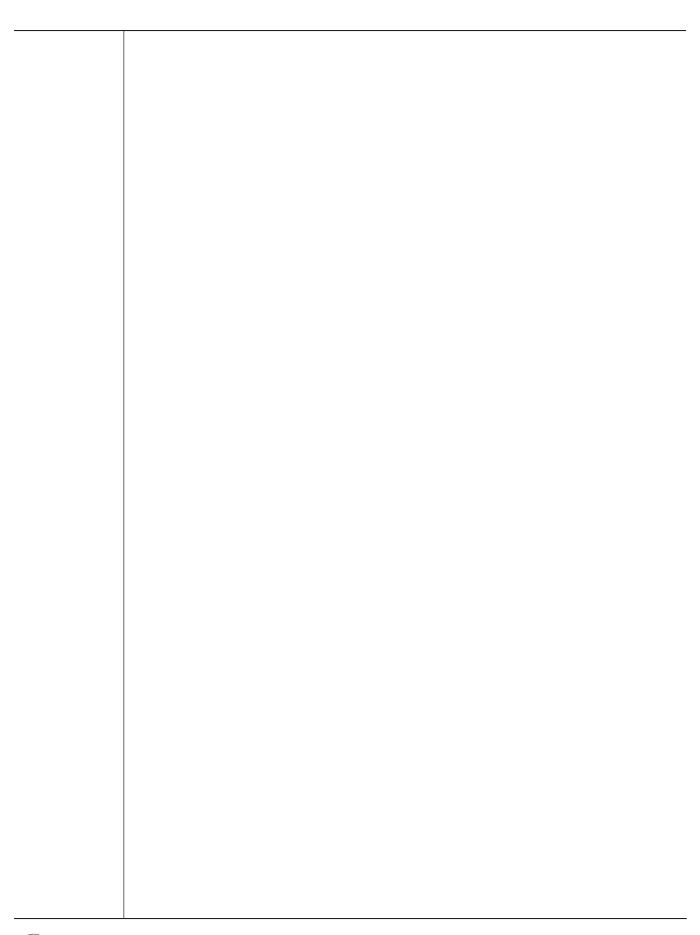


Planning Guide

Paca-Lift Elevator







We are a proud member of the Accessibility Equipment Manufacturers Association. This symbol assures you of our commitment to high quality and accessibility to everyone.



Waupaca Elevator Mission Statement

Our company's mission is to supply and service products that meet or exceed our customers' expectations of high quality, value, delivery and longevity. Our success is a direct reflection of our employees' involvement and commitment to excellence. We strive to continuously improve our products to ensure meeting the future requirements of our customers and facilitate competitive growth.



S P E C WIZARD

CSI 3-Part Specifications

Customize and download CSI 3-Part Specifications by logging on to:

<u>www.arcat.com</u> - specify Waupaca Elevator as the requested manufacturer <u>www.waupacaelevator.com</u> - go to "Architect Section" click on linking icon

SpecWizard is a faster easier way to customize CSI 3-part residential elevator specifications. Follow the above website information and choose the Spec Wizard icon. The drop down menus couldn't be any easier to use, just click on your choice of listed options and within a couple of minutes you have a completely customized specification.

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Introduction

This Planning Reference Guide is to be used as a guide to determine parameters of installation and steps taken to achieve a proper elevator installation. This guide may be used by the architect, contractor, dealer or home owner. The information in this guide is intended as an overview, each installation will have job specific specifications that must be followed. Do not attempt to construct a hoistway on this information alone.

Elevator installation is to be done by an authorized elevator contractor, and in accordance with installation instructions provided by the manufacturer. Installation must also be in compliance with requirements of the National Electric Code, American Society of Mechanical Engineers safety code, and state and local building codes. Waupaca Elevator's products are designed to meet the requirements of ASME - 17.1 National Elevator Codes for residential elevators and are fully certified by a registered professional engineer. Waupaca Elevator Company, Inc. elevators manufactured and installed under the proper parameters are warranted for 2 years. Manufacturer assumes no liability for equipment not installed in compliance with these codes.

Planning Steps

- 1. Locate local dealer and together determine the following:
 - A Select drive system, car type and design specifications
 - B Address national, state and local code requirements
 - C Hoistway size
 - D Car size, layout and options
 - E Machine room location and layout
 - F Electrical requirements
- 2. Obtain and follow site specific field drawings while building hoistway, doorways and any other construction related to the elevator.
- 3. Coordinate with dealer to install elevator.



