

Planning Guide

Residential Elevators

J Rail System with Winding Drum Technology

Series 018 - Paca Lift 118 - Paca Lift



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's 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.

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

Table of Contents

Introduction & Planning Steps	
Design Features	5
Hoistway Layouts	6-9
Hoistway Illustrations	10
Hoistway Specifications	11
Hoistway Elevation View	12
Controller Location & Electrical Space	13
Elevator Equipment	14
Series 018/118 Mechanical Illustrations	15



Introduction

This Planning Guide is to be used as a reference 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.

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. Waupaca Elevator Company, Inc., elevators manufactured and installed under the proper parameters are under warranty for 2 years. Manufacturer assumes no liability for equipment not installed in compliance with these codes.

Waupaca Elevator Company, Inc., reserves the right to modify the design, technical specifications and dimensions of the products shown in this document.

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 (if required)
 - 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.

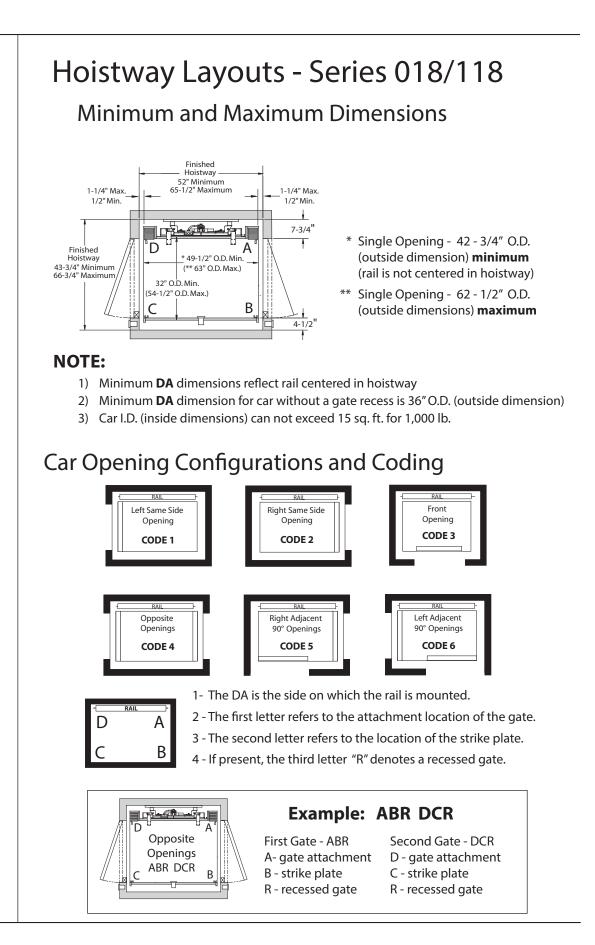


Design Features of :

J Rail System with Winding Drum Technology Series: 018/118 - Remote Machine Room

- Modular Design Built on J Rail System
- Utilizes Proven Winding Drum Technology to Build Reliability
- Durable Cantilever Sling Design
- System Free of Hydraulic Oil
- PLC Control System with Variable Frequency Drive
- Tape Reader Locates Floors with Magnetic Sensor
- Sling Movement Translates Through Gliding Blocks







Hoistway Layouts - Series 018/118

Construction Notes:

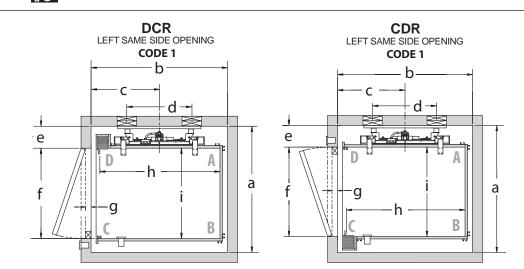
- Use specified rail backing from architect to frame into wall.
- Hoistways illustrations below show finished dimensions. Finished hoistway dimensions include drywall, plaster and paint.
- A maximum of 3" (see "g" below) are allowed between the closed hoistway door and the outer edge of the landing sill.
- 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 units up to 1,000 lbs. Elevators are illustrated with accordion gates. The following layouts were designed for travel up to 50 feet.

