



Planning Guide

Residential Hydraulic Elevators

Built on T or J-Rail

Series 114 - Excelelevator Series
Series 116 - Paca Ryde

Waupaca Elevator's Mission Statement

Our mission is to deliver and support an enhanced quality of life for people with a need, or want, for vertical transportation. We are dedicated to our relationships, products, and industry through teamwork and education.

Members Of:

Waupaca Elevator Company, Inc. is a proud member of The American Society of Mechanical Engineers, The National Association Elevators Contractors, The Canadian Elevator Contractor Association, The Accessibility Equipment Manufacturers Association. These symbols assures you of our commitment to high quality and accessibility to everyone.



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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 Electrical Code, American Society of Mechanical Engineers Safety Code, and state and local building codes. Waupaca Elevators products are designed to meet the residential elevator requirements of ASME A17.1 Safety Code for Elevators and Escalators. The 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

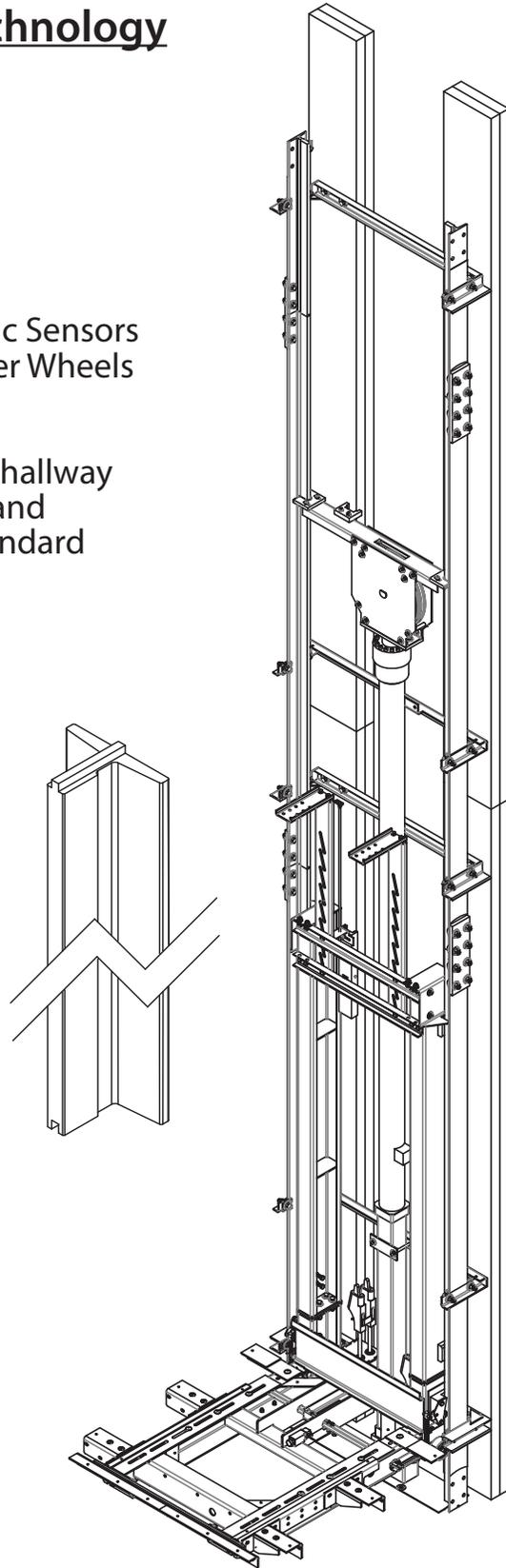
Locate a local dealer and custom design your elevator together. Congratulations on choosing a hydraulic drive system. If you prefer a winding drum power based elevator please locate and use the Planning Guide for Residential Elevators with Winding Drum Technology. Please complete steps below to finish creating your elevator package.

1. Select rail system.
2. Layout machine room, and location.
3. Plan for electrical requirements.
4. Address national, state, and local code requirements
5. Determine hoistway size, car size, layout configuration and available options. Please reference a Waupaca Elevator Brochure for available design options: cab style, car operating panels, hall stations, phone boxes, handrails, light fixtures, and gates.
6. Obtain and follow site specific field drawings. Forward all necessary documents to contractor/builder, architect, and structural engineers. Use job specific drawings while building hoistway, doorways, machine room, and any other construction related to the elevator.
7. Coordinate with your dealer to install elevator, and enjoy you custom designed elevator.

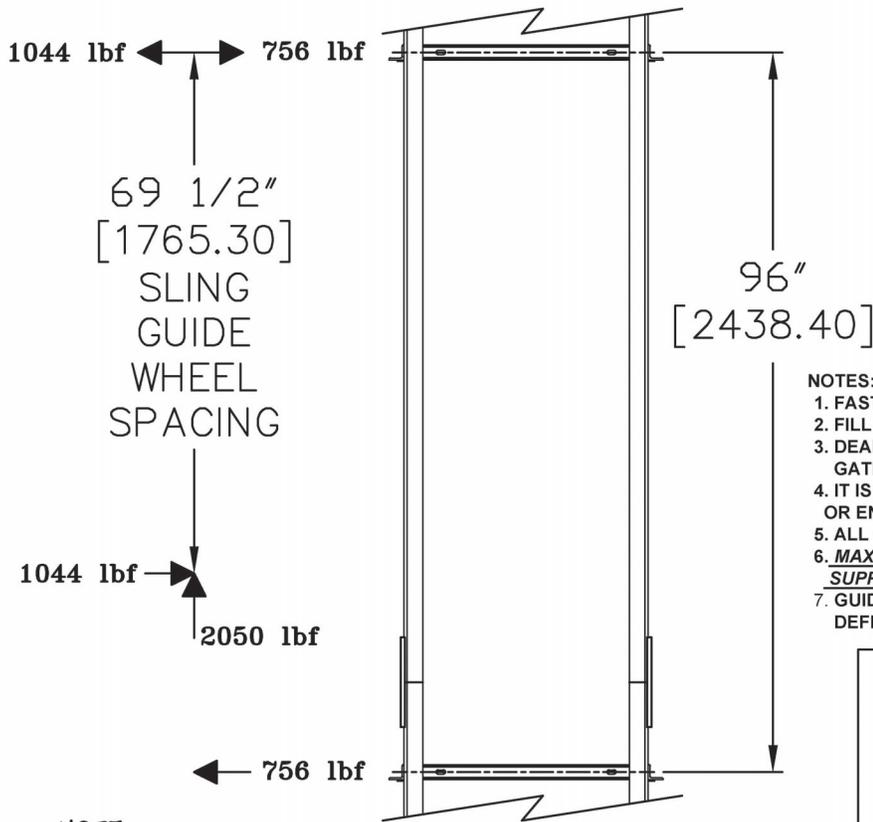
Design Features & Mechanical Illustrations

T-Rail System with Hydraulic Technology (Series 114)

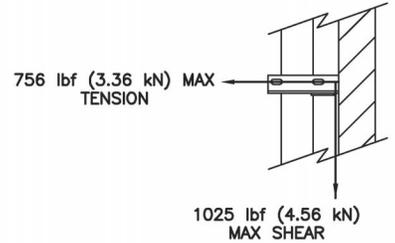
- Design Built on 8 LBS. T-Rail System
- Each Section is Up to 8 Feet Long
- Durable Cantilever Sling Design
- PLC Control System
- Multi Coil Valve
- Tape Reader Locates Floors with Magnetic Sensors
- Sling Movement Translates Through Roller Wheels
- Field Programmable Homing
- Adjustable EMI Light Timers
- Position Indicator available in car and/or hallway
- Emergency Manual Hand Raising Pump and
Emergency Manual Lowering Knob is standard



MAXIMUM LIVE (STATIC) LOAD = 1000 lbf
MAXIMUM DEAD (STATIC) LOAD = 1050 lbf (SEE NOTE #3)
MAXIMUM TOTAL (STATIC) LOAD = 2050 lbf
MAXIMUM SHEAR (STATIC) PER BRACKET = 1025 lbf (257 lbf PER FASTENER)
MAXIMUM TENSION (STATIC) PER BRACKET = 756 lbf (189 lbf PER FASTENER)



