



# **Residential & Commercial Dumbwaiters**

**Series F007 - Cable-Waiter (Residential)  
Built on Angle Iron**

**Series F011 - Paca-Waiter (Residential)  
Series F311 - Paca-Waiter (Commercial)  
Series F511 - Paca-Waiter (Commercial)  
Built on C-Channel**

1726 North Ballard Road, Suite 1 • Appleton, WI 54911  
Direct Phone: 920-991-9082  
Toll Free: 800-238-8739  
Email: [info@foxvalleyelevator.com](mailto:info@foxvalleyelevator.com)



# Members Of:

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Fox Valley Elevator, LLC is a proud member of The American Society of Mechanical Engineers, The National Association Elevator 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

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This Planning Guide is to be used as a reference to determine parameters of installation and steps taken to achieve a proper dumbwaiter 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.

Dumbwaiter 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. Fox Valley Elevator, LLC products are designed to meet the requirements of ASME - A17.1 National Elevator Codes for dumbwaiters. Manufacturer assumes no liability for equipment not installed in compliance with these codes.

Fox Valley Elevator, LLC reserves the right to modify the design, technical specifications and dimensions of the products shown in this document.

## Planning Steps

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Locate a local authorized dealer and custom design your dumbwaiter together. Please follow the steps below to finish creating your dumbwaiter package:

1. Determine the location and how dumbwaiter will be used. Select car type, gate type, capacity of the dumbwaiter and choose from the available option that are referenced in the Fox Valley Elevator Brochure.
2. Layout machine room and location.
3. Plan for all electrical requirements
4. Address national, state and local code requirements.
5. 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 dumbwaiter.
6. Coordinate with your authorized dealer to install your custom dumbwaiter.

Fox Valley Elevator, LLC will be referred as Fox Valley Elevator or FVE through out the remainder of this document.

# Residential Dumbwaiter Reference Chart

Residential Units			
Mechanical Features		Cable-Waiter	Paca-Waiter
Weight Capacity	Up To...	100 lbs.	200 lbs.
Standard Car Sizes		20"x20"x30"	26"x26x36"
Travel	Up To...	50'	34'
Stops	Up To...	6 Stops	
Nominal Speed	Feet Per Minute	30 FPM	50 FPM
Overhead	Minimum space above top of car. Additional overhead required for overhead machine and some types of car gates.	1'-6"	2'-0"
Electrical Requirements	Phase	Single	
	Voltage	110 V	230V
	Amperage	15 A	10 A
Drive System		Winding Drum	
Motor	Horsepower	3/4 HP	1.5 HP
Controller Size	Height x Width x Depth	18" x 18" x 6"	
Sheave	Diameter	4"	6-3/8"
Drum	Diameter	5-1/4"	5-3/4"
Cable Type		1/8" x 7 x 19 GAC	3/16" x 7 x 19 GAC
Rail Type	Steel	1-1/2" x 1-1/2" x 3 /16" Angle	2" x 1" x 3/16" C Channel
Machine Placement		Above or Below	

# Commercial Dumbwaiter Reference Chart

Commercial Units			
Mechanical Features		Paca-Waiter	Paca-Waiter
Weight Capacity		300 lbs.	500 lbs.
Standard Car Sizes		30"x30"x40"	36"x36"x48"
Travel	Up To...	63'	
Stops	Up To...	6 Stops	
Nominal Speed	Feet Per Minute	60 FPM	
Overhead	Minimum space above top of car. Additional overhead required for overhead machine and some types of car gates.	2'-3"	
Electrical Requirements (Buck Boost Required on Paca-Waiter Units for voltage other than 230V)	Phase	Single	
	Voltage	230 V	
	Amperage	25 A	
Drive System		Winding Drum	
Motor	Horsepower	2 HP	3 HP
Controller Size	Height x Width x Depth	24" x 24" x 8"	
Sheave	Diameter	7-3/4"	
Drum	Diameter	7-3/4"	
Cable Type		1/4" x 7 x 19 GAC	
Rail Type	Steel	2" x 1" x 3/16" C Channel	
Machine Placement		Above or Below	

# Dumbwaiter Reference Chart

Car
<b>Material:</b>
Powder Coated Steel
Stainless Steel #4 Finish
<b>Car Options:</b>
Shelves
Light

Gates (required)
<b>Bi-parting or Slide-up:</b>
Powder Coated Steel
Stainless Steel #4 Finish
<b>Tambour (Roll-up):</b> PVC (CW 100 & PW 200 residential dumbwaiters only)

UL "B" Label Hoistway Door(s) for Residential/Commercial Units		
Door Types:	Material:	Optional:
Bi-Parting	Primed Steel	Frame mounted push buttons, Indicator Light option, Stainless Sill(s), Counter Loading, Floor Loading, Fusible Link, Emergency Release, Door Switch
Slide-Up Doors	Stainless Steel #4 Finish	
Swing Doors	Powdered Coated	

Residential Units		
Custom Wood Doors:	Trims:	Options
Various Different Styles	Stainless Steel #4	Frame mounted push buttons indicator light options
	Wood	
	Trim less	

Interlock(s) (required)
HG-2 Dual Contact Interlock (Used on Commercial Doors)
GAL and Cam(s)
EMI III (Residential Only)
<b>* Note :</b> Either GAL or HG-2 Interlock(s) Are Required On Commercial Units

Additional Options:
Door Open Buzzer (CW 100 & PW 200)
Gate & Door Alarm (CW 100 & PW 200)
Car Here
In Use
Lantern and Chime
Position Indicator

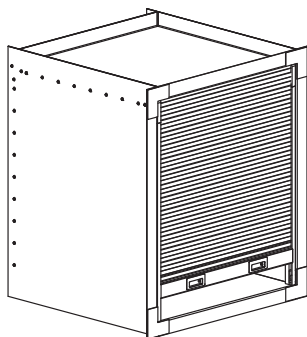
# Car Gate Reference Chart

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The dumbwaiter car gate, is attached to the front of the car and travels with it up and down the hoistway. The gate prevents items from leaving or entering the car.

## Steel Car with PVC or Metallic Rolltop Gate

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### Cable-Waiter

Available in 100 lb. cars

Available Finishes & Material:

PVC  
or  
Metallic Steel w/ PVC Coating

### Paca-Waiter

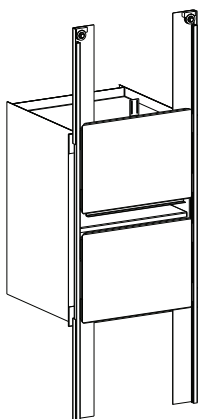
Available in 200 lb. cars

Available Finishes & Material:

PVC  
or  
Metallic Steel w/ PVC Coating

## Steel Car with Bi-Parting Gate

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### Cable-Waiter

Available in 100 lb. cars

Available Finishes & Material:

Powder Coated Steel  
or  
Stainless Steel

### Paca-Waiter

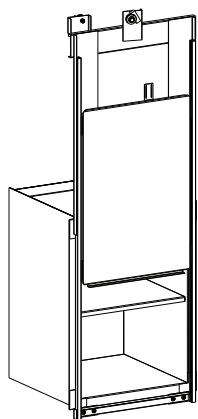
Available in 200 lb., 300 lb. &  
500 lb. cars

Available Finishes & Material:

Powder Coated Steel  
or  
Stainless Steel

## Steel Car with Slide-Up Gate

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### Cable-Waiter

This Option Is Not Available

### Paca-Waiter

Available in 200lbs, 300 lb. &  
500 lb. cars

Available Finishes & Material:

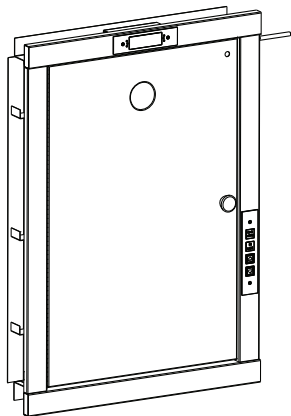
Powder Coated Steel  
or  
Stainless Steel



# Commercial Hoistway Reference Chart

The door prevents items from accidentally entering the hoistway when the dumbwaiter car is elsewhere. An interlock located at each opening prevents the door from being opened if the dumbwaiter car is not waiting at that landing. We offer the following doors made to your specification. Every opening must have a door.

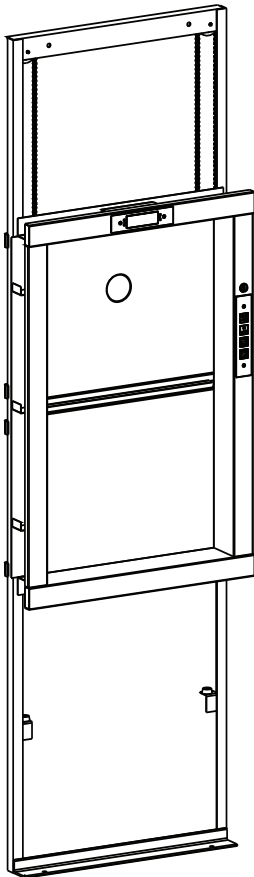
**CONSTRUCTION/INSTALLATION NOTE!**  
**Hoistway door walls must not be erected until doors are set in place.**



Maximum Height of 36"