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

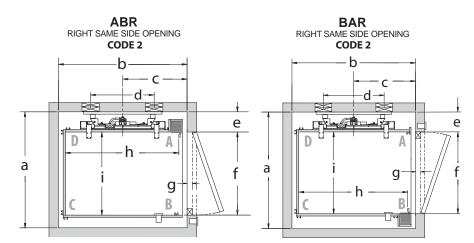
Recommended size for both wheelchair and attendant passengers



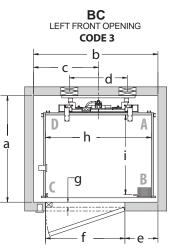
ELEVATOR HOISTWAY			PACA LIFT ELEVATOR HOISTWAY DIMENSIONS											
					FINISHED HOISTWAY DIMENSIONS									
LAY	JUT	C	CAR SIZE		b	с	d	е	f	g	h	i		
CODE 1	DCR		48" x 36"	50.25"	53.75"	26.5"	27.5"	8.75"	36"	3"	48"	36"		
LEFT SAME	DCR	Ŷ	54" x 40"	54.25"	59.75"	29.5"	27.5"	12.75"	36"	3"	54"	40"		
SIDE OPENING	DCR	ال له	60" x 36"	50.25"	65.75"	32.5"	27.5"	8.75"	36"	3"	60"	36"		
CODE 1	CDR		48" x 36"	51.25"	53.75"	26.5"	27.5"	8.75"	36"	3"	48"	36"		
LEFT SAME	CDR	F	54" x 40"	53.75"	59.75"	29.5"	27.5"	8.75"	36"	3"	54"	40"		
SIDE OPENING	CDR	أ لار	60" x 36"	51.25"	65.75"	32.5"	27.5"	8.75"	36"	3"	60"	36"		

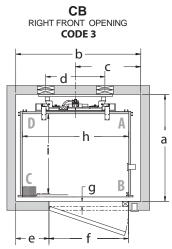


Hoistway Layouts - Series 018/118



ELEVATOR HOISTWAY			PACA LIFT ELEVATOR HOISTWAY DIMENSIONS											
					FINISHED HOISTWAY DIMENSIONS									
LAY	JUT	C.	AR SIZE	а	b	с	d	е	f	g	h	i		
CODE 2	ABR		48" x 36"	50.25"	53.75"	26.5"	27.5"	8.75"	36"	3"	48"	36"		
RIGHT SAME	ABR	Ġ	54" x 40"	54.25"	59.75"	29.5"	27.5"	12.75"	36"	3"	54"	40"		
SIDE OPENING	ABR	ie.	60" x 36"	50.25"	65.75"	32.5"	27.5"	8.75"	36"	3"	60"	36"		
CODE 2	BAR		48" x 36"	51.25"	53.75"	26.5"	27.5"	8.75"	36"	3"	48"	36"		
RIGHT SAME	BAR	Ġ	54" x 40"	53.75"	59.75"	29.5"	27.5"	8.75"	36"	3"	54"	40"		
SIDE OPENING	BAR	أ لار	60" x 36"	51.25"	65.75"	32.5"	27.5"	8.75"	36"	3"	60"	36"		