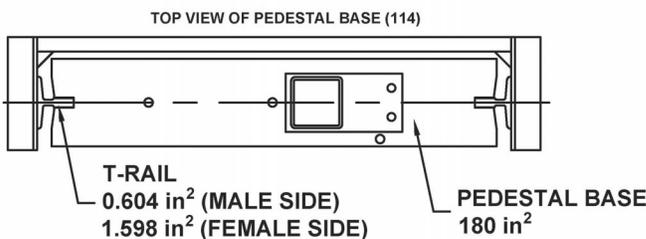
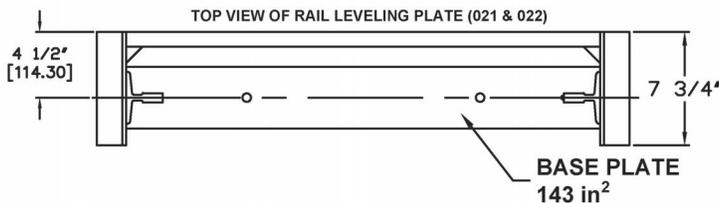
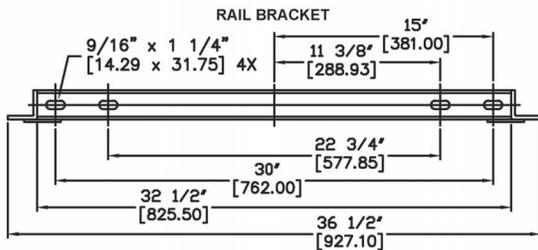
SIDE VIEW OF RAIL BRACKET



NOTES:

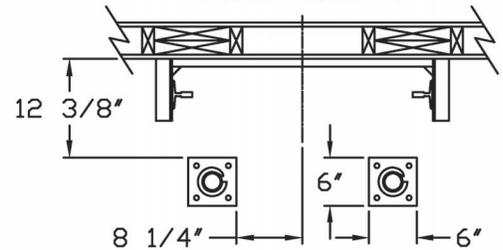
1. FASTENERS BY OTHERS.
2. FILL ALL ANCHOR POINTS.
3. DEAD LOAD OF ELEVATOR INCLUDES SLING, CAB, FLOORING GATE(S), ETC. AND ALL PERMANENT FIXTURES.
4. IT IS THE RESPONSIBILITY OF THE INSTALLER/CONTRACTOR OR ENGINEER TO DESIGN AND SPECIFY STRUCTURAL SUPPORTS.
5. ALL CONSTRUCTION TO BE IN COMPLIANCE WITH LOCAL CODES.
6. MAXIMUM RAIL BRACKET TENSION/SHEAR MOVES UP AND DOWN SUPPORT WALL AT 40 FEET PER MINUTE.
7. GUIDE RAIL SUPPORT WALL CANNOT EXCEED 1/8" OF TOTAL DEFLECTION AT POINT OF SUPPORT. (PER ASME A17.1 2.23.5.2)

NOTE:
 ALL DIMENSIONS ARE IN INCHES.
 DIMENSIONS IN [] ARE MM.



(BUFFER SPRINGS ARE PROVIDED WHEN PIT DEPTH IS 17" OR GREATER)

BUFFER SPRING LOCATION EXCELEVATOR



Impact Load Per Spring (Per ASME A17.1 8.2.3.2)

1/2 Weight of Dead and Live Load	1025 lbs
Maximum Stroke of Buffer Spring	2.71 in
	0.226 ft
Impact	2148 lbs



1726 North Ballard Road
 Appleton, WI 54911
 Phone: 800-238-8739

ELEVATOR CONTRACTOR:

JOB NAME:

ORDER NUMBER:

EXCELEVATOR-SERIES
RAIL AND PIT FLOOR REACTIONS

DRAWN BY:

DATE:

SIGNATURE OF APPROVAL

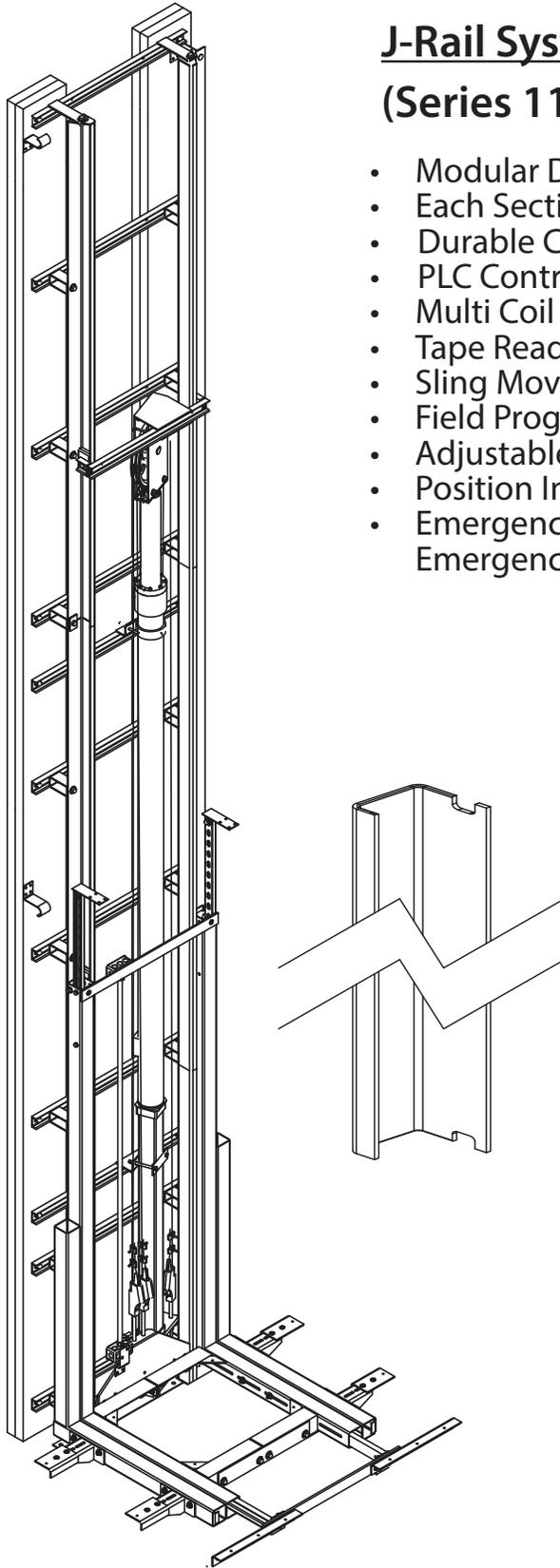
DWG. NO.

C-003071

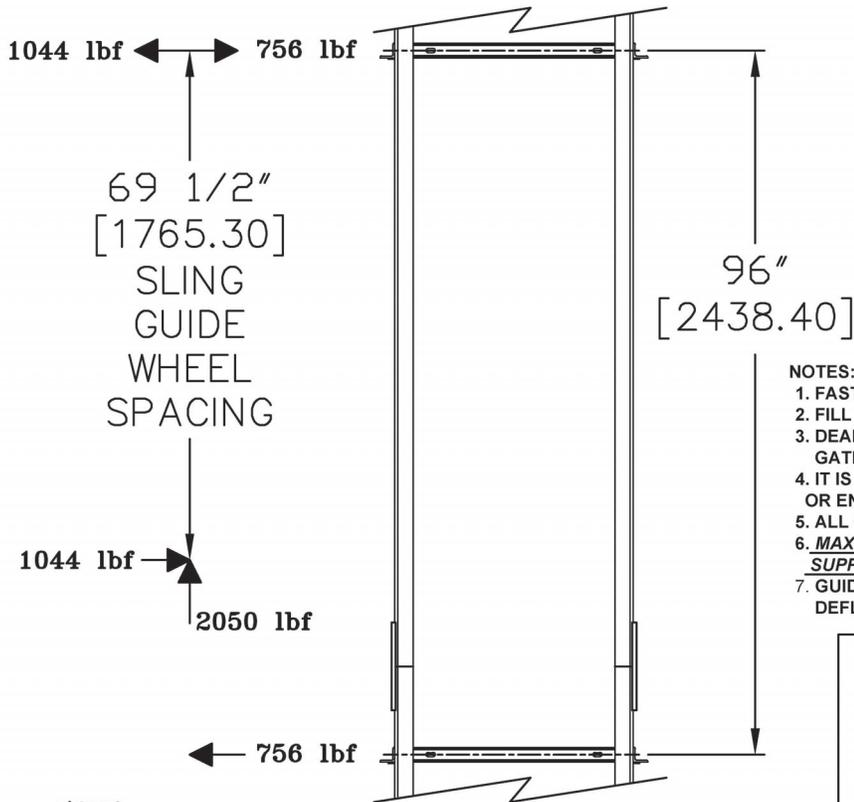
Design Features & Mechanical Illustrations

