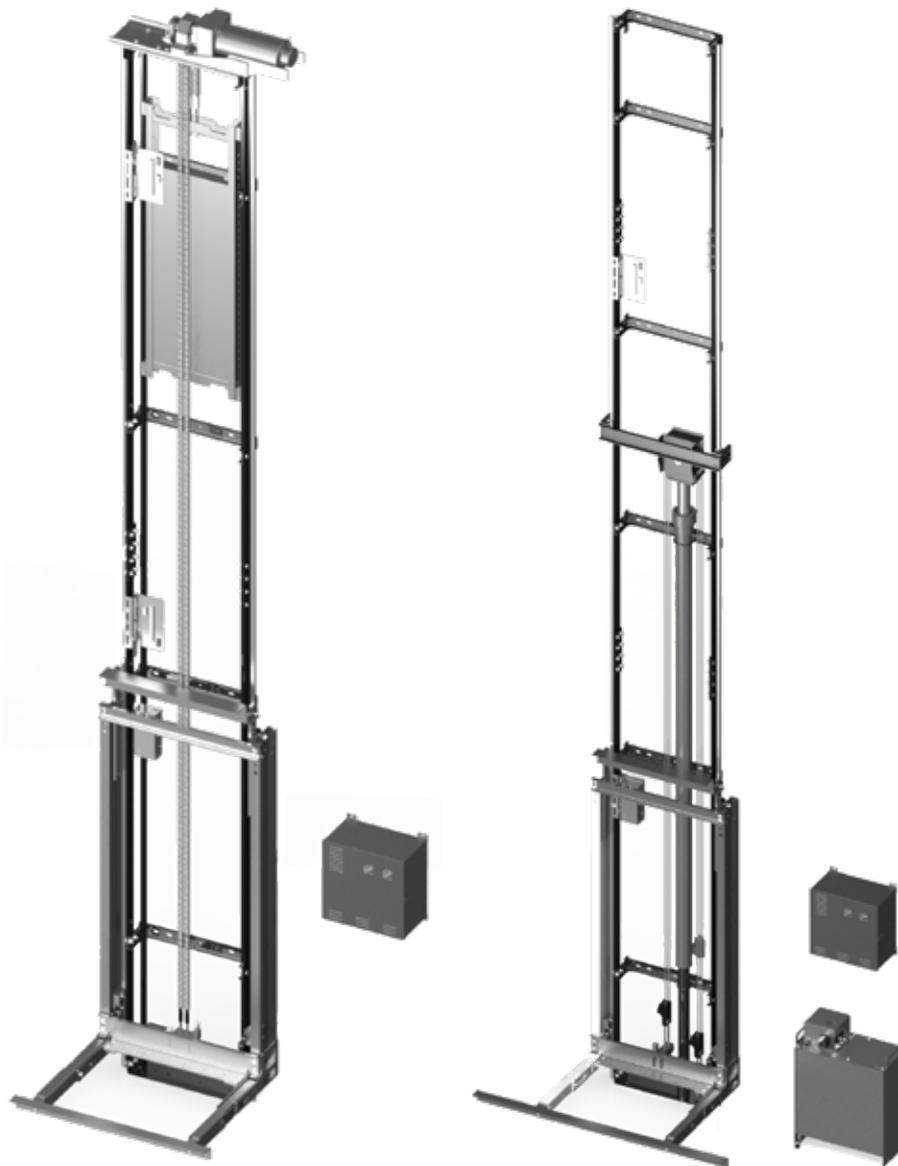


# Home Elevator DESIGN GUIDE

ASME A17.1, Section 5.3



# WELCOME

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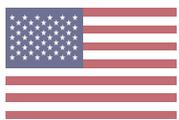
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## ABOUT

# CIBES SYMMETRY

Our company was founded in 2008, by an entrepreneurial group of people, driven by the vision of elevating life across the US. Today, Symmetry has become a household name for elevators in North America, with high rankings on the Forbes List for Best Home Elevators.

In 2022, we joined forces with global Swedish elevator manufacturer Cibes Lift Group and became Cibes Symmetry. Together, we offer you close to a century of consolidated knowledge, combining Swedish innovation and design with US craftsmanship and expertise. Our wide range of ADA and ASME compliant elevating solutions is manufactured in the US and in Sweden and distributed through our nationwide network of authorized dealers.