Paca-Lift Winding Drum Elevator

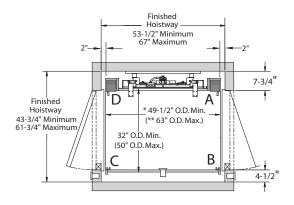
Series 018

Advantages

- Limited Machine Room Space
- Decreased Installation Time
- Advanced Fieldbus Electrical System
- Reliable
- Quiet Operation
- Smooth Ride
- Emergency Battery Descent
- Automatic Gate Operator



Minimum and Maximum Dimensions



- * Single Opening 42 3/4" O.D. (outside dimension) **minimum** (rail is not centered in hoistway)
- ** Single Opening 62-1/2" O. D. (outside dimensions) **maximum**

NOTE:

- 1) Minimum **D A** dimensions reflect rail centered in hoistway
- 2) Minimum **D A** dimension for car without a gate recess is 36" O.D. (outside dimension)
- 3) Car I.D. (inside dimensions) can not exceed 15 sq. ft. for 1,000 lbs.

Car Opening Configurations and Coding



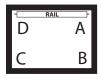




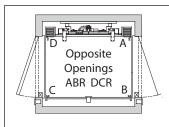








- 1- The D A is the side on which the rail is mounted.
- 2 The first letter refers to the attachment location of the gate.
- 3 The second letter refers to the location of the strike plate.
- 4 If present, the third letter "R" denotes a recessed gate.



Example: ABR DCR

First Gate - ABR A- gate attachment B - strike plate Second Gate - DCR D - gate attachment

R - recessed gate

C - strike plate R - recessed gate



- Use specified rail backing from architect to frame into wall.
- Hoistways illustrations below show finished dimensions. Finished hoistway dimensions include drywall, plaster and paint.
- A maximum of 3" (see "g" below) are allowed between the closed hoistway door and the outer edge of the landing sill.
- Determine height of hall station by local code.
- Rough frame door in place with an extra inch of space on each side of the door to allow for door installation.

The following examples are of a 1,000 lb. unit. Elevators are illustrated with accordion gates.

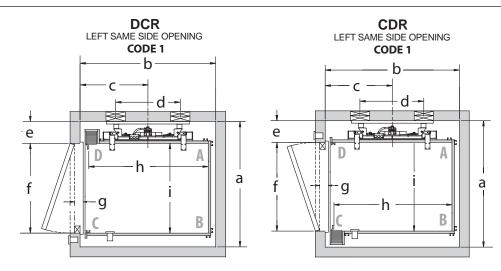
These symbols are listed beside the car size Waupaca Elevator believes to be best suited for use by wheelchair passengers and their accompanying attendant.



Recommended size for wheelchair passenger

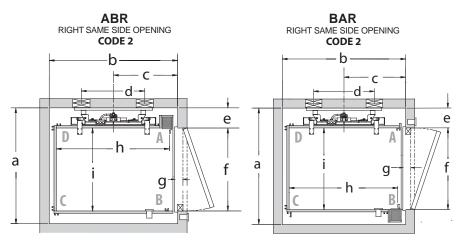


Recommended size for both wheelchair and attendant passengers

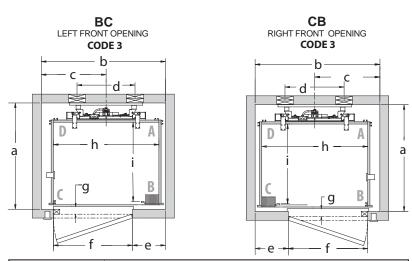


ELEVATOR HOISTWAY			PACA	LIFT EL	EVATO	OR HOIS	STWAY	DIME	NSIO	NS		
			0.4.0.0175		FINISHED HOISTWAY DIMENSIONS							
LAY	DUT	C.	AR SIZE	а	b	С	d	е	f	g	h	i
CODE 1	DCR		48" x 36"	50.25"	54.5"	27.25"	27.5"	8.75"	36"	3"	48"	36"
LEFT SAME	DCR	Ė	54" x 40"	54.25"	60.5"	30.25"	27.5"	12.75"	36"	3"	54"	40"
SIDE OPENING	DCR	İŁ	60" x 36"	50.25"	66.5"	33.25"	27.5"	8.75"	36"	3"	60"	36"
CODE 1	CDR		48" x 36"	51.25"	54.5"	27.25"	27.5"	8.75"	36"	3"	48"	36"
LEFT SAME	CDR	Ŗ	54" x 40"	53.75"	60.5"	30.25"	27.5"	8.75"	36"	3"	54"	40"
SIDE OPENING	CDR	١	60" x 36"	51.25"	66.5"	33.25"	27.5"	8.75"	36"	3"	60"	36"