J-Rail System with Hydraulic Technology (Series 116)

- Modular Design Built on J-Rail System
- Each Section is Up to 8 Feet Long
- Durable Cantilever Sling Design
- PLC Control System
- Multi Coil Valve
- Tape Reader Locates Floors with Magnetic Sensors
- Sling Movement Translates Through Gliding Blocks
- Field Programmable Homing
- Adjustable EMI Light Timers
- Position Indicator available in car and/or hallway
- Emergency Manual Hand Raising Pump and
Emergency Manual Lowering Knob is standard

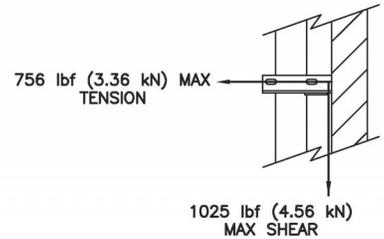


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MAXIMUM TENSION (STATIC) PER BRACKET = 756 lbf (189 lbf PER FASTENER)



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 DIMENSIONS IN [] ARE MM.

SIDE VIEW OF RAIL BRACKET

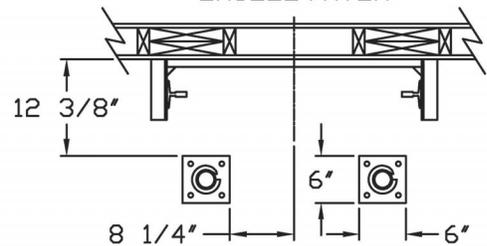


NOTES:

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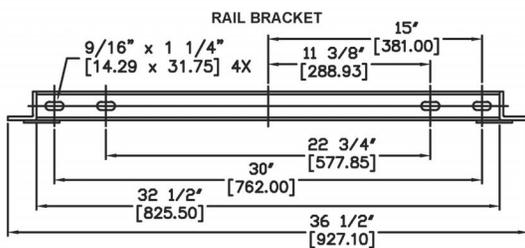
(BUFFER SPRINGS ARE PROVIDED WHEN PIT DEPTH IS 17" OR GREATER)

BUFFER SPRING LOCATION EXCELEVATOR

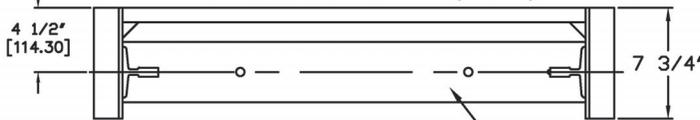


Impact Load Per Spring (Per ASME A17.1 8.2.3.2)

1/2 Weight of Dead and Live Load	1025 lbs
Maximum Stroke of Buffer Spring	2.71 in
Impact	2148 lbs

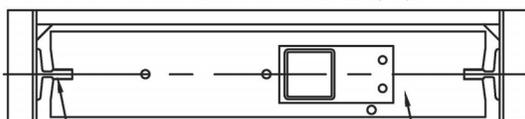


TOP VIEW OF RAIL LEVELING PLATE (021 & 022)



BASE PLATE
143 in²

TOP VIEW OF PEDESTAL BASE (114)



T-RAIL
0.604 in² (MALE SIDE)
1.598 in² (FEMALE SIDE)

PEDESTAL BASE
180 in²



1726 North Ballard Road
 Appleton, WI 54911
 Phone: 800-238-8739

ELEVATOR CONTRACTOR:

JOB NAME:

ORDER NUMBER:

EXCELEVATOR-SERIES
RAIL AND PIT FLOOR REACTIONS

DRAWN BY:

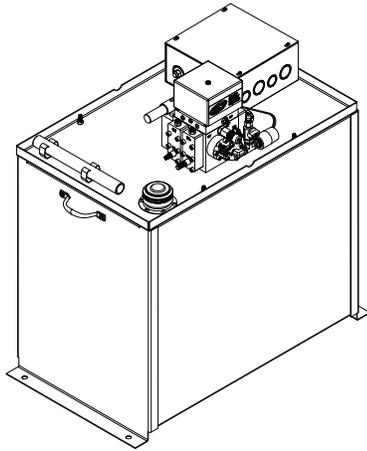
DATE:

SIGNATURE OF APPROVAL

DWG. NO.

C-003071

Elevator Equipment - Hydraulic Elevator



Power Unit

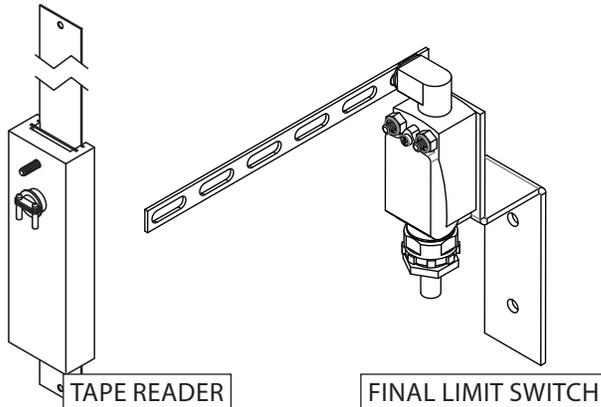
Equipped with constant displacement rotary screw pump powered by 3.0 horsepower, 230 volt single phase motor.

Oil Tank

Requires approximately 20 gallons of AW-32 high grade hydraulic oil. Also compatible with AW-46 and biodegradable (vegetable) hydraulic oil

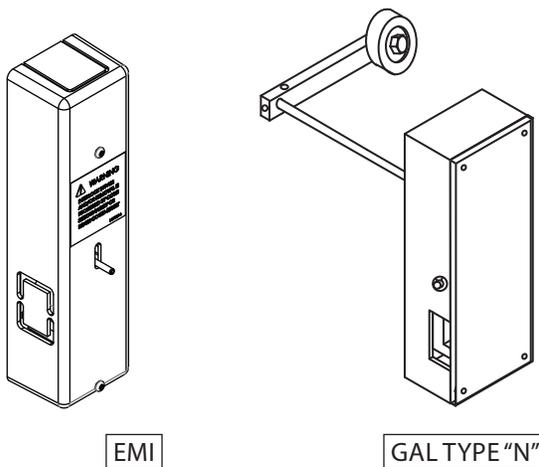
Valve

Two speeds for smooth starts and stops working pressure approximately 600 PSI at approximately 8.6 GPM.



Stopping Devices

Magnetic tape reader for leveling accuracy & top final limit switch.



Hoistway door interlocks EMI or GAL Type "N"

To prevent the opening of the hoistway door from landing side unless the car is within landing zone or stopped at landing.

Hoistway Specifications - Hydraulic Elevator

ATTENTION CONSTRUCTION CONTRACTOR:

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 up to 35 AMP circuit single phase with ground and neutral, 60 Hertz.
- A fused disconnect switch with branch 3 pole circuit wire to suit a 30 AMP service, fused for 30 AMP dual element (time delay fuse) with neutral.
- 115 Volt, 15 AMP single phase circuit for car lighting.
- Electrical wiring to comply with applicable codes.
- Any VAC other than 230 VAC may require a buck/boost transformer.

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. It must also be capable of working for 4 hours during a power outage.
- 6. ASME A17.1 Section 5.3** - Hoistway to be constructed in accordance with ASME A17.1 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 requires the use of solid core doors and recommends spring door hinges.
- 8. Hoistway Requirements** - Any operating equipment must meet National Electrical Code and all local codes. Machine space 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%).
- 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.
- 12. Verify Code Requirements** - Verify national, state, and local code requirements are all met before installation.