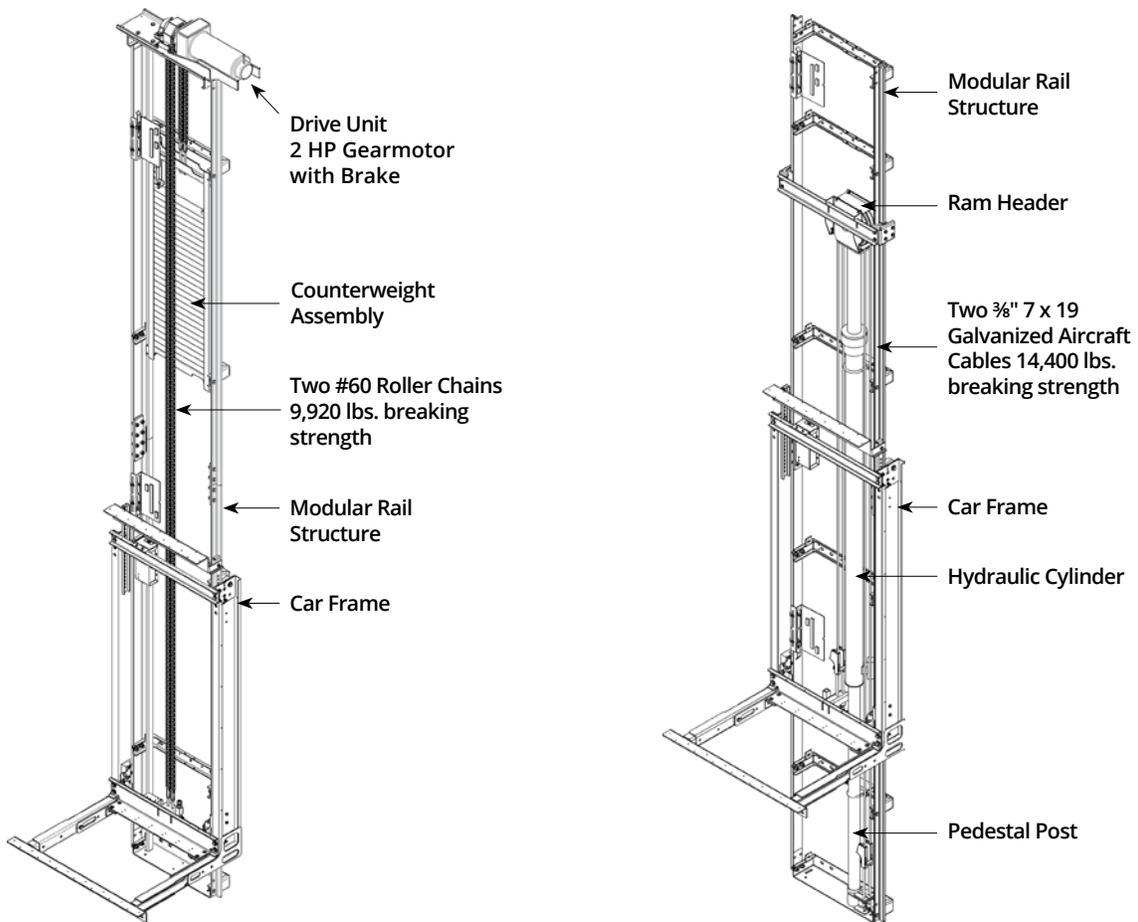


We provide beautifully crafted, expertly engineered accessibility related products across America. We market our residential elevators, home and commercial lifts, and low-rise commercial elevators through an exclusive network of carefully chosen Cibes Symmetry Partners.

***Please note that this guide is for planning purposes only, applies exclusively to national code and should not be used for construction. Prior to construction, please contact your local Cibes Symmetry representative and request a job-specific set of plans to ensure that you obtain the accurate dimensions and requirements for your project.***

***Your representative will also assist you to identify resources to ensure that your project plans will comply with the applicable state and local codes and the permitting authorities.***

# TECHNICAL SPECIFICATIONS TECHNOLOGIES COMPARED



Inline Gear Drive	Hydraulic Drive
Overhead: Minimum of 8' 0" (96") with remote controller; minimum of 9' 0" with controller in hoistway with a 7' 0" interior car height	Overhead: Minimum of 7' 10" (94") with a 7' 0" interior car height
Equipment	Equipment
208/230 VAC, 60 Hz, 20 amp, single-phase power supply for motor controller	208/230 VAC, 60 Hz, 30 amp, single-phase power supply for motor controller
Two #60 roller chains (9,920 lbs. breaking strength)	Two 3/8" 7 x 19 galvanized aircraft cables (14,400 lbs. breaking strength) with wedge rope shackles
Inverter-controlled variable speed Inline Gear Drive unit with counterweight and 2 HP motor	80 mm diameter piston/102 mm diameter cylinder including 3/4" reducer bushing & 3 HP submersed motor with 2-speed valve assembly
Manual lowering device	Manual down valve for emergency lowering
Safety Features	Safety Features
Slack chain safety device	Slack rope safety device
Two upper and one lower final limits & Machine stop switch	Line rupture valve