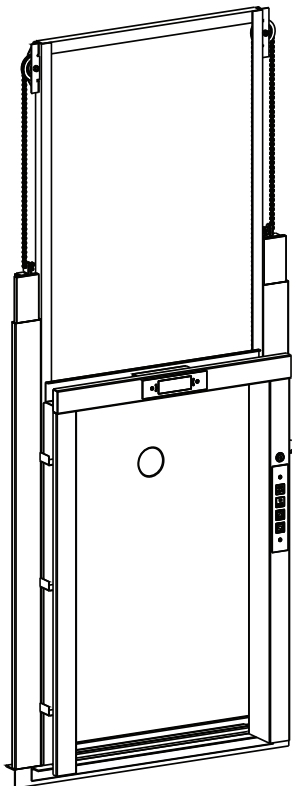
**Swing Door**

**Paca-Waiter**  
 300 lbs. & 500 lbs.  
 Primed Steel or Stainless Steel



**Bi-Parting Door**

**Paca-Waiter**  
 300 lbs. & 500 lbs.  
 Primed Steel or Stainless Steel



**Slide-Up Door**

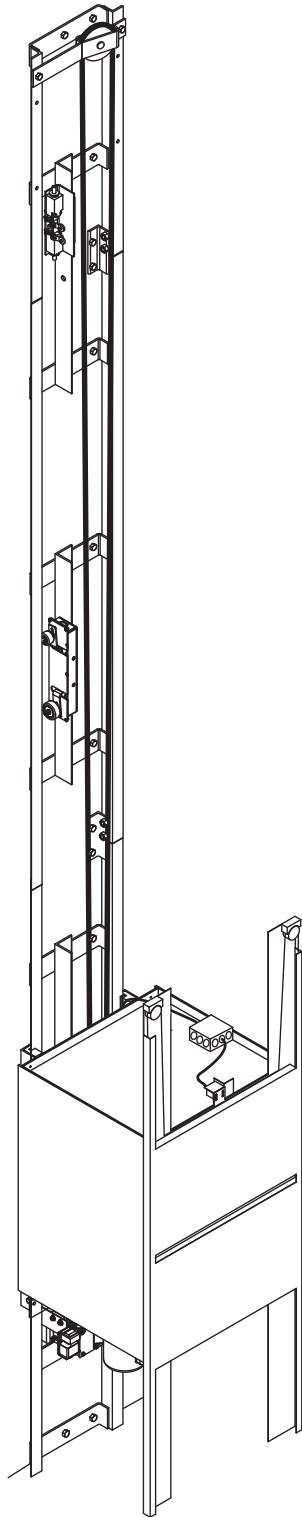
**Paca-Waiter**  
 300 lbs. & 500 lbs.  
 Primed Steel or Stainless Steel

# Design Features & Mechanical Illustrations

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## Residential Dumbwaiter

(Series F007)



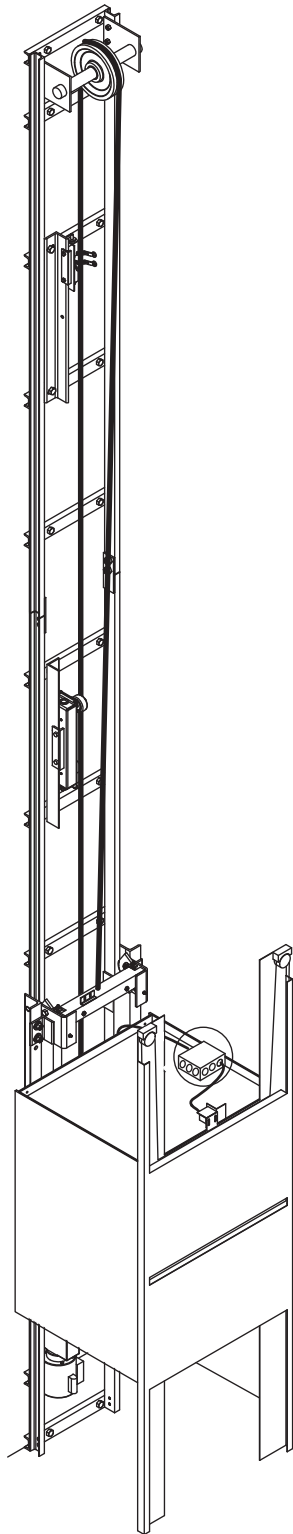
- Multiple Machine Room Location Options
- Modular Design Built on Angle Iron Rail System
- Utilizes Proven Winding Drum Technology
- System Free of Hydraulic Oil
- Switches Locates Floors with Magnetic Sensor
- Emergency Hand Wheel is Standard
- Broken Rope Safety is Standard

# Design Features & Mechanical Illustrations

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## Residential Dumbwaiter

(Series F011)

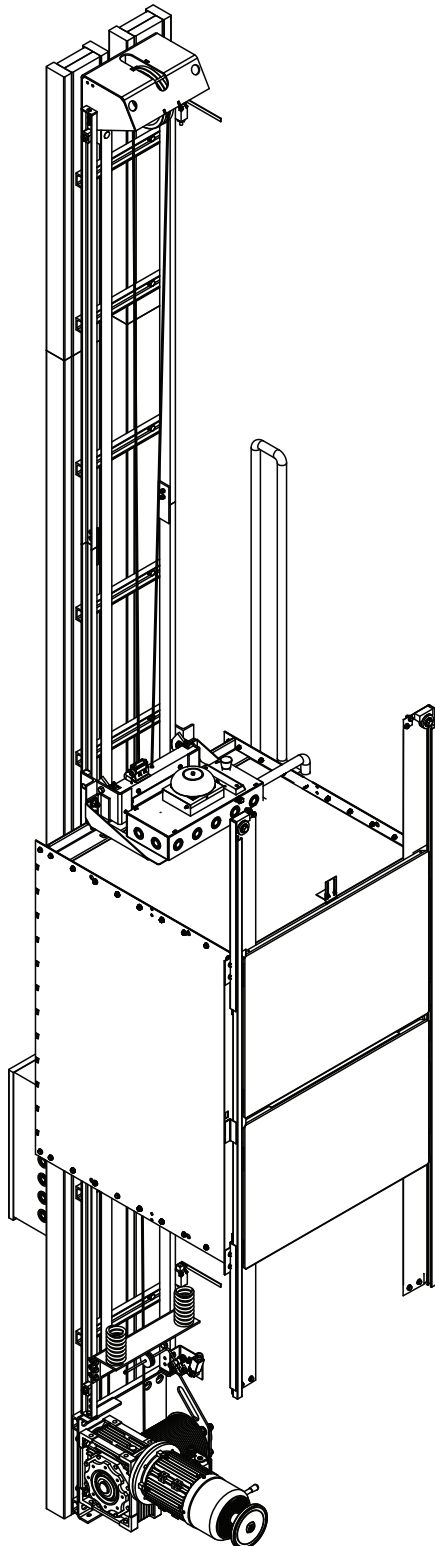


- Multiple Machine Room Location Options
- Modular Design Built on C-Channel Rail System
- Utilizes Proven Winding Drum Technology
- System Free of Hydraulic Oil
- Switches Locates Floors with Magnetic Sensor
- Emergency Hand Wheel is Standard

# Design Features & Mechanical Illustrations

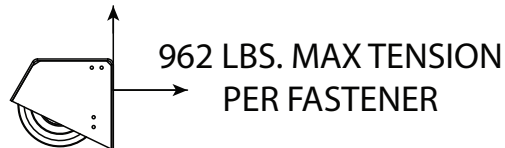
## Commercial Dumbwaiter

(Series: F311& F511)



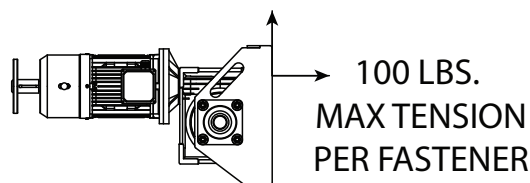
- Multiple Machine Room Location Options
- Modular Design Built on C-Channel Rail System
- Utilizes Proven Winding Drum Technology
- System Free of Hydraulic Oil
- Sling Movement Translates Through Gliding Blocks
- PLC Control System with Variable Frequency Drive
- Tape Reader Locates Floors with Magnetic Sensor
- Emergency Hand Wheel is Standard
- Broken Rope Safety is Standard
- Buffer Spring are Optional

591 LBS. MAX SHEAR  
PER FASTENER



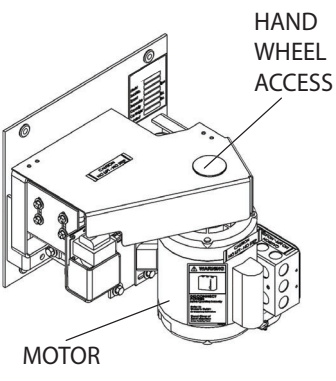
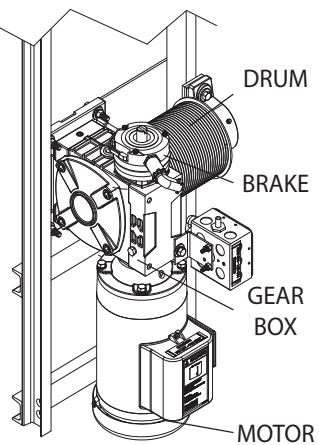
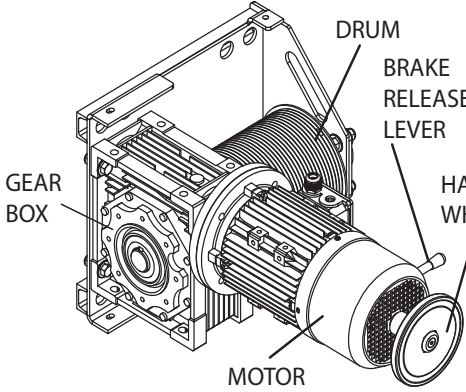
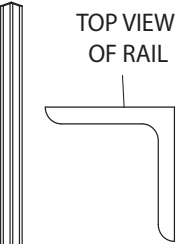
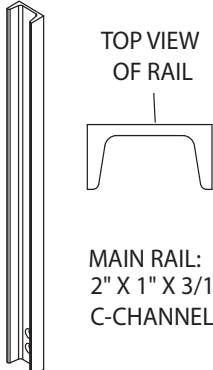
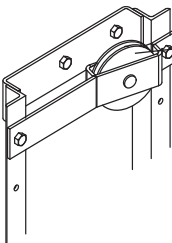
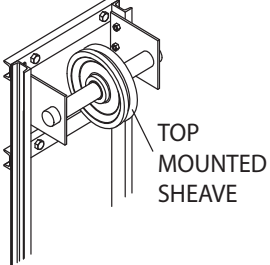
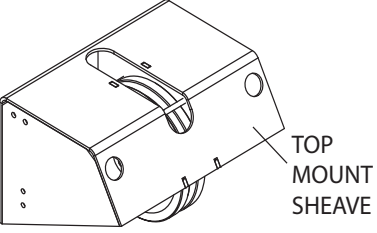