Machine Space, Controller Install & Wiring

- Locate controller enclosure in the machine room as required by code.
- Wire gauge requirements:
 - 10 gauge wire for power to motor
 - 14 gauge for solenoid coils
 - 18 for all low voltage
- Refer to unit specific schematics in field drawings to complete wiring.
Wire per N.E.C. and local codes.

Note: Not all controller terminals or travel cable wire may be used. High voltage and low voltage wire must run separate and only cross over perpendicular to each other.

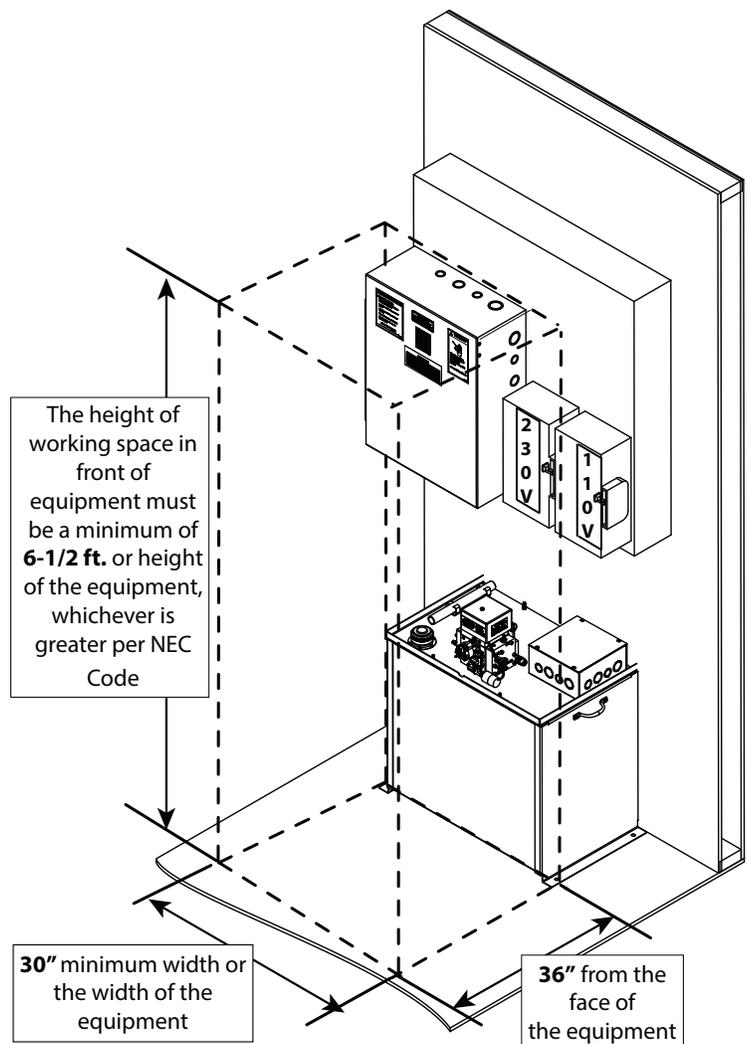
- Locate and check for correct fuse sizes.

Per NEC Code 110.26

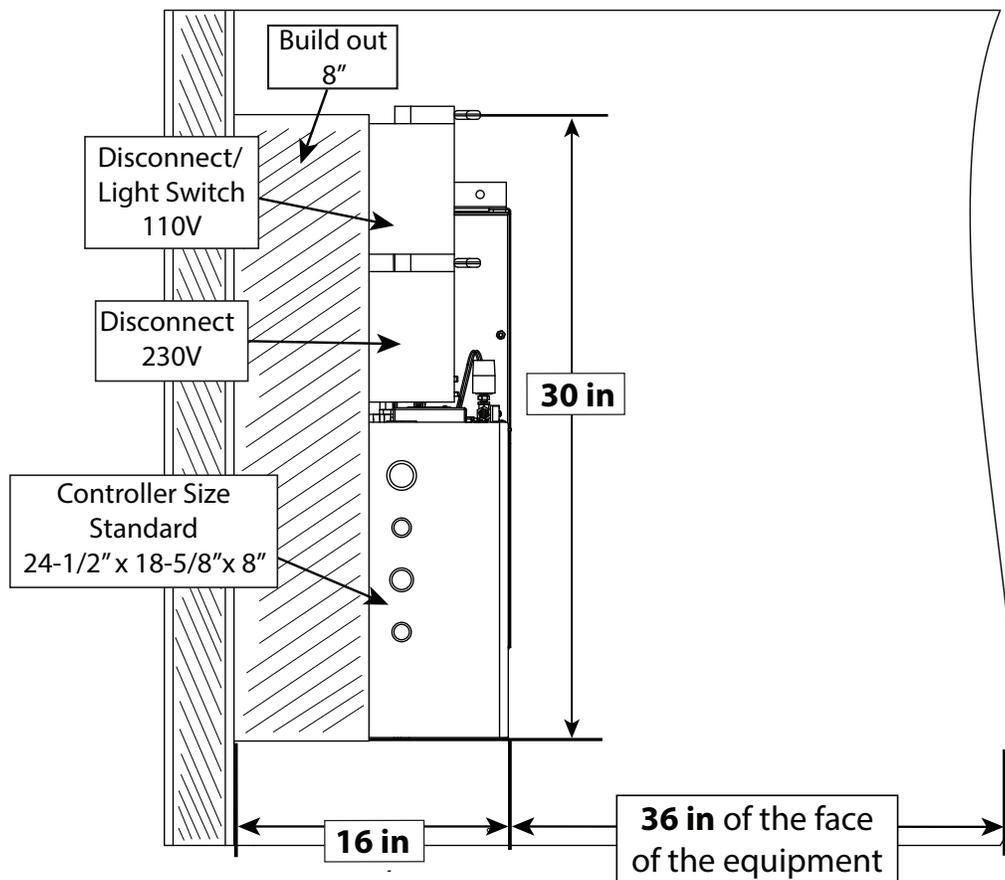
Clear Working Space. The working space required by this section must be clear at all times. **Therefore, this space isn't permitted for storage.** When normally enclosed live parts are exposed for inspection or servicing, the working space, if in a passageway or general open space, must be suitably guarded.

Working Space. Equipment that may need examination, adjustment, servicing, or maintenance while energized must have working space provided in accordance with (1), (2), and (3):

1. Depth of Working Space. The working space, which is measured from the enclosure front, must not be less than the distance of 36".
2. Width of Working Space. The width of the working space must be a minimum of 30", but in no case less than the width of the equipment.



Machine Space, Controller Install & Wiring Cont.



Per NEC Code 110.26 Continued

1. Height of Working Space (Headroom). The height of the working space in front of equipment must not be less than 6½' measured from the grade, floor, platform, or the equipment height, whichever is greater.

Other equipment must not extend more than 6" into the controller working space.