# TECHNICAL SPECIFICATIONS

## COMMON SPECIFICATIONS

Standard Features	
<b>Travel</b>	Maximum of 50' 0" (minimum 12" between stops)
<b>Speed</b>	40 fpm
<b>Rated Capacity</b>	1,000 lbs.
<b>Pit Depth</b>	6 in minimum (8 preferred)
<b>Stops</b>	2
<b>Opening</b>	Single
<b>Warranty</b>	Three-year limited parts
Safety Features	
<ul style="list-style-type: none"> <li>- Motor controller supply disconnects (located in controller)</li> <li>- Car light supply disconnects (located in controller)</li> <li>- Pit stop switch</li> <li>- Car-top stop switch</li> <li>- In-car emergency stop switch and alarm</li> <li>- Safety Switch for car gates/doors</li> <li>- Battery backup emergency car lights and alarm</li> <li>- Electro-mechanical hoistway door locking devices (doors by others)</li> <li>- Enhanced gate bypass monitor</li> <li>- Unauthorized hoistway entry detection</li> </ul>	
Controls	
<ul style="list-style-type: none"> <li>- Programmable Logic Controller (PLC)</li> <li>- Non-selective collective automatic operation</li> <li>- S.M.A.R.T. system (Self-Monitoring Alert Response Technology)</li> <li>- Car Operating Panel (COP) with LED floor position indicator§</li> <li>- Integrated phone with keypad</li> <li>- Hall stations with call button and LED floor position indicator§</li> <li>- Automatic car lighting</li> <li>- Single floor designated car homing</li> <li>- Uninterruptible Power Supply (UPS) for car lowering and automatic car gate/door operation (if provided) in the event of a power failure*</li> </ul>	
Standard Car Features	
<b>Car Size</b>	Up to 15 ft <sup>2</sup>
<b>Car Height</b>	7' 0"
<b>Interior Walls and Ceiling</b>	Birch or Red Oak flat veneer*
<b>Handrail/ Car Sill</b>	The car sill is not always matching wood depending on the car gate/door selected
<b>Floor Finish</b>	Unfinished plywood floor with sill set for ¾" (Flooring by others)
<b>Lighting</b>	2 energy saving recessed LEDs with Black trim rings
<b>Car Door Finish</b>	Light Oak, Birch or White 7' 0" laminate

Equipment	
<ul style="list-style-type: none"> <li>- Modular 6 ¼ lb. T-rail structure</li> <li>- Car frame assembly</li> <li>- Power supply for motor controller (see each drive for details on page 3)</li> <li>- 120 VAC, 60 Hz, 15 amp, single-phase power supply</li> <li>- Code-compliant electrical disconnects included*</li> </ul>	
Optional Features	
<b>Stops</b>	Up to 6 stops
<b>Car Size</b>	Up to 18 ft <sup>2</sup> **
<b>Car Height</b>	6' 8" & 7' 11"
<b>Car Finish</b>	Factory-finished Car
<b>Interior Walls</b>	Shaker, Recessed or Raise Panel Asterix or Dream
<b>Ceiling</b>	Flat or match walls
<b>Fixtures</b>	Polished or Blackened Stainless Steel Brushed, Polished or Oil-Rubbed Brass or Powder-coated Steel
<b>COP</b>	With or without Key Switch Asterix COP on flat veneer only
<b>Hall Stations</b>	With or without key switch and position indicator
<b>Buffer Springs</b>	Where required Minimum of 7 ⅛" pit depth
<b>Rated Capacity</b>	750 lbs.
<b>Car Entrance Safety System</b>	Light curtain monitoring car entrance
<b>Door Locks</b>	Symmetry Locking Device (SLD) Atlas Interlock and Honeywell Interlock
<b>Warranty</b>	Extended warranties available
Car Gate/ Landing Door Options	
<ul style="list-style-type: none"> <li>- 3-Panel car door*</li> <li>- Automatic Double Landing Door*</li> <li>- Two or Three Speed car door and landing doors</li> <li>- Enterprise collapsible gate</li> <li>- Dark Oak, Chalk, Antique White, Cherry, Walnut or Black laminate accordion door</li> <li>- Hardwood veneer accordion door</li> <li>- Clear or Bronze acrylic panel accordion door</li> <li>- Automatic car gate/door operator (not available on the Enterprise collapsible gate)</li> <li>- 1½ hour fire-rated steel door [B-Label]</li> </ul>	

\*Denotes exclusive features.