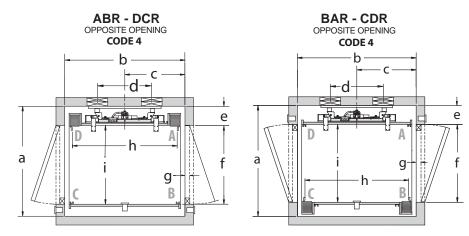




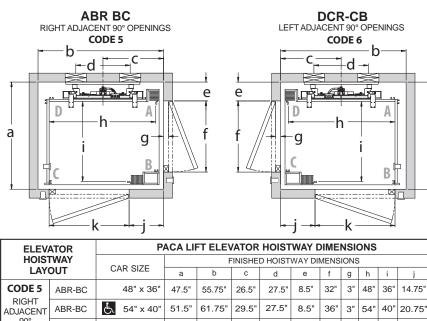
ELEVATOR HOISTWAY			PACA LIFT ELEVATOR HOISTWAY DIMENSIONS											
					FINISHED HOISTWAY DIMENSIONS									
LAY	OUT		AR SIZE	а	b	с	d	е	f	g	h	i		
CODE 3	BC		48" x 36"	47.5"	56.5"	29.5"	27.5"	15"	36"	3"	48"	36"		
LEFT	BC	Ŷ	54" x 40"	51.5"	62.5"	32.5"	27.5"	21"	36"	3"	54"	40"		
FRONT OPENING	BC	أ لجر	60" x 36"	47.5"	68.5"	35.5"	27.5"	27"	36"	3"	60"	36"		
CODE 3	СВ		48" x 36"	47.5"	56.5"	29.5"	27.5"	15"	36"	3"	48"	36"		
RIGHT	СВ	F	54" x 40"	51.5"	62.5"	32.5"	27.5"	21"	36"	3"	54"	40"		
FRONT OPENING	СВ	أب د	60" x 36"	47.5"	68.5"	35.5"	27.5"	27"	36"	3"	60"	36"		

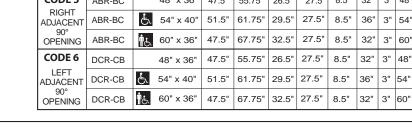


Hoistway Layouts - Series 018/118



ELEVATOR HOISTWAY LAYOUT		PACA LIFT ELEVATOR HOISTWAY DIMENSIONS												
					FINISHED HOISTWAY DIMENSIONS									
		CAR SIZE		а	b	с	d	е	f	g	h	i		
CODE 4	ABR-DCR		48" x 36"	50.25"	53.5"	26.75"	27.5"	8.75"	36"	3"	48"	36"		
OPPOSITE OPENING	ABR-DCR	Ę٢	54" x 40"	54.25"	59.5"	29.75"	27.5"	12.75"	36"	3"	54"	40"		
	ABR-DCR	İ Ł	60" x 36"	50.25"	65.5"	32.75"	27.5"	8.75"	36"	3"	60"	36"		
CODE 4	BAR-CDR		48" x 36"	51.25"	53.5"	26.75"	27.5"	8.75"	36"	3"	48"	36"		
OPPOSITE	BAR-CDR	Ė	54" x 40"	53.75"	59.5"	29.75"	27.5"	8.75"	36"	3"	54"	40"		
OPENING	BAR-CDR	أ لار	60" x 36"	51.25"	65.5"	32.75"	27.5"	8.75"	36"	3"	60"	36"		







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36"

36'

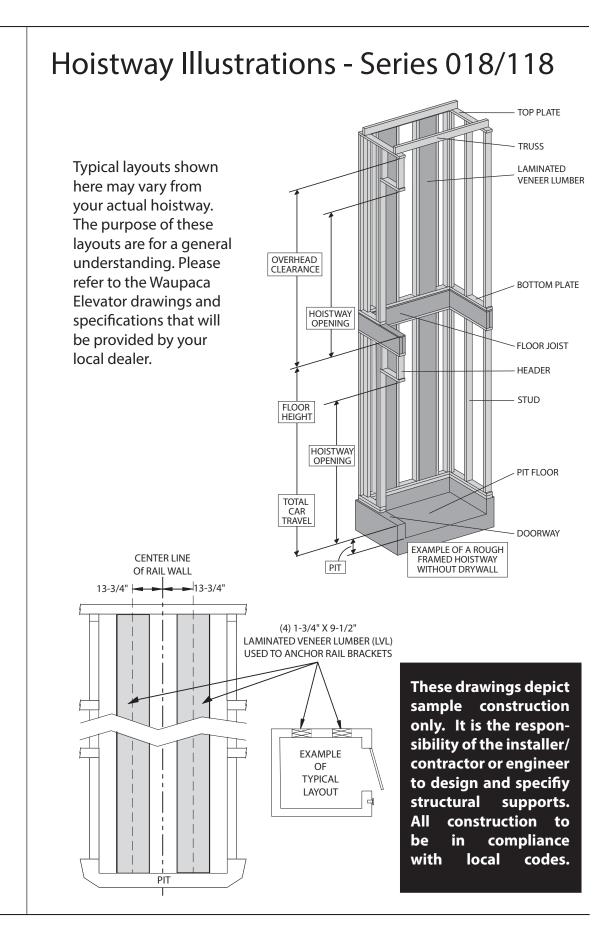
36"