Additional Notes

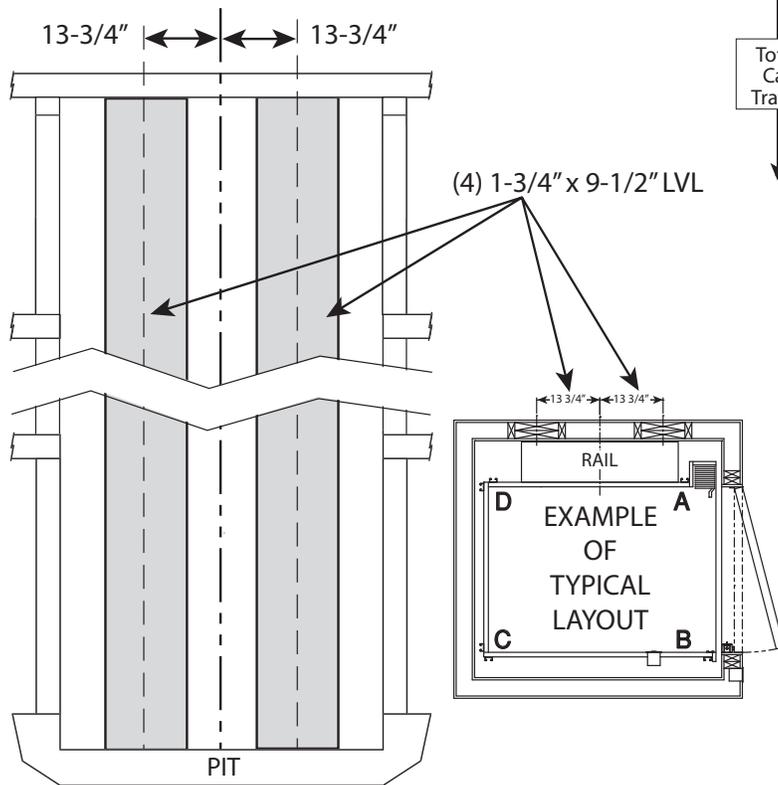
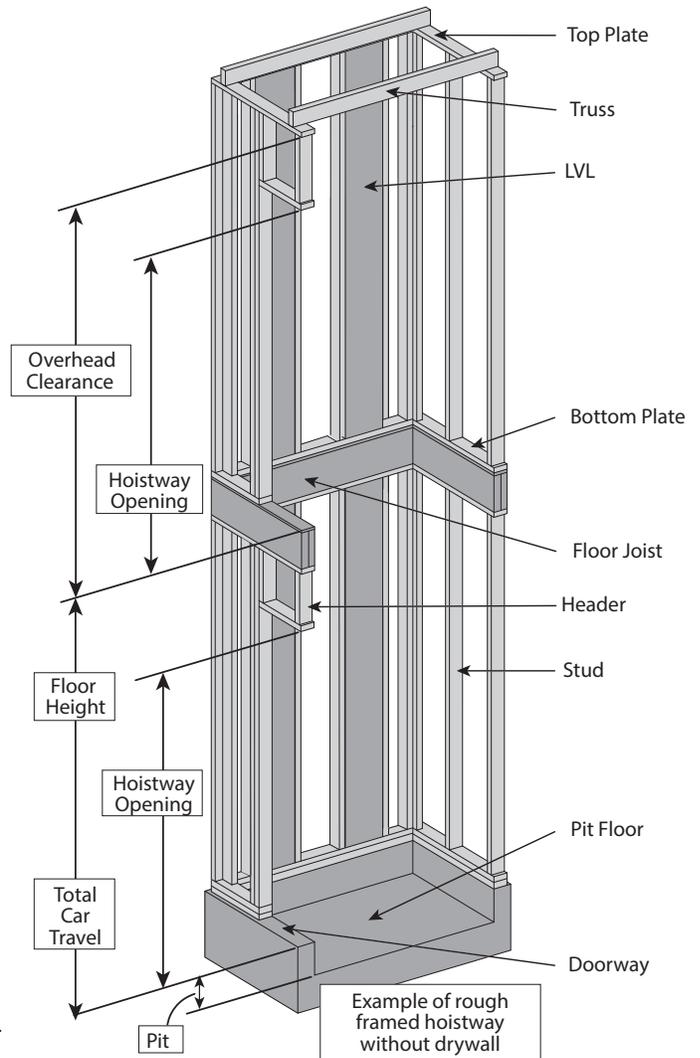
- A lockable service disconnect must be placed within sight of the controller and must be easily accessible in case of an emergency.
- Machine room must contain a convenience outlet and light with switch.
- The temperatures must be maintained between 60° - 110°F and must not be exposed to the elements (with a relative humidity not to exceed 95%).

Example Hoistway Construction - Hydraulic Elevator

Typical layouts shown here may vary from your actual hoistway.

The purpose of these layouts is for a general understanding.

Please refer to the Waupaca Elevator drawings and specifications that will be provided by your local dealer.



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 Elevation View with T-Rail- Series 114

Example of Hydraulic Elevator

Required Overhead Heights

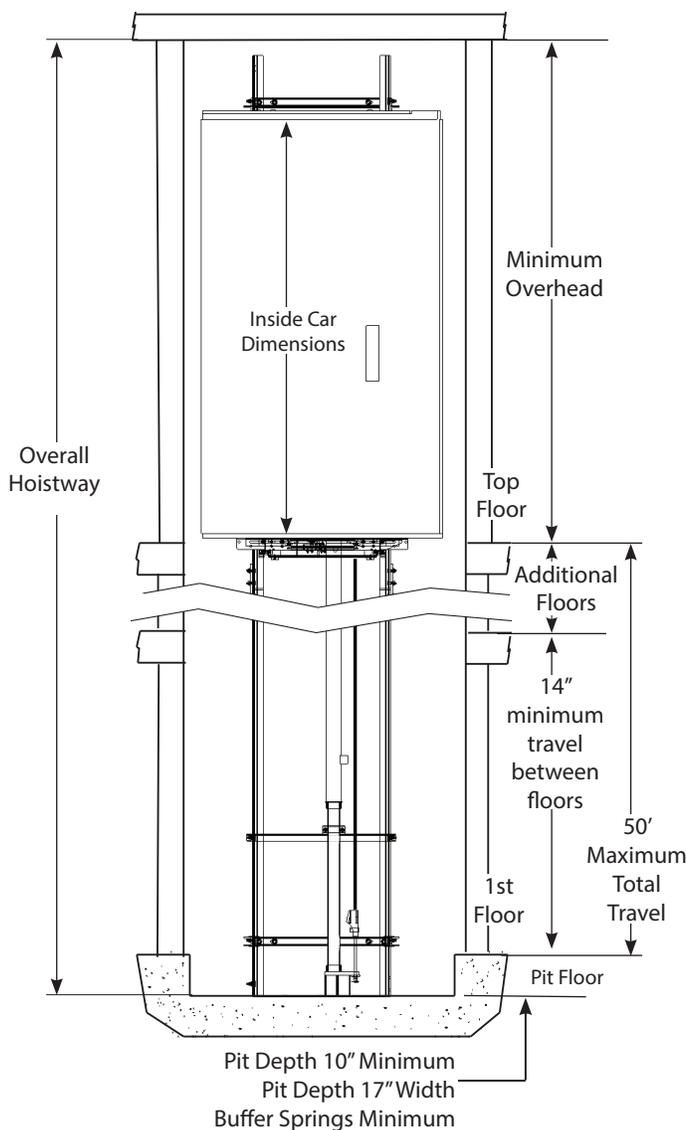
Inside Cab Dimension	6' 10"	7' 0"	7' 4"	8' 0"
Minimum Hoistway Overhead Height	7' 10"	8' 0"	8' 4"	9' 0"

Cab Height - 6' min

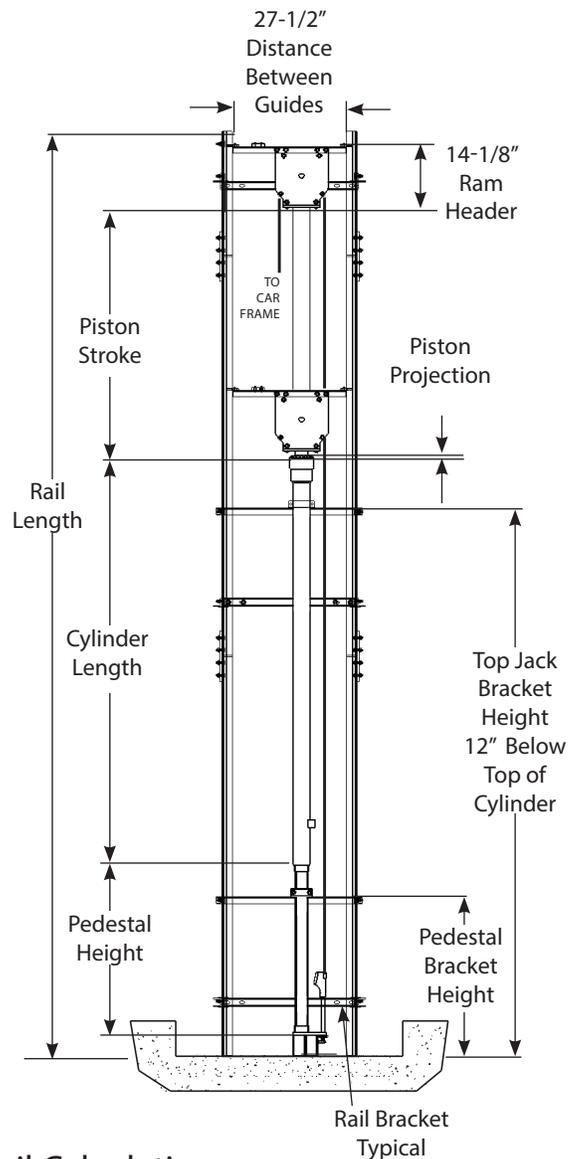
*Custom sized cabs will alter these dimensions. Waupaca Elevator will provide you with the appropriate dimensions. Please contact your local dealer to acquire alternate layouts.