\*\*May require approval from the local authority having jurisdiction and affect capacity.

§Standard finish is Brushed Stainless Steel, but multiple finishes available.

# HOISTWAY PREPARATION PIT, OVERHEAD & MORE

## Rail Backing & General Hoistway

- › Provide adequate rail backing per drawings. For vertical spans between floor systems that exceed 10' 0", please consult a structural engineer. The wall must be capable of supporting the static roller/rail loads without deflecting more than 1/8".
- › The hoistway must be constructed square and plumb within 1/8" tolerance throughout.
- › The hoistway must be free of any obstructions not related to the operation of the elevator. (i.e. sprinklers, pipes, ducts, etc)
- › The structure of the hoistway must allow for installation of a chain hoist to transfer materials during installation.
- › Provide hoistway doors that are a minimum of 3' 0" x 6' 8" and solid core construction.

## Pit Floor

- › Provide a pit floor at a minimum of 6" (8" preferred) from the top of the finished floor to the highest point in the pit. (Note: Three Speed Car and Landing Doors require a minimum of 10" pit depth.)
- › Provide a pit floor capable of withstanding the impact load of 6,766 lbs. and the static load of 3,840 lbs.

## Overhead

- › Inline Gear Drive
  - ›› Provide a minimum overhead of 8' 0" for a 7' 0" interior car height with a remote mounted controller.
  - ›› Provide a minimum overhead of 9' 0" for a 7' 0" interior car height with an in-the-shaft controller.
- › If a Shaker, Recessed or Raised panel ceiling is used, an additional inch of overhead is required.

## Drive Specific Items

- › **Inline Gear Drive**
  - ›› Provide a minimum 8" x 8" access hatch at the top of the hoistway for manual lowering.  
(See Access Hatch Detail page 8)