36" 26.75" 36

36" 14.75" 36'

40" 20.75" 36"

36" 26.75"





Hoistway Specifications - Series 018/118

ATTENTION CONSTRUCTION CONTRACTOR:

This is an example of a 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 By Others:

- Dedicated 230 VAC 35 AMP Circuit Single Phase with ground, 60 Hz.
- A fused disconnect switch with branch 3 pole circuit wired to suit 30 amp service fused for 30 AMP dual element time delay fuse.
- 120 VAC 15 Amp Circuit Single Phase with manual disconnect & 15 AMP protection. - Electrical wiring to comply with applicable codes.

NOTE :

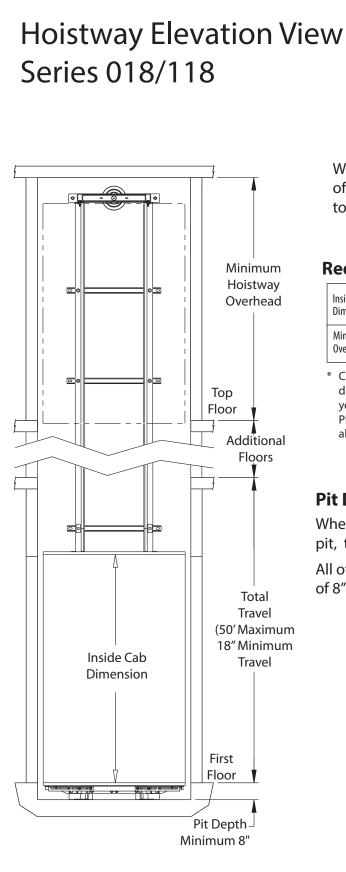
Electrical requirements are for general reference only. All job specific electrical requirements must be acquired from job specific drawings provided by Waupaca Elevator Company, Inc.

- 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 Section 5.3** Hoistway to be constructed in accordance with ASME 17.1 section 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.
- Hoistway Requirements Any operating equipment must meet N.E.C. code and all local codes. Machine space (if applicable) must have a light switch and a convenience outlet. Temperature must be maintainable between 60° - 110° F and must not be exposed to the elements (with a relative humidity not to exceed 95%). NOTE:

The frequency drive fan may be heard running for thermal heat dissipation at any time.

- 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.
- 11. **Rated Load** Elevator system is rated for maximum capacity from the factory. Flooring, walls, trim, base, and/or permanent decor added to elevator car must be subtracted from car capacity.





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

Required Overhead Heights

Inside Cab Dimension	6′10″	7′0″	7′4″	8′0″
Minimum Overhead	7′ 10″	8′0″	8′ 4″	9′0″

 Custom sized cabs will alter these dimensions. Waupaca Elevator will provide you with the appropriate dimensions.
Please contact your local dealer to acquire alternate layouts.