This is a graphical representation of a hydraulic elevator on T-rail which offers up to six stops and a travel distance up to 50 feet.

Elevation



Rail Layout and Jack Calculations



Rail Calculations
 Rail Length = Hoistway - 2"

Hoistway Elevation View with J-Rail - Series 116

Example of Hydraulic Elevator

Required Overhead Heights

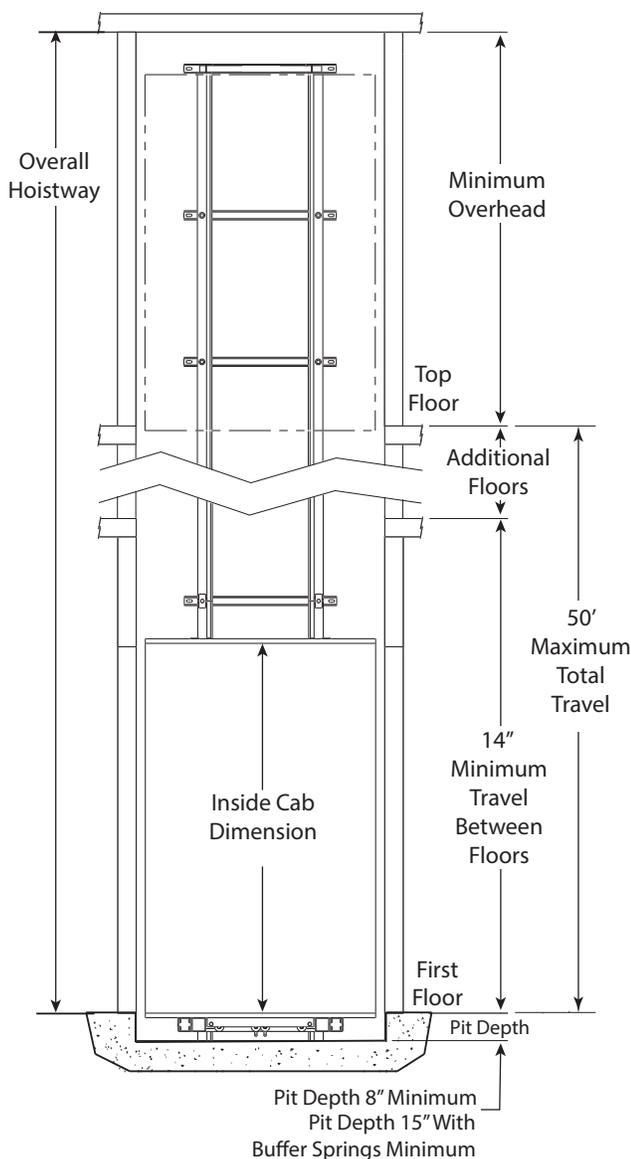
Inside Cab Dimension	6' 10"	7' 0"	7' 4"	8' 0"
Minimum Overhead	7' 10"	8' 0"	8' 4"	9' 0"

Cab Height - 6' 10" min.

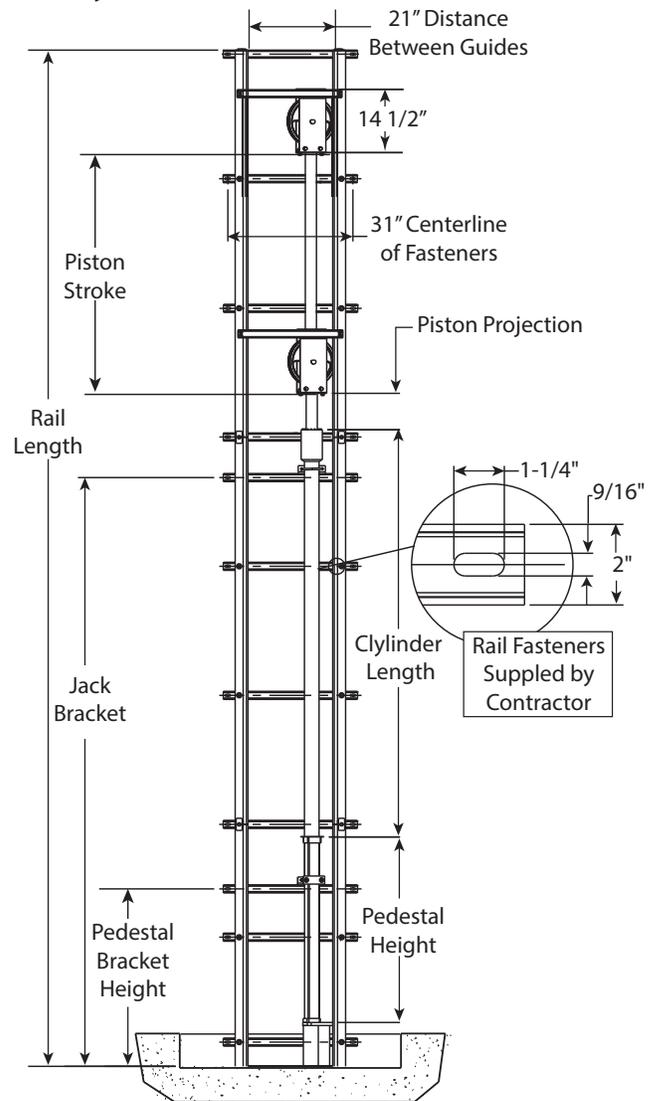
*Custom sized cabs will alter these dimensions. Waupaca Elevator will provide you with the appropriate dimensions. Please contact your local dealer to acquire alternate layouts.

This is a graphical representation of a hydraulic elevator on J-rail which offers up to six stops and a travel distance up to 50 feet.

Elevation



Rail Layout and Jack Calculations



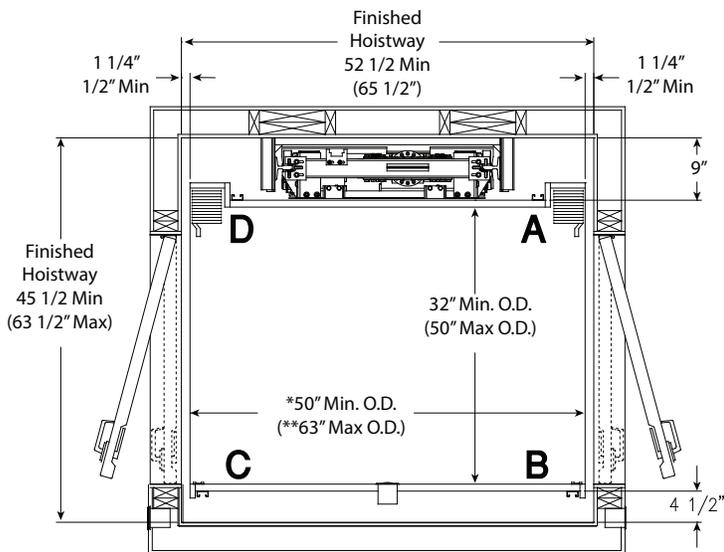
Rail Calculations

$$\text{Rail Length} = \text{Pit Depth} + \text{Travel} + \text{Car I.D. Height} + 10''$$

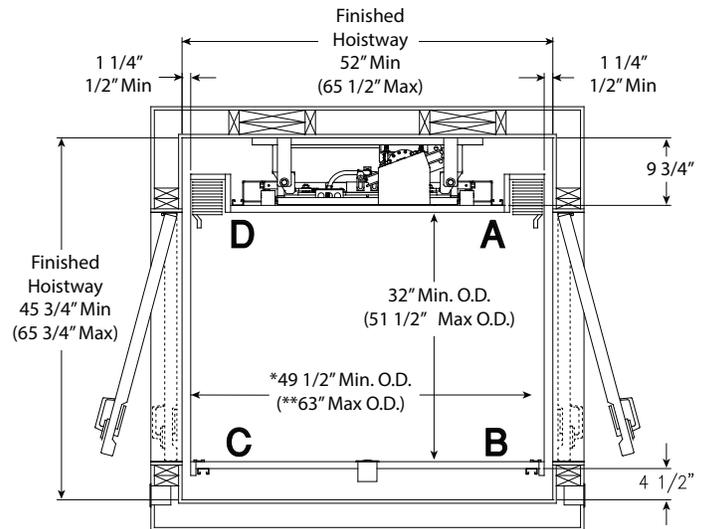
Example Hoistway Layouts - Hydraulic Elevator