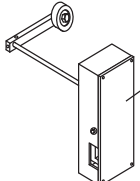
962 LBS. MAX TENSION  
PER FASTENER

295 LBS.  
MAX SHEAR  
PER FASTENER



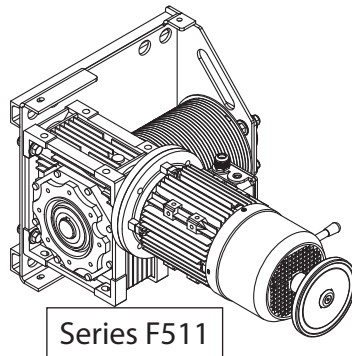
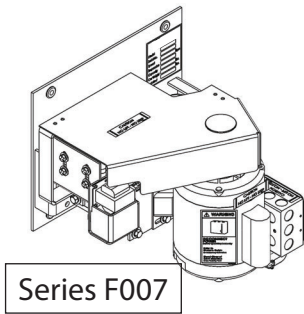
100 LBS.  
MAX TENSION  
PER FASTENER

# Typical Dumbwaiter Equipment

Cable-Waiter	Paca-Waiter	
RESIDENTIAL UNIT	RESIDENTIAL UNIT	COMMERCIAL UNIT
 <p>HAND WHEEL ACCESS</p> <p>MOTOR</p>	 <p>DRUM</p> <p>BRAKE</p> <p>GEAR BOX</p> <p>MOTOR</p>	 <p>DRUM</p> <p>BRAKE RELEASE LEVER</p> <p>HAND WHEEL</p> <p>GEAR BOX</p> <p>MOTOR</p>
 <p>TOP VIEW OF RAIL</p> <p>MAIN RAIL: 1-1/2" X 1-1/2" X 3/16" ANGLE STEEL</p>	 <p>TOP VIEW OF RAIL</p> <p>MAIN RAIL: 2" X 1" X 3/16" C-CHANNEL STEEL</p>	
 <p>TOP MOUNT SHEAVE</p>	 <p>TOP MOUNTED SHEAVE</p>	 <p>TOP MOUNT SHEAVE</p>
 <p>EMI III INTERLOCK (Residential Only)</p>	<p>HOISTWAY DOOR INTERLOCKS: REQUIRED AT EACH OPENING TO PREVENT HOISTWAY ACCESS WHILE DUMBWAITER IS OPERATING OR AT ANOTHER LANDING.</p>	
		 <p>GAL TYPE "SN &amp; N" INTERLOCK</p>

# Typical Dumbwaiter Equipment

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## Powerhead

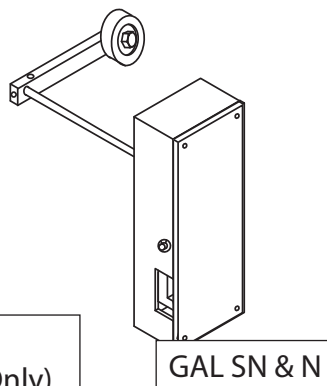
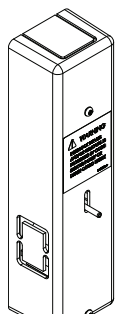
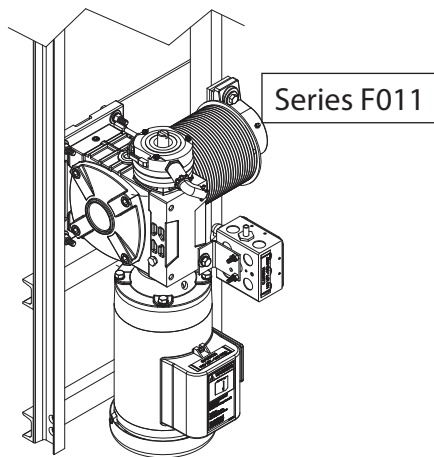
The powerhead is a motor and gearbox that efficiently moves the elevator car by a positive means of wrapping a steel wire rope around a grooved drum.

## Gearbox

Single reduction gearbox combination for reduced maintenance.

## Motor

230V 3-phase brake motor for efficiency, higher torque, speed control, and landing accuracy.



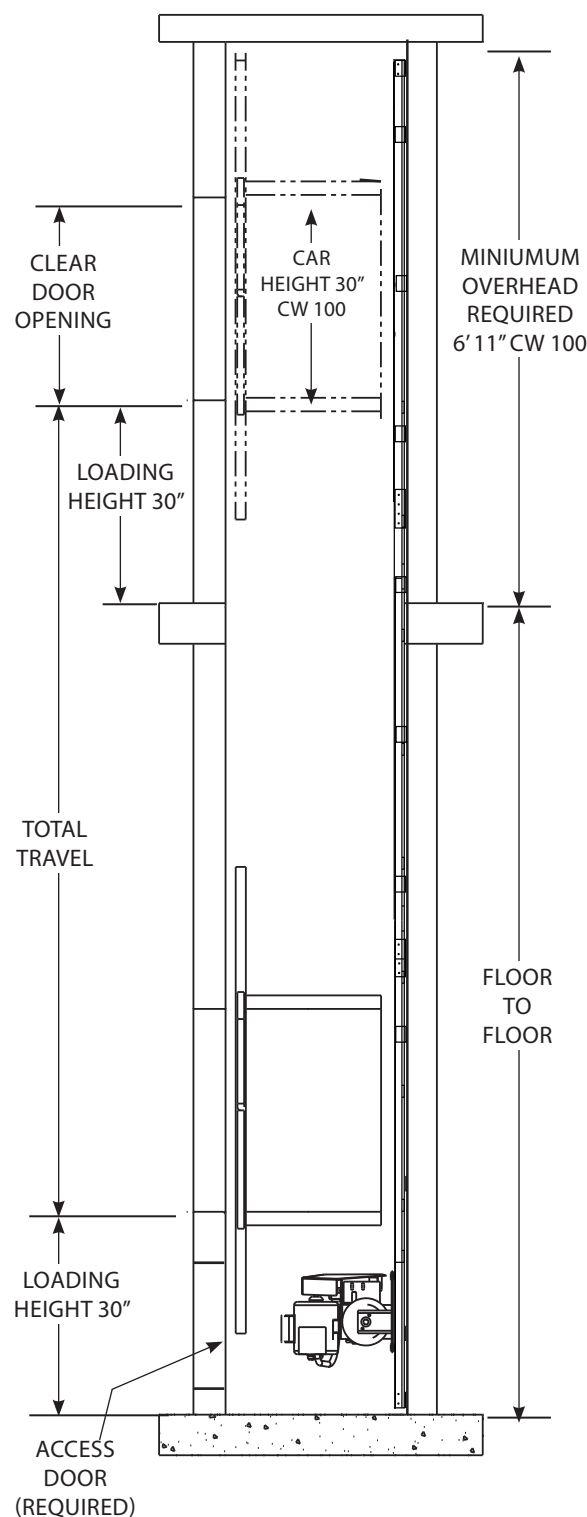
## Hoistway door interlocks EMI or GAL Type N & SN

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

# Elevation Layout - Residential Cable-Waiter

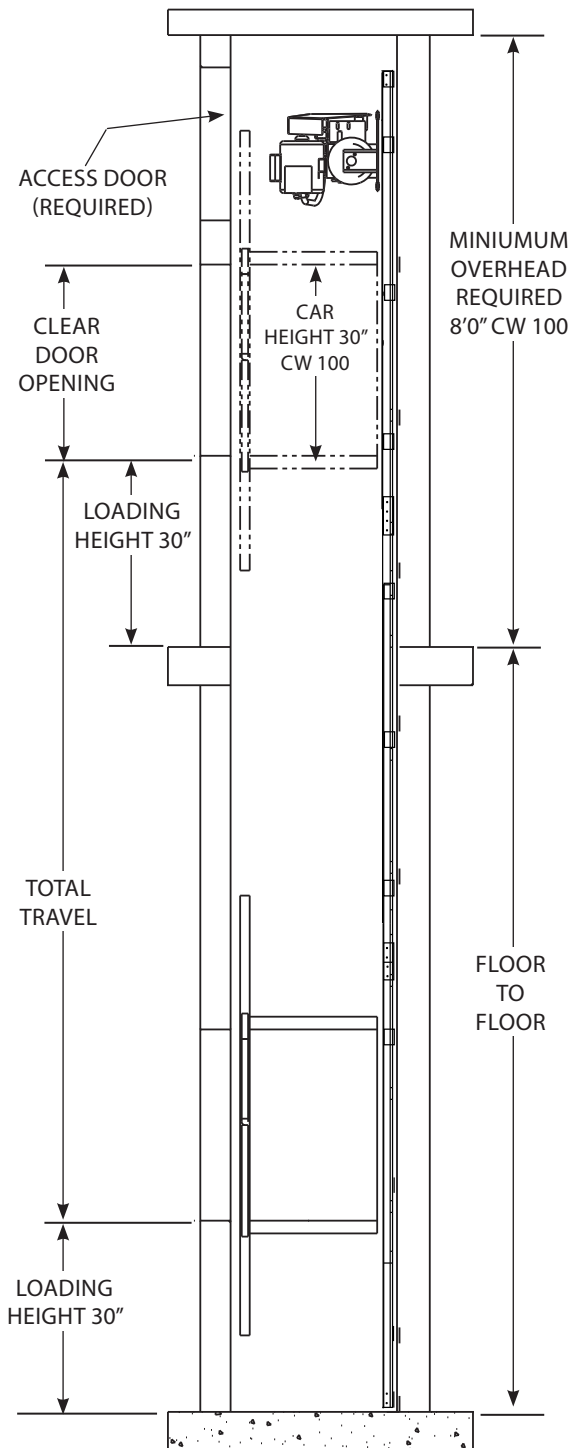
## Below Car

For additional information and dimensions contact your local dealer.

