, or C and E).

Figure 6: Support Load Diagram



C 65					
PLATF. 1250X800					
S1	600	mm	23.62	in	
S2	180	mm	7.09	in	
Α	2110	N	464.2	lbs	
В	2870	N	631.4	lbs	
С	5760	N	1267.2	lbs	
D	7040	N	1548.8	lbs	
E	7590	N	1669.8	lbs	

Structural

Rail

Where required, the rail must be securely fastened to the structural support wall. Refer to the wall diagram and lag dimensions shown below. Note that this information is provided on sheet 2 of your installation drawings.

Figure 7: Wall Diagram and Lag Dimensions



Electrical

General

Electrical equipment and wiring to comply with Section 38 of CSA C22.1 (Canada) or Section 620 of NEC ANSI/NFPA 70 (USA).

Power Supply

110 VAC, 15A, 60 Hz, single phase circuit through a fused disconnect. Contractor/customer to provide two 14 AWG conductors and a ground conductor between the fused disconnect contact and the power supply box (battery charger). Contractor/customer to provide an electrical connection box for the power supply (battery charger). Power supply (battery charger) can be installed at either the top or bottom landing.

Lighting

Lighting must be a minimum of 100 Lux at the platform and landings and must have a switch and electrical GFCI outlet. Emergency lighting of 2 Lux must be provided for a minimum of one hour on the platform along the travel route.

Installation Drawings

The next two pages provide generic installation drawings (one for a curved application and one for a straight application).

NOTE: The drawings provided here are generic drawings only. Be sure to refer to the installation drawings that come with the lift for the site-specific dimensions and specifications.

Figure 8: Installation Drawing (Curved Application)





Figure 9: Installation Drawing (Straight Application)

AMPS CALL

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