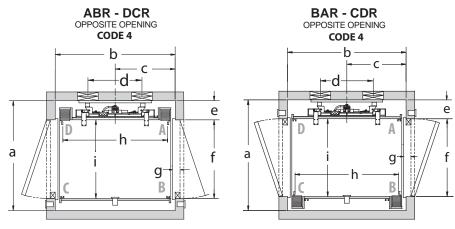


ELEV	ELEVATOR PAC		PACA LIFT ELEVATOR HOISTWAY DIMENSIONS										
HOIST					FINISHED HOISTWAY DIMENSIONS								
LAY	TUC	C,	AR SIZE	а	b	С	d	е	f	g	h	i	
CODE 2	ABR		48" x 36"	50.25"	54.5"	27.25"	27.5"	8.75"	36"	3"	48"	36"	
RIGHT SAME	ABR	F	54" x 40"	54.25"	60.5"	30.25"	27.5"	12.75"	36"	3"	54"	40"	
SIDE OPENING	ABR	İЬ	60" x 36"	50.25"	66.5"	33.25"	27.5"	8.75"	36"	3"	60"	36"	
CODE 2	BAR		48" x 36"	51.25"	54.5"	27.25"	27.5"	8.75"	36"	3"	48"	36"	
RIGHT SAME	BAR	Ė	54" x 40"	53.75"	60.5"	30.25"	27.5"	8.75"	36"	3"	54"	40"	
SIDE OPENING	BAR	ÌЬ	60" x 36"	51.25"	66.5"	33.25"	27.5"	8.75"	36"	3"	60"	36"	

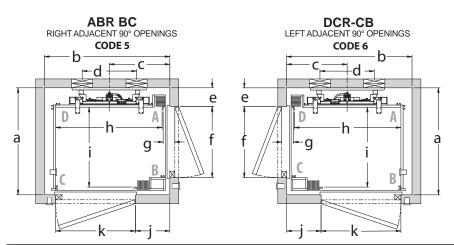


ELEVATOR			PACA L	JFT EL	EVATO	R HOIS	TWAY	DIME	NSIO	NS				
	HOISTWAY		045 0175		FINISHED HOISTWAY DIMENSIONS									
LAY	DUT		AR SIZE	а	b	С	d	е	f	g	h	i		
CODE 3	ВС		48" x 36"	48.25"	56.5"	29.5"	27.5"	15"	36"	3"	48"	36"		
LEFT	ВС	Ė	54" x 40"	52.25"	62.5"	32.5"	27.5"	21"	36"	3"	54"	40"		
FRONT OPENING	ВС	İŁ	60" x 36"	48.25"	68.5"	35.5"	27.5"	27"	36"	3"	60"	36"		
CODE 3	СВ		48" x 36"	48.25"	56.5"	29.5"	27.5"	15"	36"	3"	48"	36"		
RIGHT	СВ	Ė	54" x 40"	52.25"	62.5"	32.5"	27.5"	21"	36"	3"	54"	40"		
FRONT OPENING	СВ	İŁ	60" x 36"	48.25"	68.5"	35.5"	27.5"	27"	36"	3"	60"	36"		





ELEV	ELEVATOR		PACA LIFT ELEVATOR HOISTWAY DIMENSIONS											
HOIST			4 D. 017E	FINISHED HOISTWAY DIMENSIONS										
LAY	OUT	C.	AR SIZE	а	b	С	d	е	f	g	h	i		
CODE 4	ABR-DCR		48" x 36"	50.25"	55"	27.50"	27.5"	8.75"	36"	3"	48"	36"		
OPPOSITE OPENING	ABR-DCR	F	54" x 40"	54.25"	61"	30.50"	27.5"	12.75"	36"	3"	54"	40"		
OI LIVIIVO	ABR-DCR	İŁ	60" x 36"	50.25"	67"	33.50"	27.5"	8.75"	36"	3"	60"	36"		
CODE 4	BAR-CDR		48" x 36"	51.25"	55"	27.50"	27.5"	8.75"	36"	3"	48"	36"		
OPPOSITE OPENING	BAR-CDR	Ė	54" x 40"	53.75"	61"	30.50"	27.5"	8.75"	36"	3"	54"	40"		
OPENING	BAR-CDR	þЬ	60" x 36"	51.25"	67"	33.50"	27.5"	8.75"	36"	3"	60"	36"		