# HOISTWAY PREPARATION

## RAIL BACKING CONSTRUCTION

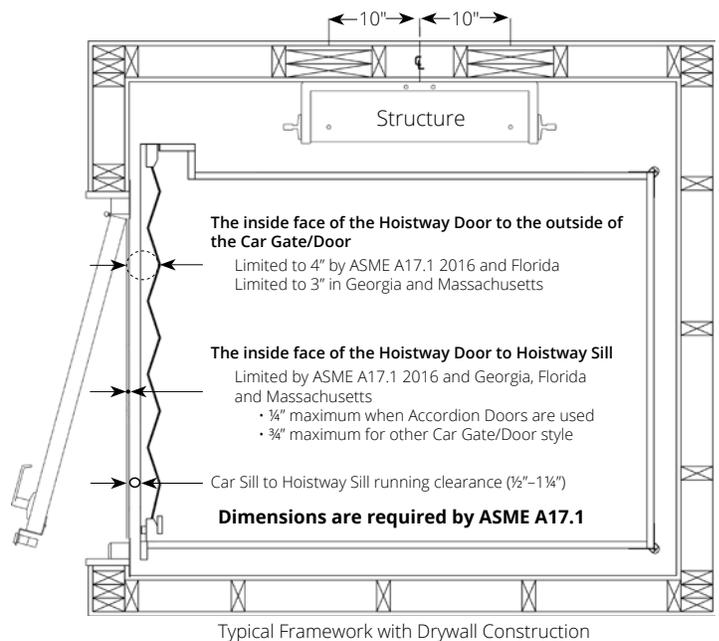
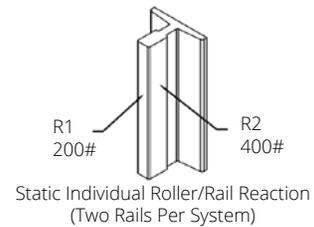
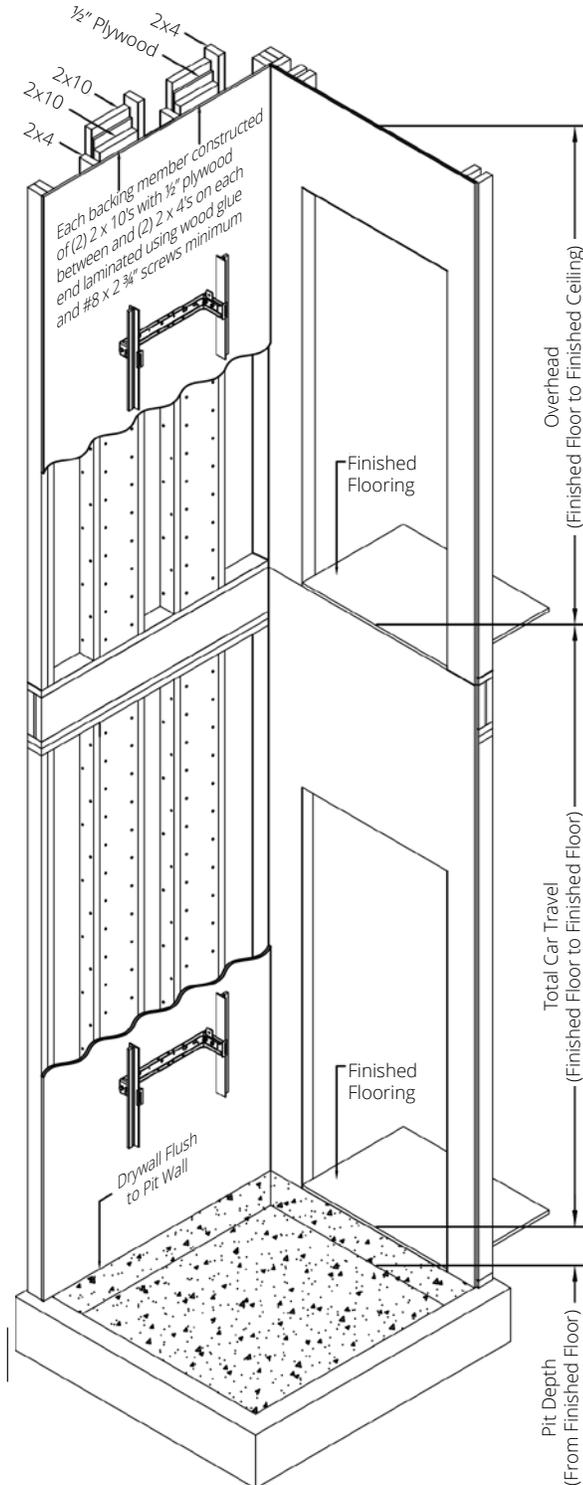
Each backing member constructed of (2) 2 x 10's with 1/2" plywood between and (2) 2 x 4's on each end laminated using wood glue and #8 x 2 3/4" screws, 2 per row minimum, spaced on 6" vertical centers.

Installing 1/2" plywood behind the drywall will improve the sound deadening and strengthen the hoistway.

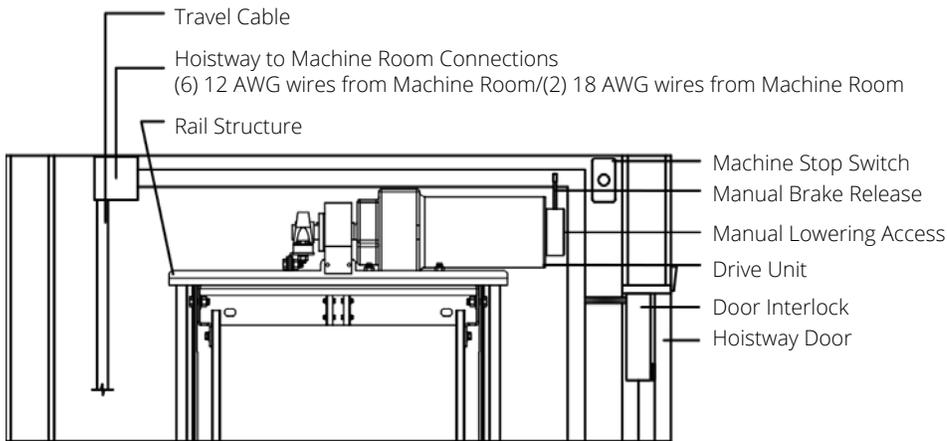
The specified loads are based on the worst case load condition of 1,000 lb. capacity, 925 lb. car and frame weight and a 60" cantilever car.