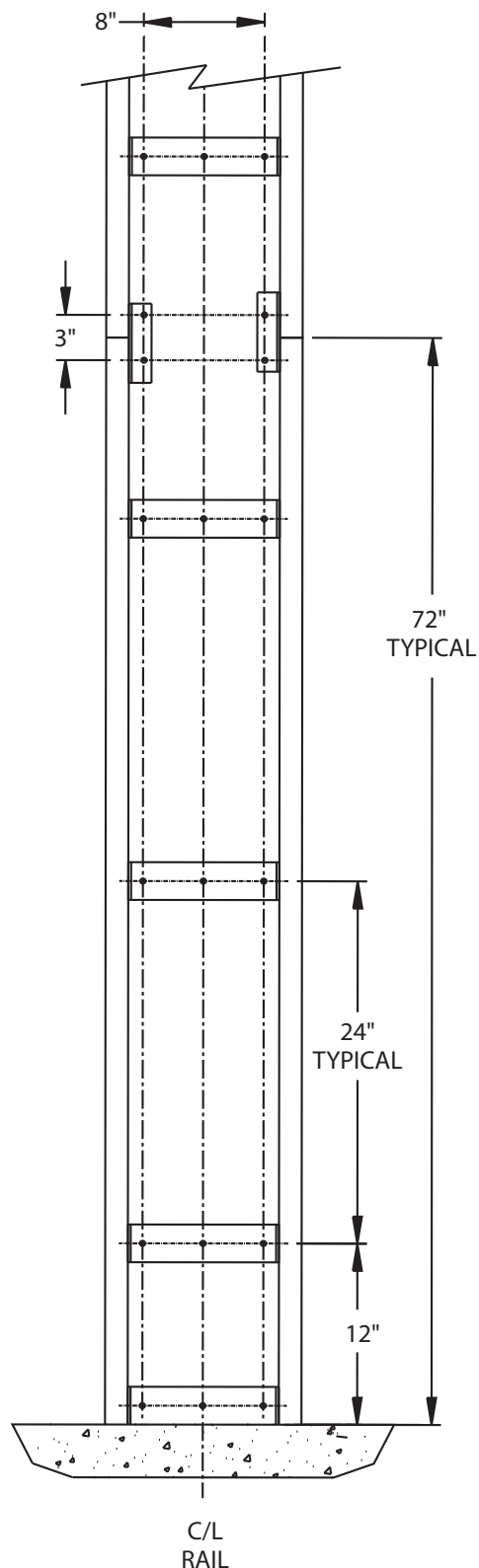


## Above Car

For additional information and dimensions contact your local dealer.

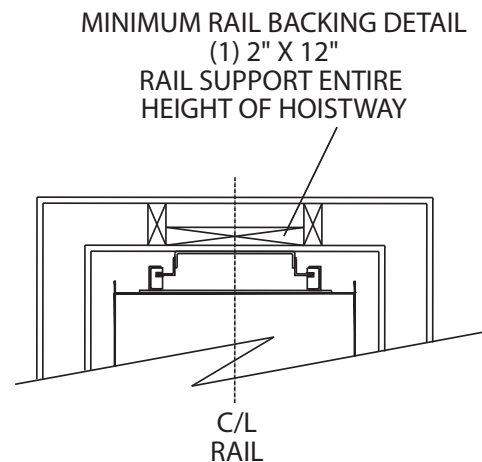
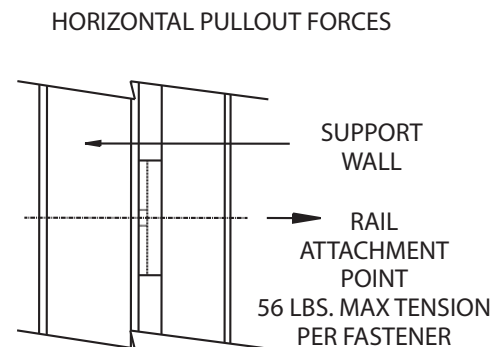


# Hoistway Rail Layout-Residential Cable-Waiter



The typical layouts shown here may vary from your actual hoistway. The purpose of these layouts are for a general understanding. Please refer to Fox Valley Elevator, drawings and specifications provided by your authorized local dealer.

These drawings depict sample layouts 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.



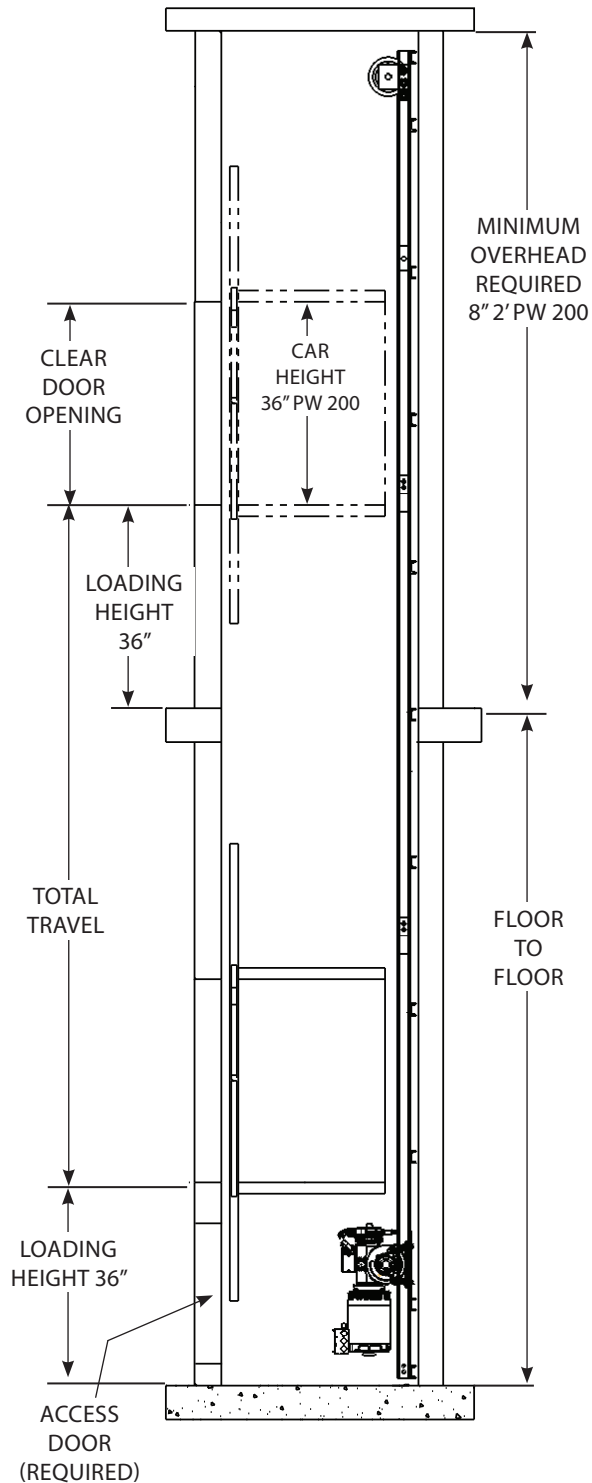
For additional information and dimensions contact your local dealer.



# Elevation Layout - Residential Paca-Waiter

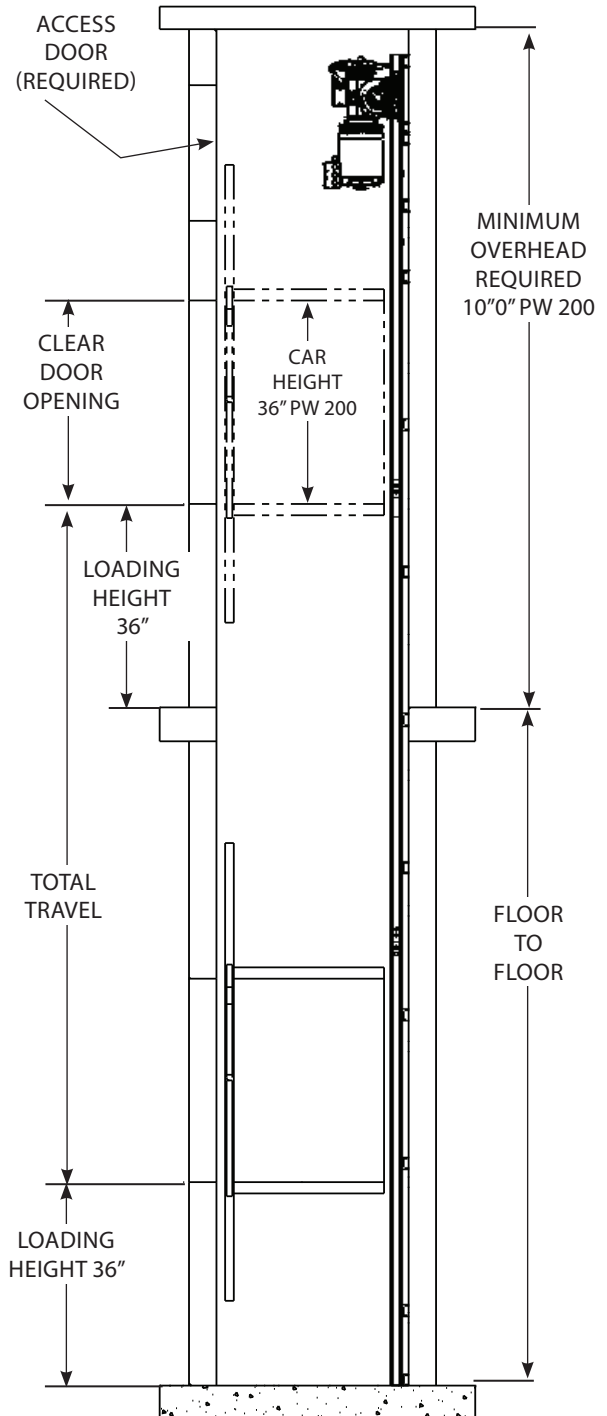
## Below Car

For additional information and dimensions contact your local dealer.