ELEV	ELEVATOR PA			PACA LIFT ELEVATOR HOISTWAY DIMENSIONS											
	HOISTWAY				FINISHED HOISTWAY DIMENSIONS										
LAY	OUT	C,	AR SIZE	а	b	С	d	е	f	g	h	i	j	k	
CODE 5	ABR-BC		48" x 36"	48.25"	56.5"	27.25"	27.5"	8.5"	32"	3"	48"	36"	15.5"	36"	
RIGHT ADJACENT	ABR-BC	Ė	54" x 40"	52.25"	62.5"	30.25"	27.5"	8.5"	36"	3"	54"	40"	21.5"	36"	
90° OPENING	ABR-BC	İŁ	60" x 36"	48.25"	68.5"	33.25"	27.5"	8.5"	32"	3"	60"	36"	27.5"	36"	
CODE 6	DCR-CB		48" x 36"	48.25"	56.5"	27.25"	27.5"	8.5"	32"	3"	48"	36"	15.5"	36"	
LEFT ADJACENT	DCR-CB	F	54" x 40"	52.25"	62.5"	30.25"	27.5"	8.5"	36"	3"	54"	40"	21.5"	36"	
90° OPENING	DCR-CB	ľЬ	60" x 36"	48.25"	68.5"	33.25"	27.5"	8.5"	32"	3"	60"	36"	27.5"	36"	

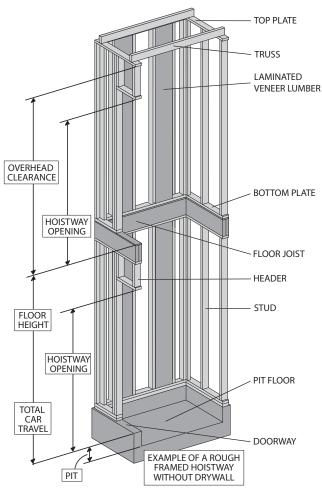


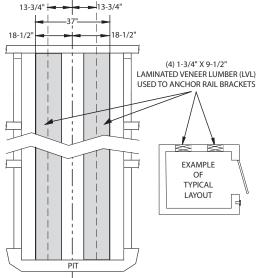
Hoistway Illustration - Paca-Lift

The typical layouts shown here may vary from your actual hoistway. The purpose of these layouts are for a general understanding. Please refer to the Waupaca Elevator drawings and specifications that will be provided by the company.

CENTER LINE

Of RAIL WALL





These drawings depict sample construction only. It is the responsibility of the installer/contractor or engineer to design and specify structural supports. All construction to be in compliance with local codes.



Hoistway Specifications - Paca-Lift

Refer to Illustration on previous page

ATTENTION CONSTRUCTION CONTRACTOR:

This is an example of a winding drum hoistway. Job specific documentation will be provided by Waupaca Elevator from which to construct the hoistway.

Hoistway Construction Requirements

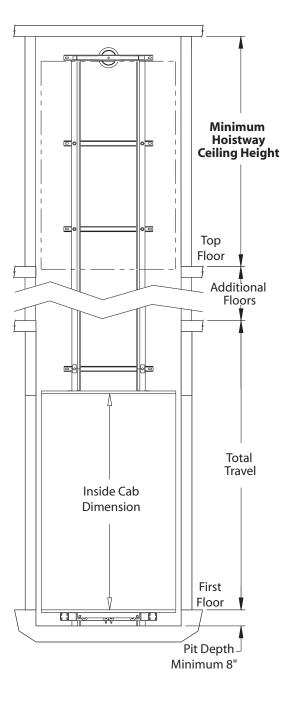
(to be completed prior to elevator installation by contractor)