Pit Depth

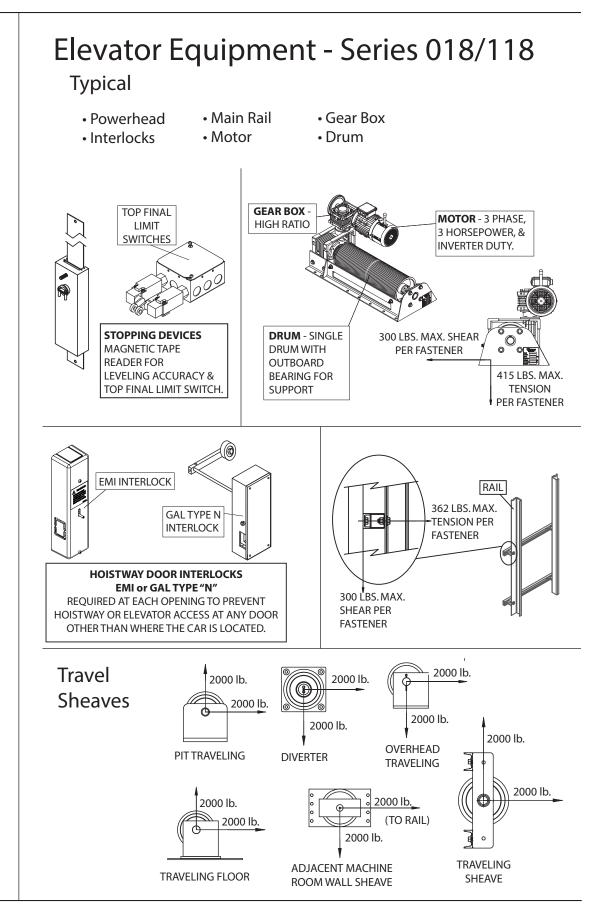
When the machine is located in the pit, the minimum pit depth is 24".

All other layouts require a minimum of 8" pit.

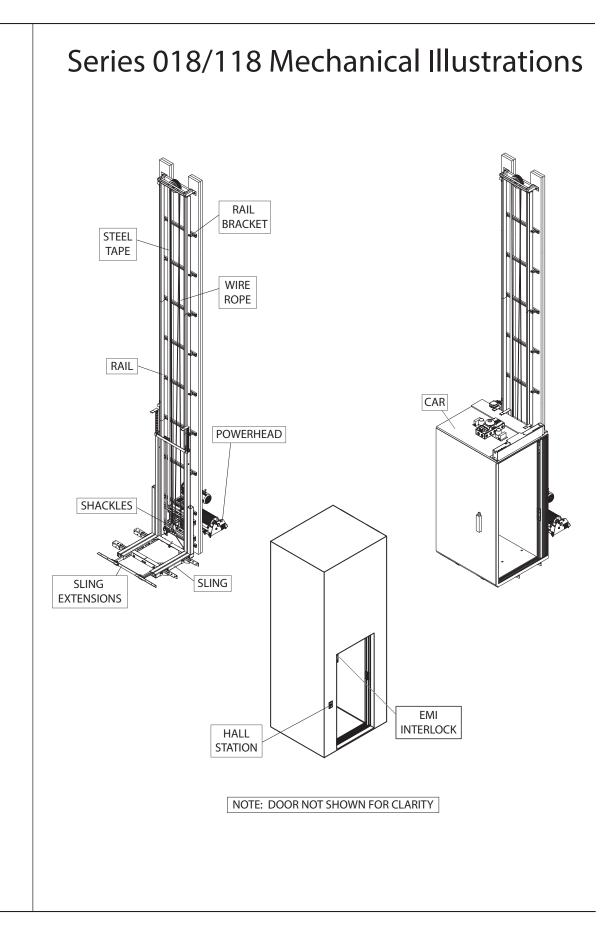


Controller Location and Electrical Space - Series 018/118 **Typical Layout** 1. The controller requires a clear 12″ minimum space of 36" x 30" REOUIRED located directly in front of the **OVERHEAD** controller (refer to illustration). 2. A lockable service disconnect must be placed within sight of the controller and must be STANDARD easily accessible, from the latch CAR side of the doorway (if door is HEIGHT present). 3. Controller space must be provided for the operating equipment that meets national electrical code clear space 50' MAXIMUM requirements and all local TRAVEL LENGTH codes. Controller space must 18" MINIMUM provide a convenience outlet TRAVEL BETWEEN and light with switch. FLOORS Temperatures must be maintained between 60°-110°F and must not be exposed to the elements (with a relative humidity not to exceed 95%). NOTE: 8" MINIMUM PIT DEPTH The frequency drive fan may be heard running for thermal heat dissipation at any time. Disconnect 36″ 30' E **CONTROLLER SIZE** STANDARD 24-1/2" X 24-1/2" X 8" SURFACE MOUNTED











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