Minimum and Maximum Dimensions

T-RAIL (Series 114)



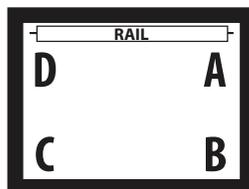
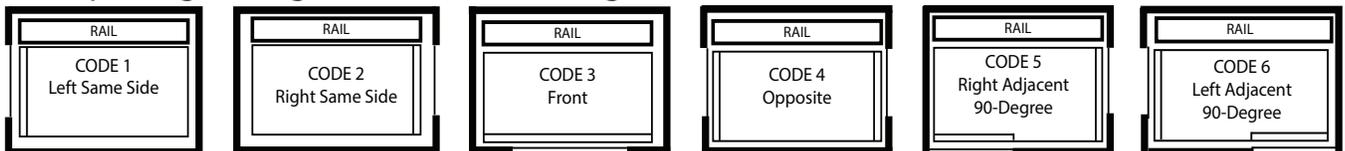
J-RAIL (Series 116)



Note:

1. Minimum DA dimensions reflect rail centered in hoistway.
2. T-Rail (Series 114) minimum DA dimension for car without a gate recess is 37" O.D. (outside dimension)
J-Rail (Series 116) minimum DA dimension for car without a gate recess is 36" O.D. (outside dimension)
3. Car I.D. (inside dimensions) can not exceed 12 sq. ft. for 750 lb.
Car I.D. (inside dimensions) can not exceed 15 sq. ft. for 1,000 lb.

Car Opening Configurations and Coding

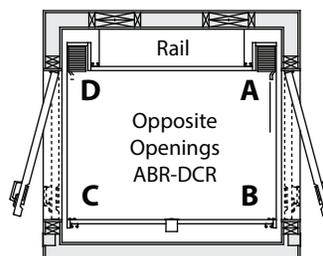


1. The DA is the side on which the rail is attached.
2. The first letter refers to the attachment location of the gate.
3. The second letter refers to the location of the strike plate.
4. If present, the third letter "R" denotes a recessed gate.

Example

First Gate - ABR

- A - gate attachment
- B - strike plate
- R - recessed gate



Second Gate - DCR

- D - gate attachment
- C - strike plate
- R - recessed gate

Example Hoistway Layouts - Hydraulic Elevator

Construction Notes:

- Use specified rail backing from architect to frame into wall.
- The hoistway illustrations below show finished dimensions. Finished hoistway dimensions include drywall, plaster and paint.
- 3/4" is recommended between the inside closed hoistway door face and the edge of the sill. (see "f" below)
- Determine height of hall station per local code and ADA requirements.
- Rough frame door in place with an extra inch of space on each side of the door to allow for door installation.
- Determine rail type and reference appropriate columns and dimensions based on layout configurations listed charts below.

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.

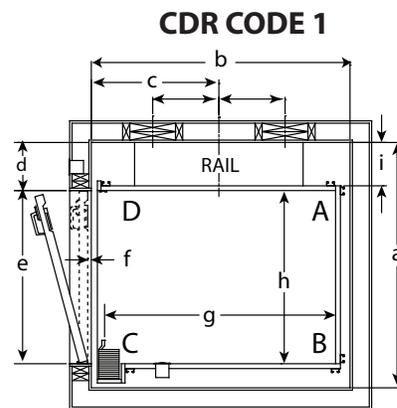
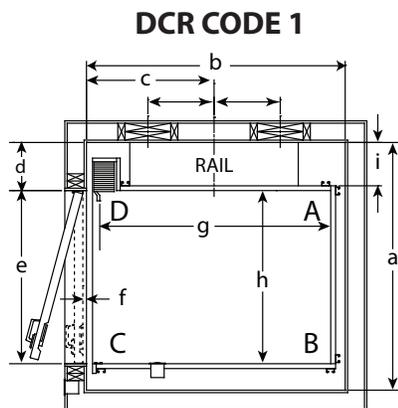
These symbols are listed beside the car size Waupaca Elevator believes to be best suited for use by wheelchair passengers and their accompanying attendant.



Recommended size for wheelchair passenger



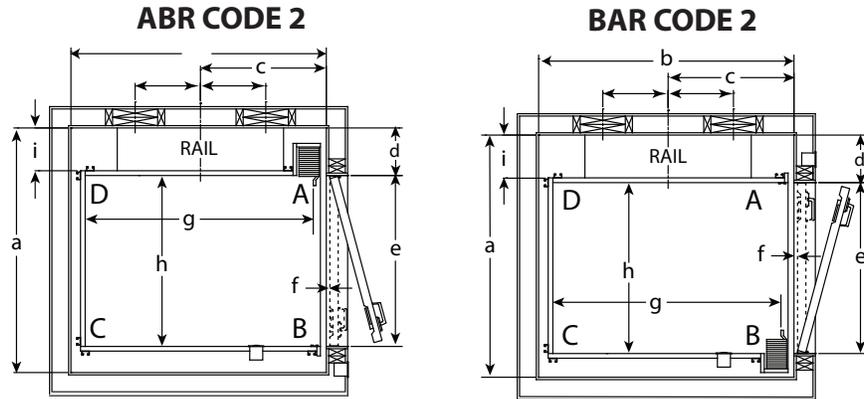
Recommended size for both wheelchair and attendant passengers



Hoistway Layout	Sq Ft	Car Size	a		b	c	d		e	f	g	h	i	
			T-Rail (114)	J-Rail (116)			T-Rail (114)	J-Rail (116)					T-Rail (114)	J-Rail (116)
DCR Code 1	12 sq ft	48" X 36"	51.5"	52.25"	53.75"	26.5"	10"	10.75"	36"	0.75"	48"	36"	9"	9.75"
	15 sq ft	54" X 40"	55.5"	56.25"	59.75"	29.5"	14"	14.75"	36"	0.75"	54"	40"	9"	9.75"
	15 sq ft	60" X 36"	51.5"	52.25"	65.75"	32.5"	10"	10.75"	36"	0.75"	60"	36"	9"	9.75"
CDR Code 1	12 sq ft	48" X 36"	52.5"	53.25"	53.75"	26.5"	10"	10.75"	36"	0.75"	48"	36"	9"	9.75"
	15 sq ft	54" X 40"	55"	55.75"	59.75"	29.5"	10"	10.75"	36"	0.75"	54"	40"	9"	9.75"
	15 sq ft	60" X 36"	52.5"	53.25"	65.75"	32.5"	10"	10.75"	36"	0.75"	60"	36"	9"	9.75"

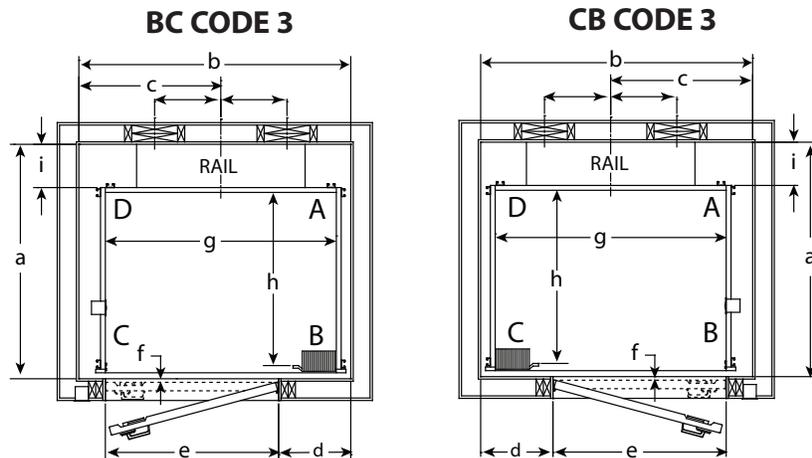
*All dimensions are finished hoistway dimensions