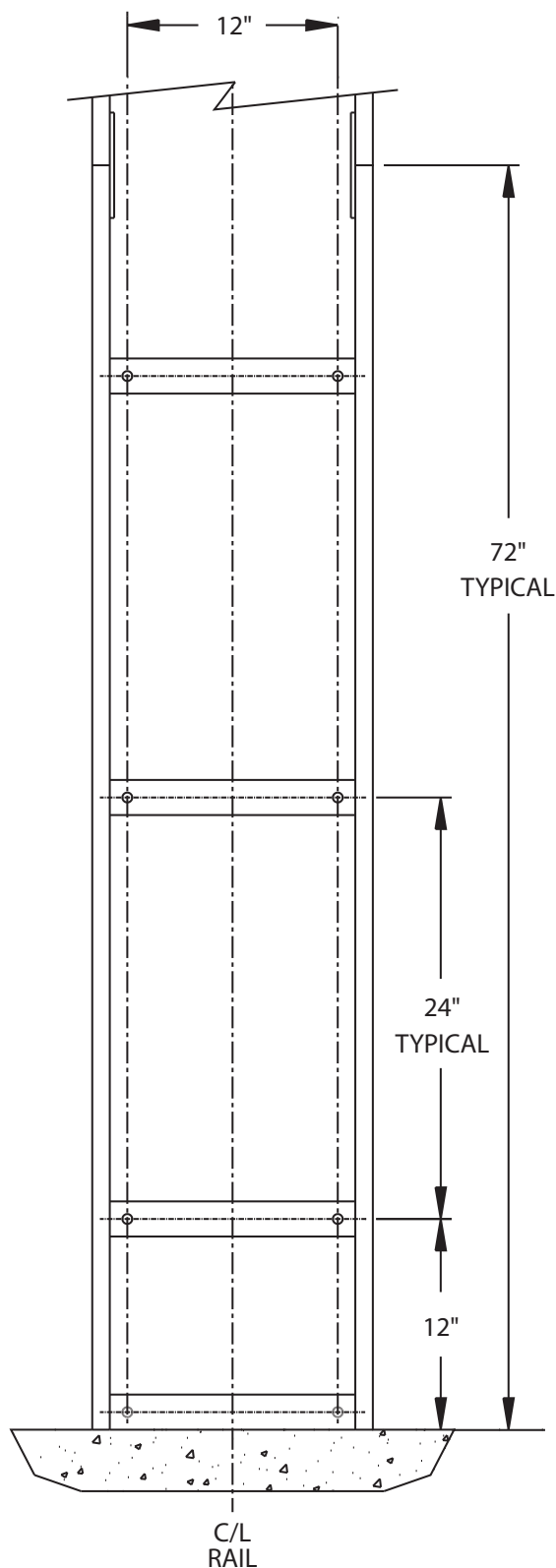


## Above Car

For additional information and dimensions contact your local dealer.

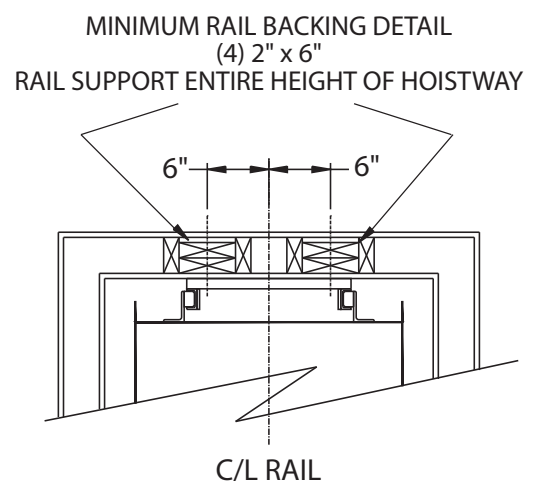
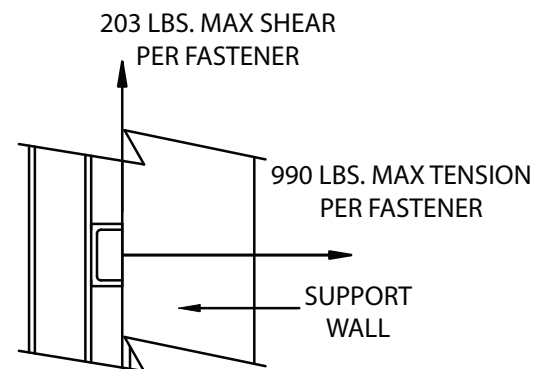


# Hoistway Rail Layout - Residential Paca-Waiter



The typical layouts shown here may vary from your actual hoistway. The purpose of these layouts are for a general understanding. Please refer to Fox Valley Elevator, drawings and specifications provided by your authorized local dealer.

These drawings depict sample layouts 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.

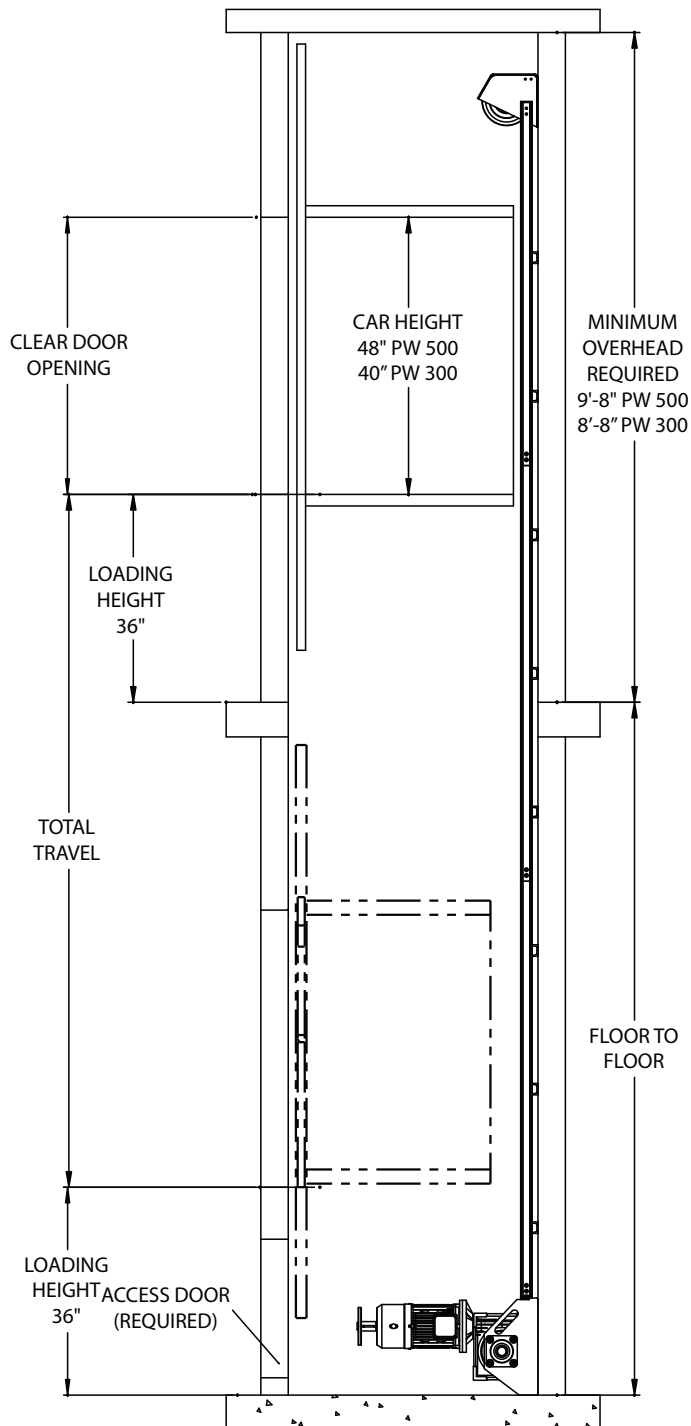


For additional information and dimensions contact your local dealer.

# Elevation Layout - Commercial Paca-Waiter

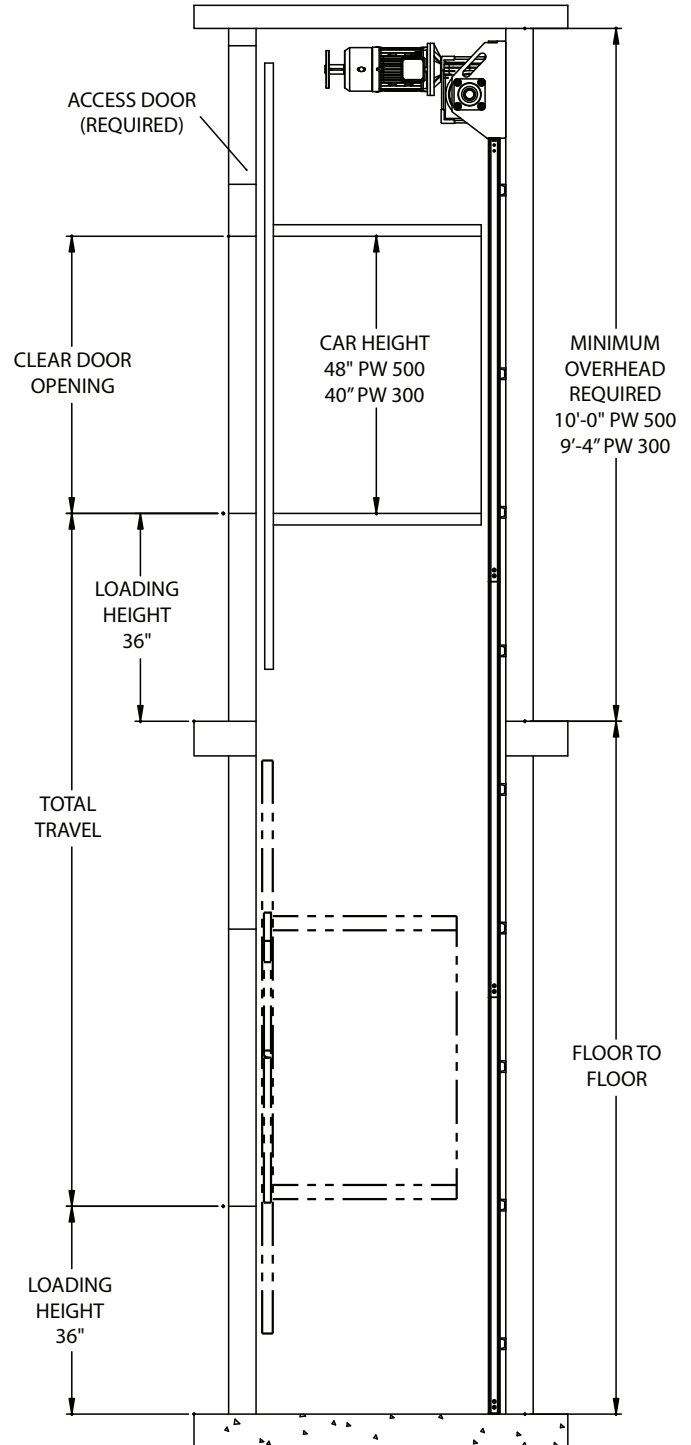
## Below Car

For additional information and dimensions contact your local dealer.



## Above Car

For additional information and dimensions contact your local dealer.