The assumptions made relative to the standard backing arrangement are a maximum span of 10', a minimum wood modulus of elasticity of  $1.95 \times 10^6$  psi (Douglas Fir) and stiffening factor from the elevator's rail structure based on the bracket spacing.

If the backer span exceeds 10' or if the backing construction and/or materials are not as specified, please consult a structural engineer.

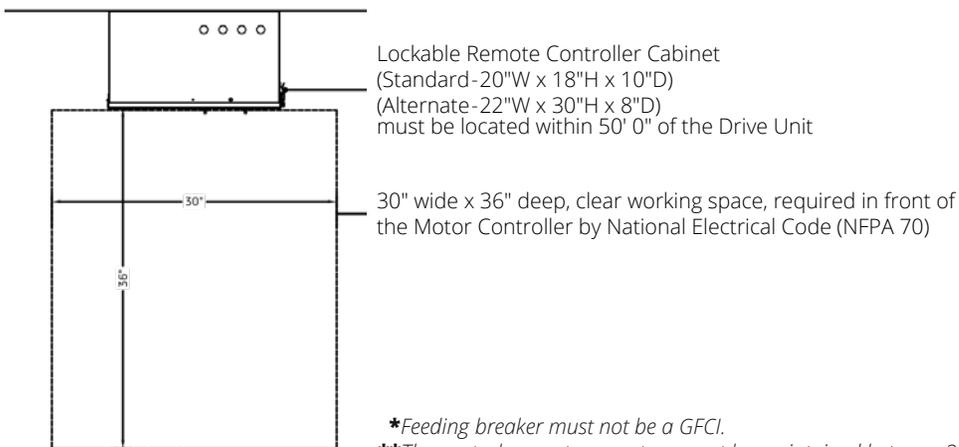
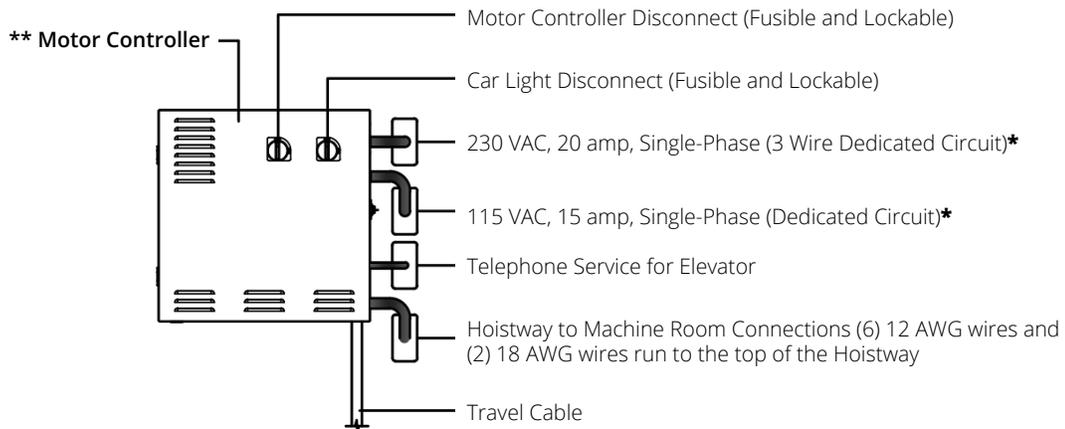


# INLINE GEAR DRIVE REMOTE CONTROLLER



**NOTES:**

- 1) The minimum overhead clearance as measured from the top of the upper landing sill to the bottom of the shaft ceiling is 8' 0" for a standard 7' 0" car.
- 2) This layout is shown for manual lowering access at the top right of the view. The drive unit can be mounted opposite to accommodate access.