Example Hoistway Layouts - Hydraulic Elevator



Hoistway Layout	Sq Ft	Car Size	a		b	c	d		e	f	g	h	i	
			T-Rail (114)	J-Rail (116)			T-Rail (114)	J-Rail (116)					T-Rail (114)	J-Rail (116)
ABR Code 2	12 sq ft	48" X 36"	51.5"	52.25"	53.75"	26.5"	10"	10.75"	36"	0.75"	48"	36"	9"	9.75"
	15 sq ft	54" X 40"	55.5"	56.25"	59.75"	29.5"	14"	14.75"	36"	0.75"	54"	40"	9"	9.75"
	15 sq ft	60" X 36"	51.5"	52.25"	65.75"	32.5"	10"	10.75"	36"	0.75"	60"	36"	9"	9.75"
BAR Code 2	12 sq ft	48" X 36"	52.5"	53.25"	53.75"	26.5"	10"	10.75"	36"	0.75"	48"	36"	9"	9.75"
	15 sq ft	54" X 40"	55"	55.75"	59.75"	29.5"	10"	10.75"	36"	0.75"	54"	40"	9"	9.75"
	15 sq ft	60" X 36"	52.5"	53.25"	65.75"	32.5"	10"	10.75"	36"	0.75"	60"	36"	9"	9.75"

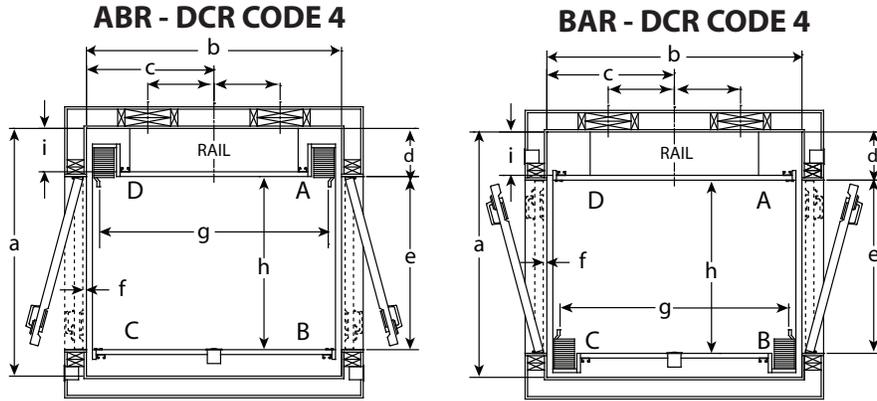
*All dimensions are finished hoistway dimensions



Hoistway Layout	Sq Ft	Car Size	a		b	c	d		e	f	g	h	i	
			T-Rail (114)	J-Rail (116)			T-Rail (114)	J-Rail (116)					T-Rail (114)	J-Rail (116)
BC Code 3	12 sq ft	48" X 36"	48.75"	49.5"	56.5"	29.5"	15"	15"	36"	0.75"	48"	36"	9"	9.75"
	15 sq ft	54" X 40"	52.75"	53.5"	62.5"	32.5"	21"	21"	36"	0.75"	54"	40"	9"	9.75"
	15 sq ft	60" X 36"	48.75"	49.5"	68.5"	35.5"	27"	27"	36"	0.75"	60"	36"	9"	9.75"
CB Code 3	12 sq ft	48" X 36"	48.75"	49.5"	56.5"	29.5"	15"	15"	36"	0.75"	48"	36"	9"	9.75"
	15 sq ft	54" X 40"	52.75"	53.5"	62.5"	32.5"	21"	21"	36"	0.75"	54"	40"	9"	9.75"
	15 sq ft	60" X 36"	48.75"	49.5"	68.5"	35.5"	27"	27"	36"	0.75"	60"	36"	9"	9.75"

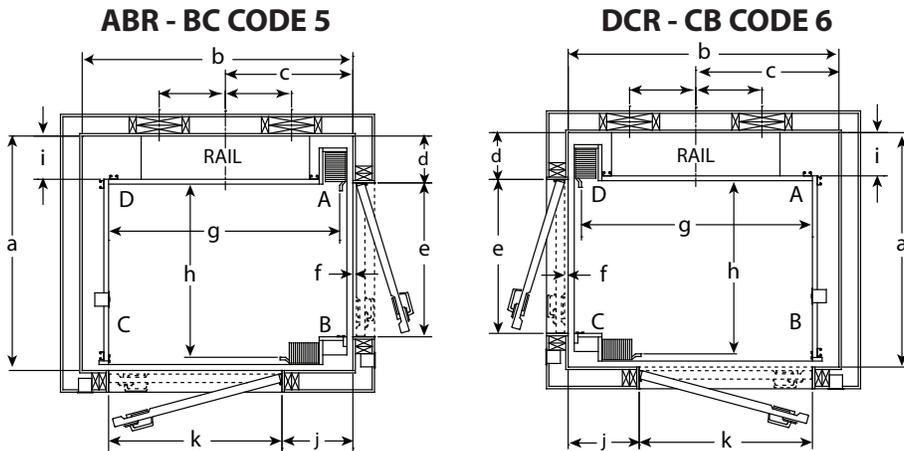
*All dimensions are finished hoistway dimensions

Example Hoistway Layouts - Hydraulic Elevator



Hoistway Layout	Sq Ft	Car Size	a		b	c	d		e	f	g	h	i	
			T-Rail (114)	J-Rail (116)			T-Rail (114)	J-Rail (116)					T-Rail (114)	J-Rail (116)
ABR-DCR Code 4	12 sq ft	48" X 36"	51.5"	52.25"	53.5"	26.75"	10"	10.75"	36"	0.75"	48"	36"	9"	9.75"
	15 sq ft	54" X 40"	55.5"	56.25"	59.5"	29.75"	14"	14.75"	36"	0.75"	54"	40"	9"	9.75"
	15 sq ft	60" X 36"	51.5"	52.25"	65.5"	32.75"	10"	10.75"	36"	0.75"	60"	36"	9"	9.75"
BAR-DCR Code 4	12 sq ft	48" X 36"	52.5"	53.25"	53.5"	26.75"	10"	10.75"	36"	0.75"	48"	36"	9"	9.75"
	15 sq ft	54" X 40"	55"	55.75"	59.5"	29.75"	10"	10.75"	36"	0.75"	54"	40"	9"	9.75"
	15 sq ft	60" X 36"	52.5"	53.25"	65.5"	32.75"	10"	10.75"	36"	0.75"	60"	36"	9"	9.75"

*All dimensions are finished hoistway dimensions



Hoistway Layout	Sq Ft	Car Size	a		b	c	d		e	f	g	h	i		j	k
			T-Rail (114)	J-Rail (116)			T-Rail (114)	J-Rail (116)					T-Rail (114)	J-Rail (116)		
ABR-BC Code 5	12 sq ft	48" X 36"	48.75"	49.5"	55.75"	26.5"	9.75"	10.5"	32"	0.75"	48"	36"	9"	9.75"	14.75"	36"
	15 sq ft	54" X 40"	52.75"	53.5"	61.75"	29.5"	9.75"	10.5"	36"	0.75"	54"	40"	9"	9.75"	20.75"	36"
	15 sq ft	60" X 36"	48.75"	49.5"	67.75"	32.5"	9.75"	10.5"	32"	0.75"	60"	36"	9"	9.75"	26.75"	36"
DCR-CB Code 6	12 sq ft	48" X 36"	48.75"	49.5"	55.75"	26.5"	9.75"	10.5"	32"	0.75"	48"	36"	9"	9.75"	14.75"	36"
	15 sq ft	54" X 40"	52.75"	53.5"	61.75"	29.5"	9.75"	10.5"	36"	0.75"	54"	40"	9"	9.75"	20.75"	36"
	15 sq ft	60" X 36"	48.75"	49.5"	67.75"	32.5"	9.75"	10.5"	32"	0.75"	60"	36"	9"	9.75"	26.75"	36"

*All dimensions are finished hoistway dimensions

Notes

1726 North Ballard Road, Suite 1 • Appleton, WI 54911
Phone 920-991-9082 • www.waupacaelevator.com

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