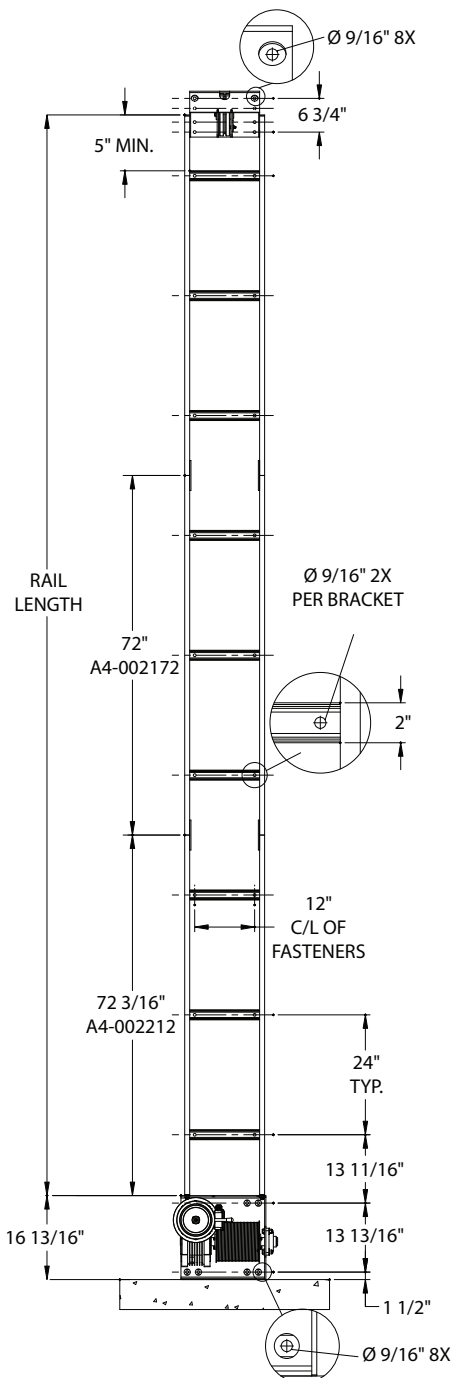


# Hoistway Rail Layout - Commercial Paca-Waiter

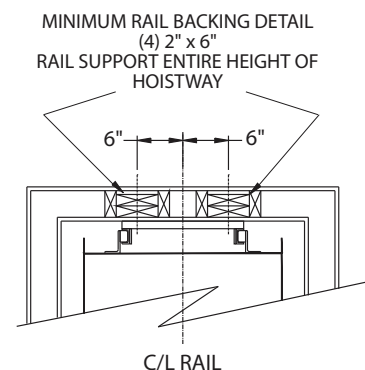
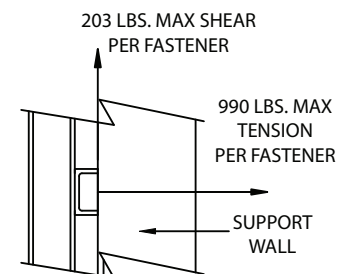
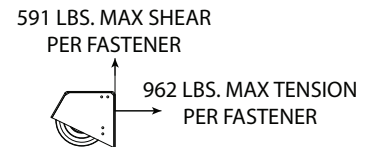
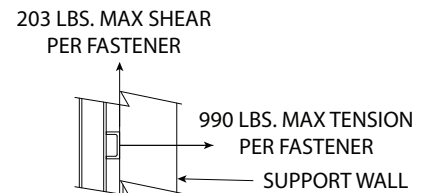
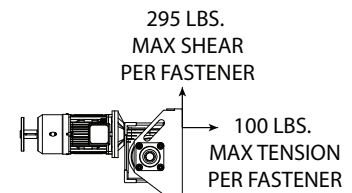
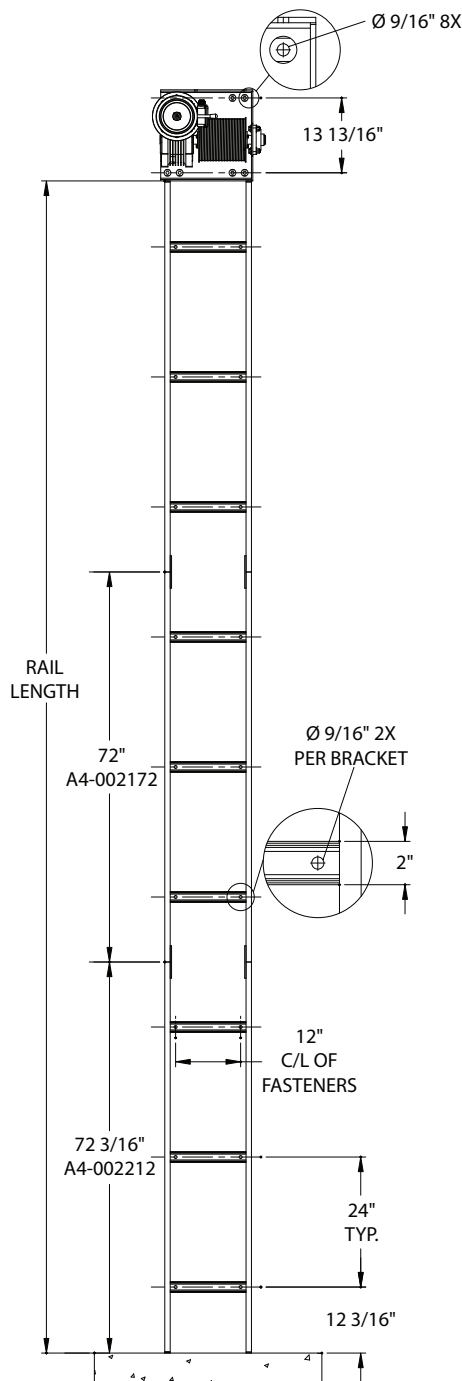
The typical layouts shown here may vary from your actual hoistway. The purpose of these layouts are for a general understanding. Please refer to Fox Valley Elevator, drawings and specifications provided by your local dealer.

These drawings depict sample layouts 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.

## Below Car



## Above Car



# Machinery Spaces, Machine Rooms, Control Spaces, and Control Rooms Layouts & Wiring

(Series F007, F011, F311, F511)

## Disconnect Power Before Wiring

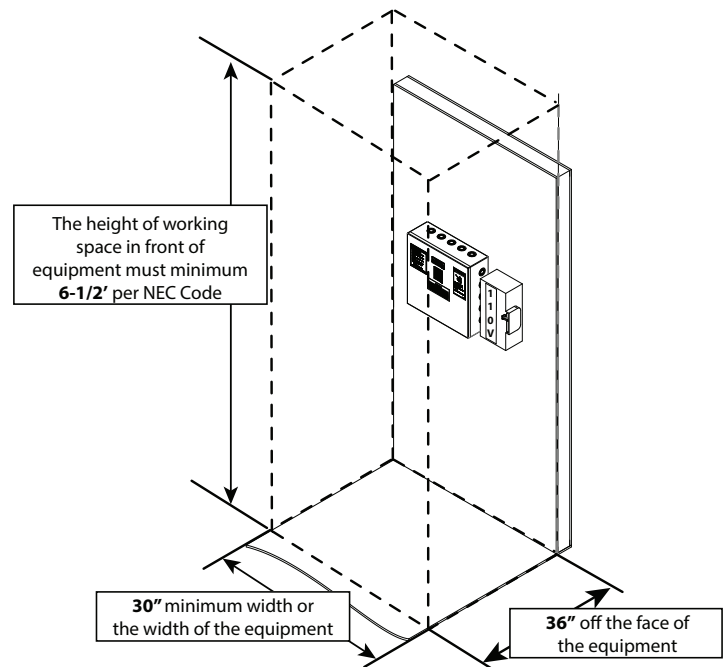
1. Locate controller box in control space as required by code.
2. Wire gauge requirements:
  - 10 gauge wire to powerhead
  - 18 gauge (minimum) wire for all other wiring
3. Refer to unit specific schematics in field drawings to complete wiring.  
Wire per N.E.C. and local codes.
4. Locate disconnect and check for correct fuse size.

### 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 in.
2. Width of Working Space. The width of the working space must be a minimum of 30 in., but in no case less than the width of the equipment.



**NOTE: NOT ALL CONTROLLER TERMINALS OR TRAVEL CABLE WIRE MAY BE USED.**

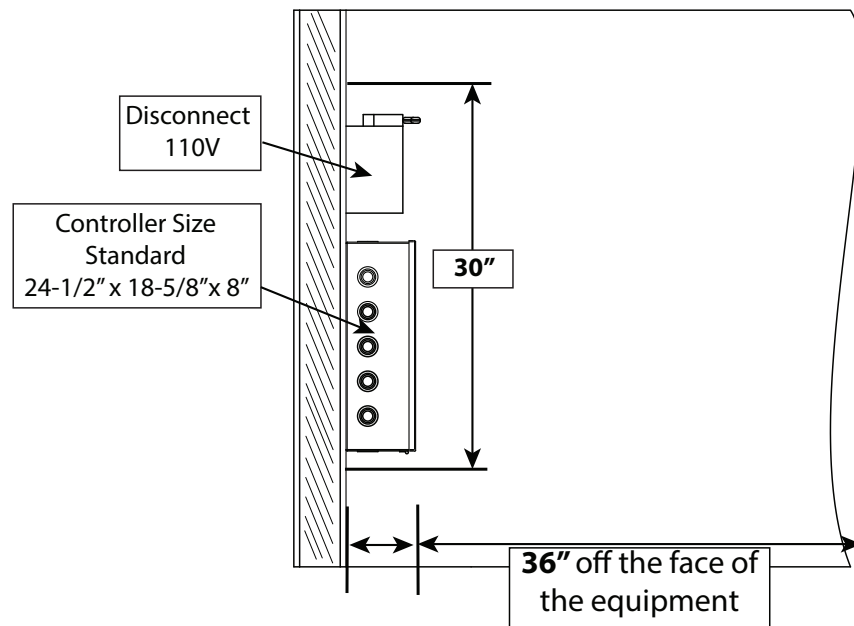
# Machinery Spaces, Machine Rooms, Control Spaces, and Control Rooms Layouts & Wiring

(Series F007, F011, F311, F511)

## Disconnect Power Before Wiring

### Overhead View

Note: The machine room may be placed on any floor of on any level of the home



### 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 ft measured from the grade, floor, platform, or the equipment height, whichever is greater.

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

### Additional Notes

- 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).
- 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%).