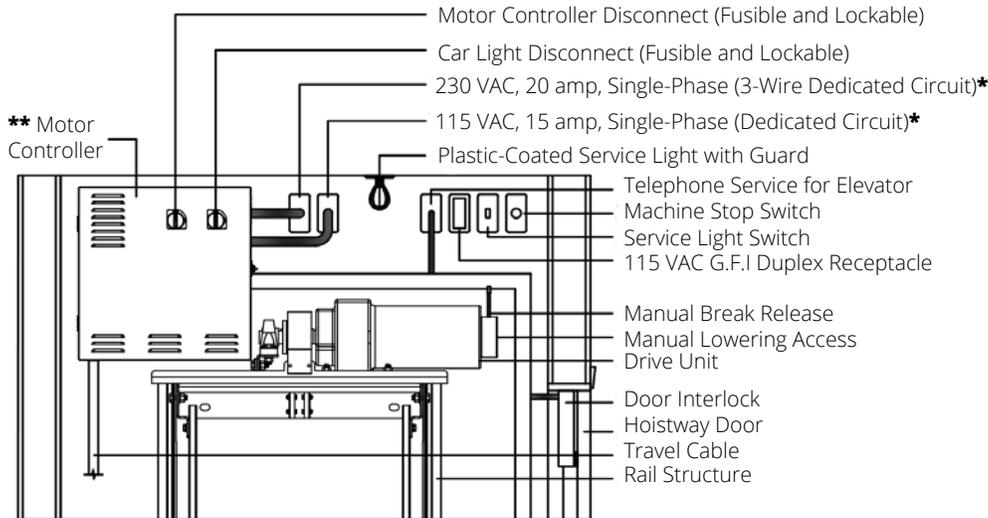


\*Feeding breaker must not be a GFCI.

\*\*The control space temperature must be maintained between 32°F and 80°F.

# INLINE GEAR DRIVE MRL CONTROLLER & ACCESS HATCH

## MRL CONTROLLER



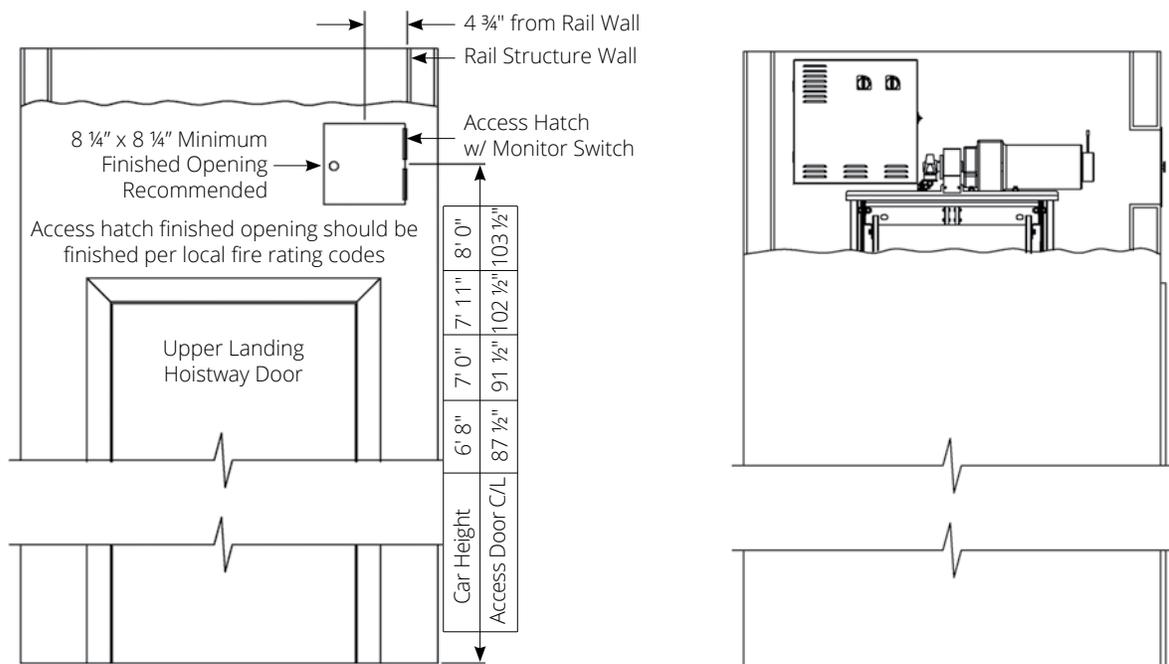
### NOTES:

- 1) The minimum overhead clearance as measured from the top of the upper landing sill to the bottom of the shaft ceiling is 9'0" for a standard 7'0" car.
- 2) This layout is shown for manual lowering access at the top right of the view. The drive unit can be mounted opposite to accommodate access.
- 3) The MRL Controller option is not available in all jurisdictions, please contact your local Symmetry Elevating Solutions representative or local authority to confirm acceptance.

\*Feeding breaker must not be a GFCI.

