

Elevation Innovation Inc.

Dumbwaiter Planning Guide

This planning guide is to be used as a reference in deciding the type and configuration of dumbwaiter to be installed. This guide will show the steps taken to achieve a correct dumbwaiter installation. This guide may be used by home owners, contractors, dealers and architects. The information in this guide is intended as an overview, each installation will have individual and job specific specifications that must be followed. Consult a licensed contractor prior to attempting the construction of the dumbwaiter hoist-way.

Dumbwaiter installation is to be done with the installation instructions provided with your system, and must also be in compliance with the requirements of the national electrical code, American Society of Mechanical Engineers safety code, and state and local building codes. Elevation Innovation products are designed to meet the requirements of the USA ASME A17.1 and Canadian CSA- B44 national elevator codes for dumbwaiters. Dumbwaiters manufactured by Elevation Innovation and installed under the proper parameters have a residential warranty of 5 years, and 3 years for commercial (longest in the industry). Manufacturer assumes no liability for equipment not installed in compliance with these codes.

Elevation Innovation Inc reserves the right to modify the design, technical specifications and products shown in this document.

Planning Steps

1 - Contact Elevation Innovation for a local dealer if required by code:

- A - Select weight capacity, car type and design specifications
- B - Research national, state and local code requirements
- C - Determine the hoist-way size required and available
- D - Car size, layout and available options
- E - Machine location (below standard or above for flood zone or 4 stops+)
- F - Electrical requirements (most systems require 120 volt 1 PH 15 amp)

Many locations allow the residential controller in the hoist-way, requires standard plug 12" above floor or below the ceiling for overhead motor. Controller can be mounted on the inside of the machine room door. This makes wiring and trouble shooting easy as the door swings into the easy to access room.

2 - Obtain and follow site specific field drawings while building hoist-way, door openings and any other construction related to the dumbwaiter.

3 - Coordinate with a licensed contractor for the construction of the dumbwaiter hoist-way and a licensed elevator contractor for installation if required in your locality.

Dumbwaiter Size and Weight Capacity Reference

Econo-Lift® Residential Dumbwaiter Systems:

Weight Capacity: 100 Lbs. 20"x20"x30" tall or 150 Lbs. 24"x24"x30" tall or custom size

Travel: available: up to 45'

Stops: up to 4 stops

Nominal Speed: 30 Feet per minute with optional 50 feet per minute travel speed

Overhead: Required space above the car on the top floor - 3", can come up under 36" counter

Electrical requirements: 120 volts 1Ph 15 amp circuit (in bottom of hoist-way or at controller location)

Drive System: Winding drum

Motor: 1/2 Horsepower for 30 FPM travel speed or 3/4 Horsepower for 50 FPM travel speed

230 Volt 3 Phase industrial grade gear motors from Germany. VFD drive converts the 120V 1Ph

Controller Size: 16" x 16" x 6" deep

Sheave: 4-1/2" diameter

Winding Drum: 4-1/2" diameter

Cable Type: 1/8" 7x19 construction galvanized elevator lifting cable

Rail Type: Aluminum extruded 6061-T6 alloy (strongest aluminum alloy available)

Machine Placement: Below standard, above for flood zones

Car Gate: Extruded aluminum and PVC roll up gate system with nylon corners (life time gate)

Hoist-way Doors available: 20 minute fire rated stain grade birch, stainless steel 90 minute fire rated

Inteli-Lift Residential Dumbwaiter Systems:

Weight Capacity: 75 Lbs. 18"x18"x24", 125 Lbs. 24"x24"x24", 250Lb 28"x28"x28" Custom sizes

250Lb up to 30"x30"x30"x36", 300 and 500Lb systems up to 36" x 36" x 48" tall.