# Hoistway Layout

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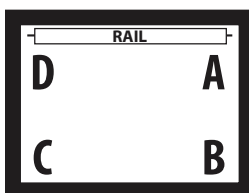
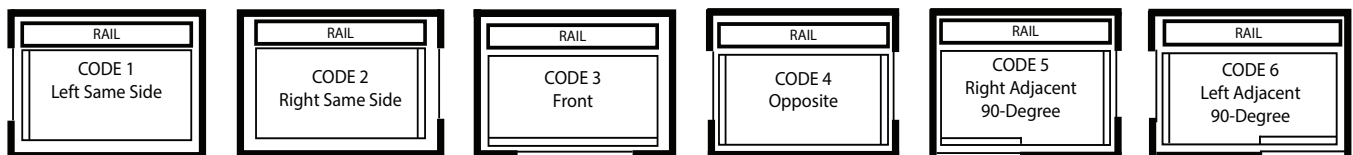
## Notes:

- Dumbwaiter to be installed in accordance with ASME A17.1 Part 7.1, 7.2, and all local codes.
- Electrical room must meet N.E.C. clear space requirements and all local codes.
- Temperature in machine room to be maintained between 60-110° F and must not be exposed to the elements.
- All hoistway doors require an interlock, door handle, and latch set.
- Any alterations to the equipment without written authorization by Fox Valley Elevator, will void all warranties.
- Hoistway must be plum within 1/8 inch per 10 ft. of height and square at any point within 1/4 inch based on difference in diagonal measurements.
- Structure must be capable of supporting the appropriate loads. Local engineering support is recommended.
- Do not complete door and associated framing to one door (preferably at grade level), until dumbwaiter is completely installed.
- The following hoistway illustrations are showing finished dimensions. Finished hoistway dimensions include drywall, plaster, and paint.
- The following information represented for Cable-Waiter (CW) and Paca-Waiter (PW) units are listed as residential **R** and commercial **C** units.

Note the appropriate application when considering a dumbwaiter. If the application is appropriate a commercial unit may installed in a residence.

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## Car Opening Configurations and Coding



1. The DA is the side on which the rail is mounted. The rail is assumed to be mounted on the DA wall as a general point of reference.
2. The first letter refers to the hinged side of the door.
3. The second letter refers to the strike side of the door.

# Example Hoistway Layouts - Dumbwaiter

## Steel Car with Roll top Gates

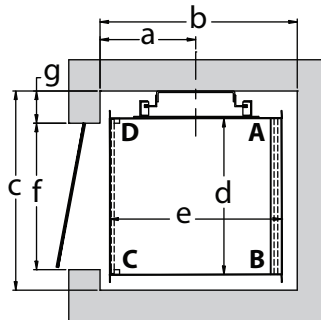
The dumbwaiters listed in the following section are based upon our standard cars.

Dumbwaiter cars can be customized to meet your unique needs in accordance with ASME A17.1.

**Note:**

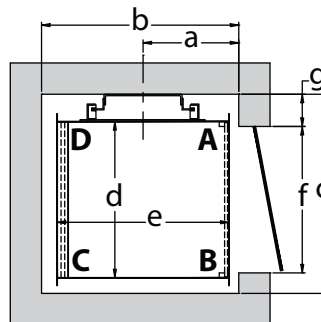
This hoistway sized is depicted for EMI's  
Hoistway size will change if different interlock is used.

**LEFT OPENINGS (DC) CODE 1**



	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions						
			a	b	c	d	e	f	g
R	Cable- Waiter 100 lbs.	20" x 20" x 30"	12.25"	25.25"	25.5"	20"	22"	18.75"	4.125"
R	Paca-Waiter 200 lbs.	26" x 26" x 36"	15.25"	31.25"	33.25"	26"	28"	24.75"	4.875"
R	Paca-Waiter 300 lbs.	30" x 30" x 40"	17.25"	35.25"	37.25"	30"	32"	28.75"	4.875"

**RIGHT OPENINGS (AB) CODE 2**



	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions						
			a	b	c	d	e	f	g
R	Cable- Waiter 100 lbs.	20" x 20" x 30"	12.25"	25.25"	25.5"	20"	22"	18.75"	4.125"
R	Paca-Waiter 200 lbs.	26" x 26" x 36"	15.25"	31.25"	33.25"	26"	28"	24.75"	4.875"
R	Paca-Waiter 300 lbs.	30" x 30" x 40"	17.25"	35.25"	37.25"	30"	32"	28.75"	4.875"



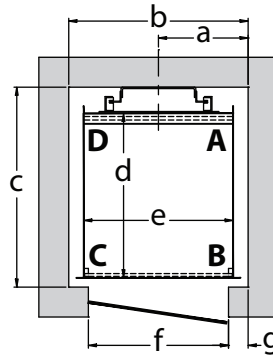
# Example Hoistway Layouts - Dumbwaiter

## Steel Car with Roll top Gates

The dumbwaiters listed in the following section are based upon our standard cars.

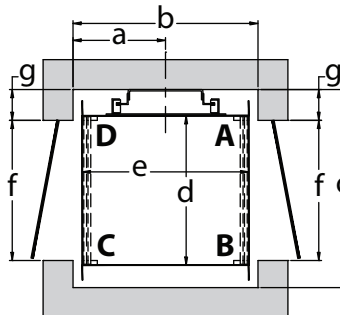
Dumbwaiter cars can be customized to meet your unique needs in accordance with ASME A17.1.

**FRONT OPENINGS (CB) CODE 3**



	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions						
			a	b	c	d	e	f	g
R	Cable- Waiter 100 lbs.	20" x 20" x 30"	12"	24"	26.75"	22"	20"	18.75"	2.625"
R	Paca-Waiter 200 lbs.	26" x 26" x 36"	16"	32"	33.5"	28"	26"	24.75"	3.625"
R	Paca-Waiter 300 lbs.	30" x 30" x 40"	18"	36"	37.5"	32"	30"	28.75"	3.625"

**OPPOSITE OPENINGS (AB DC) CODE 4**



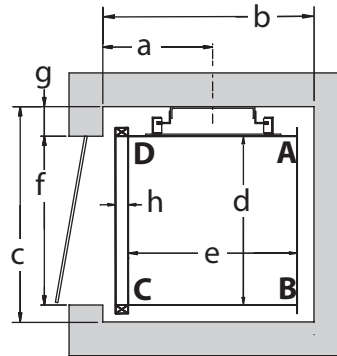
	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions						
			a	b	c	d	e	f	g
R	Cable- Waiter 100 lbs.	20" x 20" x 30"	12.375"	24.75"	26.5"	20"	22.25"	18.75"	4.125"
R	Paca-Waiter 200 lbs.	26" x 26" x 36"	15.375"	30.75"	30.75"	26"	28.25"	24.75"	4.875"
R	Paca-Waiter 300 lbs.	30" x 30" x 40"	17.375"	34.75"	37.25"	30"	32.25"	28.75"	4.875"

# Example Hoistway Layouts - Dumbwaiter

## Steel Car with Bi-parting or Slide-up Gates

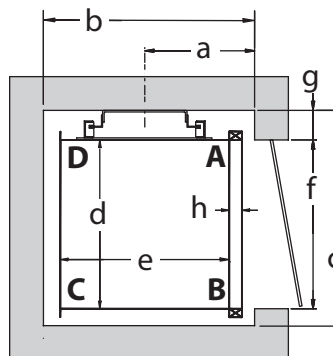
The dumbwaiters listed in the following section are based upon our standard cars.  
Dumbwaiter cars can be customized to meet your unique needs in accordance with ASME A17.1.

**LEFT OPENINGS (DC) CODE 1**



	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions							
			a	b	c	d	e	f	g	h
R	Cable- Waiter 100 lbs.	20" x 20" x 30"	13"	25"	25.5"	20"	20"	20"	3.5"	1.5"
R	Paca-Waiter 200 lbs.	26" x 26" x 36"	16"	31"	33.25"	26"	26"	26"	4.25"	1.5"
R	Paca-Waiter 300 lbs.	30" x 30" x 40"	18"	35"	37.25"	30"	30"	30"	4.25"	1.5"
R	Paca-Waiter 500 lbs.	36" x 36" x 48"	21"	41"	43.25"	36"	36"	36"	4.25"	1.5"

**RIGHT OPENINGS (AB) CODE 2**



	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions							
			a	b	c	d	e	f	g	h
R	Cable- Waiter 100 lbs.	20" x 20" x 30"	13"	25"	25.5"	20"	20"	20"	3.5"	1.5"
R	Paca-Waiter 200 lbs.	26" x 26" x 36"	16"	31"	33.25"	26"	26"	26"	4.25"	1.5"
R	Paca-Waiter 300 lbs.	30" x 30" x 40"	18"	35"	37.25"	30"	30"	30"	4.25"	1.5"
R	Paca-Waiter 500 lbs.	36" x 36" x 48"	21"	41"	43.25"	36"	36"	36"	4.25"	1.5"

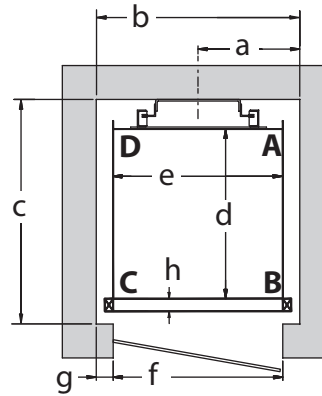
# Example Hoistway Layouts - Dumbwaiter

## Steel Car with Bi-parting or Slide-up Gates

The dumbwaiters listed in the following section are based upon our standard cars.

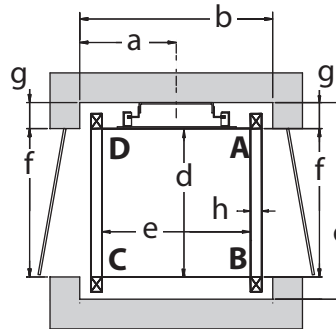
Dumbwaiter cars can be customized to meet your unique needs in accordance with ASME A17.1.