1. Electrical Requirements:

- Dedicated 230 VAC 30 AMP Circuit Single Phase with a 25 AMP slow blow fuse.
- Power supply to be installed in a lockable fused disconnect.
- 120 VAC 15 Amp Circuit Single Phase with manual disconnect & 15 AMP protection.
- Electrical wiring to comply with applicable codes.
- 2. **Unfinished/Un-installed Door** Installation company may prefer a minimum of one hoistway door and associated framing be left unfinished/un-installed to accommodate elevator installation equipment and to prevent accidental damage to door and framing (preferably at grade level).
- 3. **Plumb and Square Hoistway** Hoistway must be plumb within 1/8 inch per 10 ft. of height and square at any point within 1/4 inch based on difference in diagonal measurements.
- 4. **Supportive Structure** Structure must be capable of supporting the appropriate loads. Local engineering support is recommended.
- 5. **Telephone Connection** Code requires a telephone connection to the elevator car, therefore, a phone line must be installed leading to the controller.
- 6. **ASME 17.1 Part 5.3** Hoistway to be constructed in accordance with ASME17.1 Part 5.3 and all local codes.
- 7. **Hoistway Door Security (Interlocks)** All hoistway doors require interlocks as well as a door handle and a latch set. Interlocks will be installed by the elevator installers. Waupaca Elevator recommends the use of solid core doors.
- 8. **Temperature Requirements** Hoistway and machine room temperature should be maintainable between 60° F-110° F and should not be exposed to the elements.
- 9. **No Alterations** Any alterations to the equipment without written authorization by Waupaca Elevator will void all warranties.
- 10. **Pit Floor Strength** A pit floor must be designed to withstand a load of 4,000 lbs. When used, concrete must be a minimum of 4" thick and rated at 3500 PSI.



Elevation and Hoistway Ceiling Heights - Paca-Lift



Waupaca Elevator's Paca Lift offers a total of five stops and a total travel distance of 50 feet.

Minimum Hoistway Ceiling Heights*

Inside Cab Dimension	6′10″	7′ 0″	7′ 4″	8′0″
Minimum Hoistway Ceiling Height	7′10″	8′0″	8′ 4″	9′0″

* Custom sized cabs will alter these dimensions. Waupaca Elevator will provide you with the appropriate dimensions.

Pit Depth

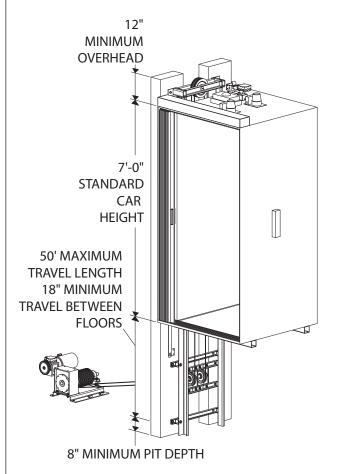
When the machine is located in the pit, the minimum pit depth is 24".

All other layouts require a minimum of 8" pit.

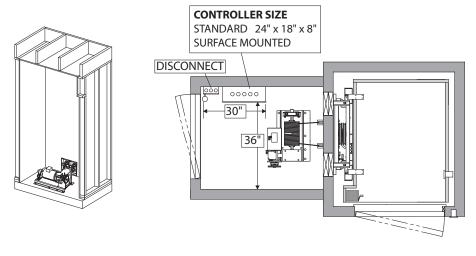


Controller Space - Paca-Lift

Typical Layout



- 1. The Controller requires minimum clear space of 30"x 36" located directly in front of the controller (refer to illustration).
- 2. A lockable service disconnect must be placed within sight of the controller and must be easily accessible, from the latch side of the doorway (if door is present).
- 3. Controller space must be provided for the operating equipment that meets national electrical code clear space requirements and all local codes. Controller space must provide a convenience outlet and light with switch. Temperatures must be maintained between 60°-110°F (with a relative humidity not to exceed 95%).



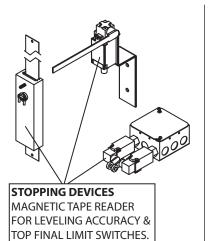


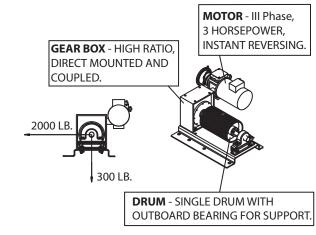
Elevator Equipment - Paca-Lift

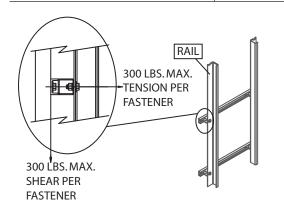
Typical

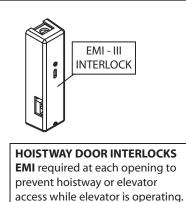
- Powerhead
- Main Rail
- Gear Box

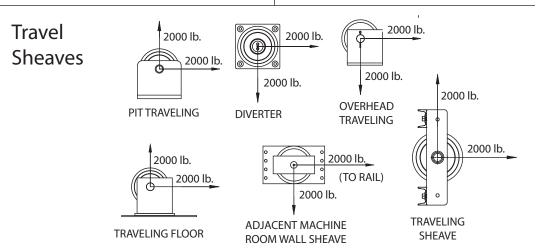
- Interlocks
- Motor
- Drum













Paca-Lift Elevator Series 018