Travel: available: up to 75'

Stops: up to 9 stops

Nominal Speed: 30 Feet per minute with optional 50 feet per minute travel speed

Overhead: Required space above the car on the top floor - 3", can come up under 36" counter for 75Lb and 125Lb. 250Lb and above systems require 16" above the top of the car

Electrical requirements: 120 volts 1Ph 15 amp circuit (in bottom of hoist-way or at controller location)

Drive System: Winding drum

Motor: 1/2 Horsepower for 30 FPM travel speed or 3/4 Horsepower for 50 FPM travel speed

230 Volt 3 Phase industrial grade gear motors from Germany. VFD drive converts the 120V 1Ph

300 and 500Lb units 2 Horsepower 130 volt 1 Ph

Controller Size: 16" x 16" x 6" deep

Sheave: 4-1/2" diameter / 300 and 500Lb 8" diameter

Winding Drum: 4-1/2" diameter / 300 / 500Lb 8" diameter

Cable Type: 1/8" 7x19 construction galvanized elevator lifting cable / 300 and 500Lb 1/4" 7x19

Rail Type: Aluminum extruded 6061-T6 alloy (strongest aluminum alloy available)

Machine Placement: Below standard, above for flood zones

Car Gate: Extruded aluminum and PVC roll up gate system with nylon corners (life time gate)

300 and 500Lb Bi-Parting or Slide Up 3/4" thick expanded PVC stainless steel laminated

Hoist-way Doors available: 20 minute fire rated stain grade birch, stainless steel 90 minute fire rated
Swing, Bi-Parting or Slide Up

Cab Gate information

The cab gate is attached to the car and travels up and down with it up and down in the hoist-way and keeps the items secure. Most car gates are equipped with an electrical switch that keeps the unit from running if the cab gate is open. This is an optional safety for residential units.



Roll Up Birch Cab



Roll Up Stainless Steel Cab



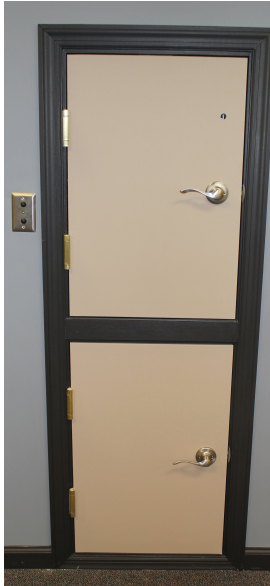
Bi-Parting



Slide Up

(shown with stainless protective coating)

Hoist-way Door Options

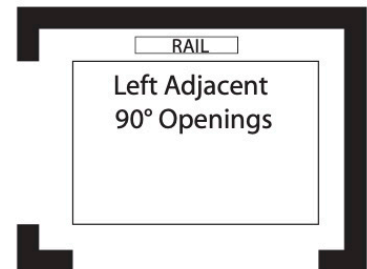
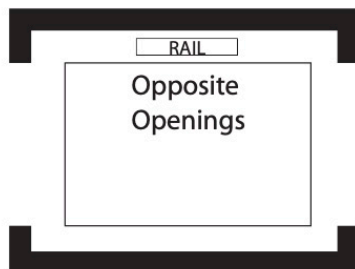
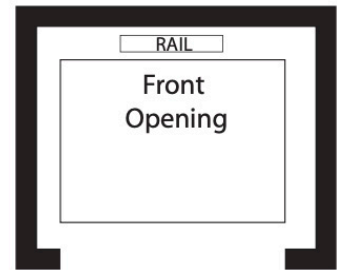
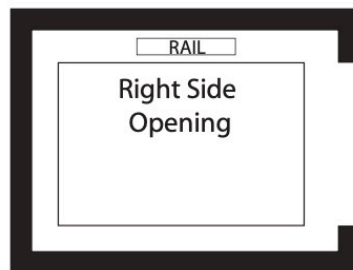
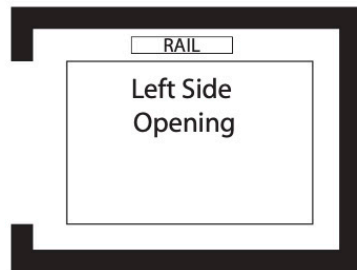


20 Minute fire stain grade birch Swing 90 Minute Fire Rated Stainless Swing



90 Minute Rated Bi-Parting Stainless 90 Minute Rated Slide Up Stainless
Available in a primed finish for field painting

Car Opening Configurations Available



* Econo-Lift® Available with three sides open

Hoist-way Lay Out and Dimensions Required

Refer to our website for standard hoist-way dimensions and lay out.

Residential Econo-Lift® Hoist-Way Drawings

<https://eilifts.com/residential-dumbwaiter-drawings/>

Commercial and large Residential Intelli-Lift Drawings

<https://eilifts.com/commercial-dumbwaiter-drawings/>

Contact a sales representative at Elevation Innovation Inc for any and all details, questions or concerns. We have licensed elevator contractors in all areas of the USA and Canada.

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