**FRONT OPENINGS (CB) CODE 3**



	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions							
			a	b	c	d	e	f	g	h
R	Cable- Waiter 100 lbs.	20" x 20" x 30"	12"	24"	26.5"	20"	20"	20"	2"	1.5"
R	Paca-Waiter 200 lbs.	26" x 26" x 36"	16"	32"	33.25"	26"	26"	26"	3"	1.5"
R	Paca-Waiter 300 lbs.	30" x 30" x 40"	18"	36"	37.25"	30"	30"	30"	3"	1.5"
R	Paca-Waiter 500 lbs.	36" x 36" x 48"	21"	42"	43.25"	36"	36"	36"	3"	1.5"

**OPPOSITE OPENINGS (AB DC) CODE 4**



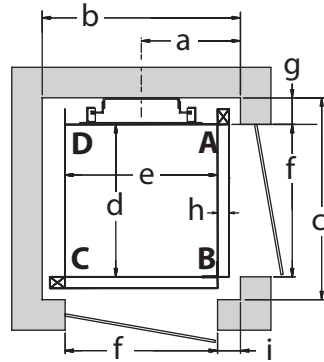
	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions							
			a	b	c	d	e	f	g	h
R	Cable- Waiter 100 lbs.	20" x 20" x 30"	13"	26"	26.5"	20"	20"	20"	3.5"	1.5"
R	Paca-Waiter 200 lbs.	26" x 26" x 36"	16"	32"	33.25"	26"	26"	26"	4.25"	1.5"
R	Paca-Waiter 300 lbs.	30" x 30" x 40"	18"	36"	37.25"	30"	30"	30"	4.25"	1.5"
R	Paca-Waiter 500 lbs.	36" x 36" x 48"	21"	42"	43.25"	36"	36"	36"	4.25"	1.5"

# Example Hoistway Layouts - Dumbwaiter

## Steel Car with Bi-parting or Slide-up Gates

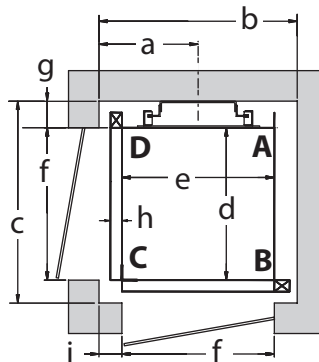
The dumbwaiters listed in the following section are based upon our standard cars.  
Dumbwaiter cars can be customized to meet your unique needs in accordance with ASME A17.1.

**RIGHT ADJACENT OPENINGS (AB CB)**  
CODE 5



	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions								
			a	b	c	d	e	f	g	h	i
R	Cable- Waiter 100 lbs.	20" x 20" x 30"	13"	26"	26.5"	20"	20"	20"	3.5"	1.5"	3"
R	Paca-Waiter 200 lbs.	26" x 26" x 36"	16"	32"	33.25"	26"	26"	26"	4.25"	1.5"	3"
R	Paca-Waiter 300 lbs.	30" x 30" x 40"	18"	36"	37.25"	30"	30"	30"	4.25"	1.5"	3"
R	Paca-Waiter 500 lbs.	36" x 36" x 48"	21"	42"	43.25"	36"	36"	36"	4.25"	1.5"	3"

**LEFT ADJACENT OPENINGS (DC BC)**  
CODE 6

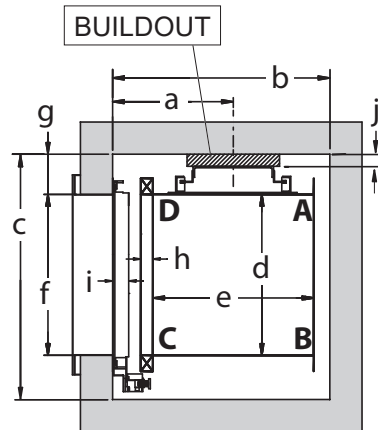


	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions								
			a	b	c	d	e	f	g	h	i
R	Cable- Waiter 100 lbs.	20" x 20" x 30"	13"	26"	26.5"	20"	20"	20"	3.5"	1.5"	3"
R	Paca-Waiter 200 lbs.	26" x 26" x 36"	16"	32"	33.25"	26"	26"	26"	4.25"	1.5"	3"
R	Paca-Waiter 300 lbs.	30" x 30" x 40"	18"	36"	37.25"	30"	30"	30"	4.25"	1.5"	3"
R	Paca-Waiter 500 lbs.	36" x 36" x 48"	21"	42"	43.25"	36"	36"	36"	4.25"	1.5"	3"

# Example Hoistway Layouts - Dumbwaiter Steel Car with Bi-parting or Slide-up Gates and Commercial Doors

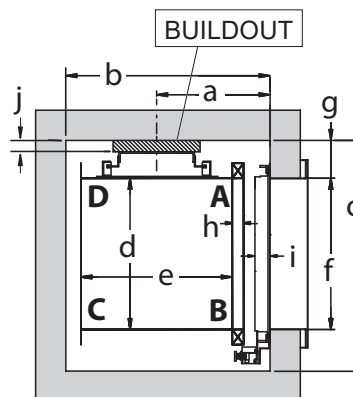
The dumbwaiters listed in the following section are based upon our standard cars. Dumbwaiter cars can be customized to meet your unique needs in accordance with ASME A17.1.

**LEFT OPENINGS (DC)**  
CODE 1



	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions									
			a	b	c	d	e	f	g	h	i	J
<b>C</b>	Paca-Waiter 300 lbs.	30" x 30" x 40"	20"	37"	41.25"	30"	30"	30"	5"	1.5"	2"	.75"
<b>C</b>	Paca-Waiter 500 lbs.	36" x 36" x 48"	23"	23"	47.25"	36"	36"	36"	5"	1.5"	2"	.75"

**RIGHT OPENINGS (AB)**  
CODE 2

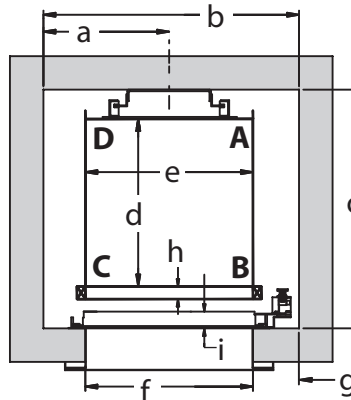


	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions									
			a	b	c	d	e	f	g	h	i	J
<b>C</b>	Paca-Waiter 300 lbs.	30" x 30" x 40"	20"	37"	41.25"	30"	30"	30"	5"	1.5"	2"	.75"
<b>C</b>	Paca-Waiter 500 lbs.	36" x 36" x 48"	23"	23"	47.25"	36"	36"	36"	5"	1.5"	2"	.75"

# Example Hoistway Layouts - Dumbwaiter Steel Car with Bi-parting or Slide-up Gates and Commercial Doors

The dumbwaiters listed in the following section are based upon our standard cars. Dumbwaiter cars can be customized to meet your unique needs in accordance with ASME A17.1.

**FRONT OPENINGS (CB)**  
CODE 3

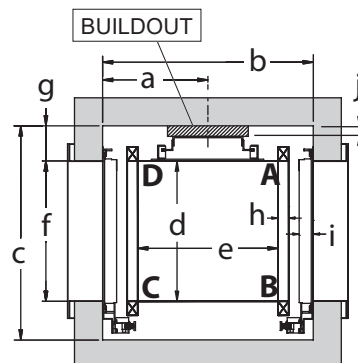


	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions								
			a	b	c	d	e	f	g	h	i
C	Paca-Waiter 300 lbs.	30" x 30" x 40"	20"	41.25"	39.25"	30"	30"	30"	6.25"	1.5"	2"
C	Paca-Waiter 500 lbs.	36" x 36" x 48"	23"	47.25"	45.25"	36"	36"	36"	6.25"	1.5"	2"

## Note:

This hoistway sized is depicted with commercial interlocks (HG1, HG2)  
Hoistway size will change if different interlock is used.

**OPPOSITE OPENINGS (AB DC)**  
CODE 4

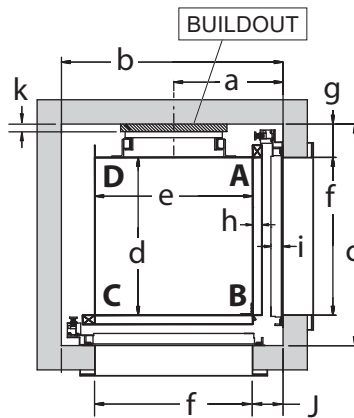


	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions									
			a	b	c	d	e	f	g	h	i	
C	Paca-Waiter 300 lbs.	30" x 30" x 40"	20"	40"	41.25"	30"	30"	30"	5"	1.5"	2"	.75"
C	Paca-Waiter 500 lbs.	36" x 36" x 48"	23"	46"	47.25"	36"	36"	36"	5"	1.5"	2"	.75"

# Example Hoistway Layouts - Dumbwaiter Steel Car with Bi-parting or Slide-up Gates and Commercial Doors

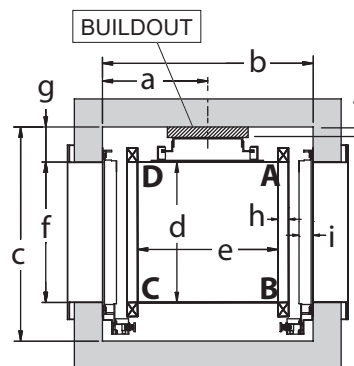
The dumbwaiters listed in the following section are based upon our standard cars. Dumbwaiter cars can be customized to meet your unique needs in accordance with ASME A17.1.

**RIGHT OPENINGS (AB CB)**  
CODE 5



	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions										
			a	b	c	d	e	f	g	h	i	J	k
C	Paca-Waiter 300 lbs.	30" x 30" x 40"	20"	41.25"	41.25"	30"	30"	28"	6.25"	1.5"	2"	7"	2"
C	Paca-Waiter 500 lbs.	36" x 36" x 48"	23"	47.25"	47.25"	36"	36"	34"	6.25"	1.5"	2"	7"	2"

**LEFT OPENINGS (DC BC)**  
CODE 6



	Dumbwaiter Type	Car Size	Finish Hoistway Dimensions										
			a	b	c	d	e	f	g	h	i	J	k
C	Paca-Waiter 300 lbs.	30" x 30" x 40"	20"	41.25"	41.25"	30"	30"	28"	6.25"	1.5"	2"	7"	2"
C	Paca-Waiter 500 lbs.	36" x 36" x 48"	23"	47.25"	47.25"	36"	36"	34"	6.25"	1.5"	2"	7"	2"

# Notes





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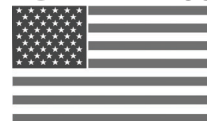
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**800-238-8739**  
foxvalleyelevator.com  
1726 North Ballard Road • Suite 1  
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