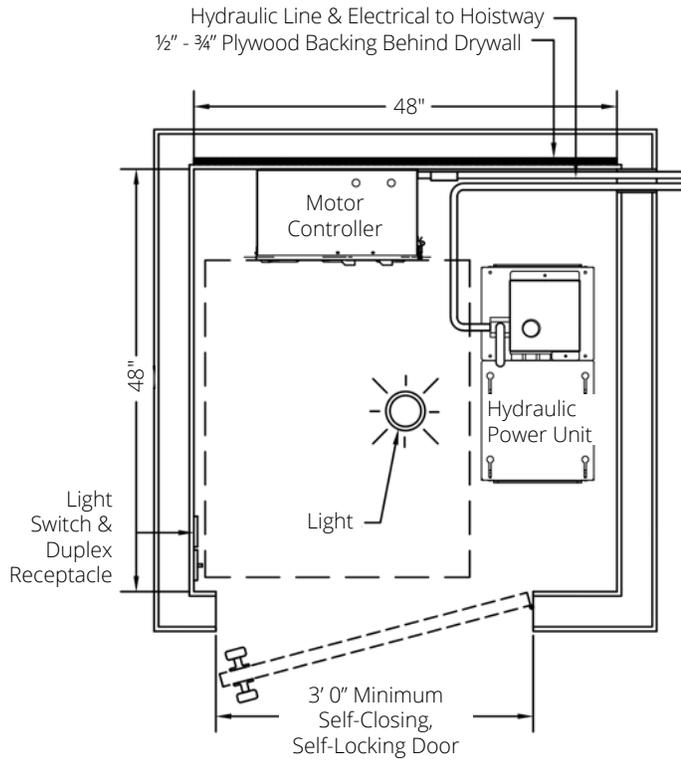
\*\*The control space temperature must be maintained between 32°F and 80°F.

## ACCESS HATCH DETAIL

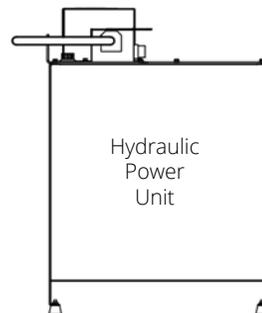
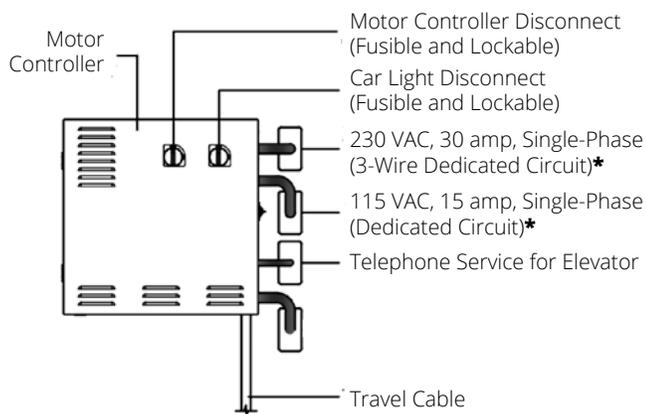
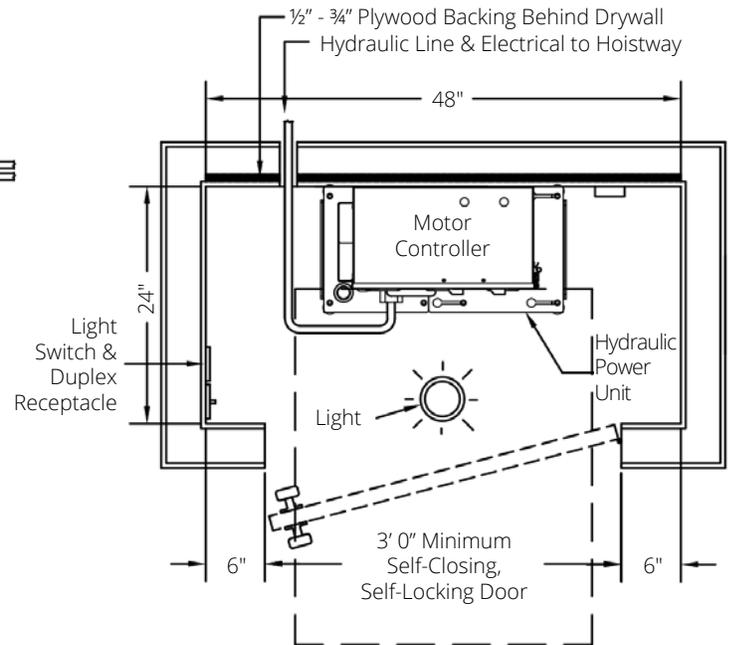


# HYDRAULIC DRIVE MACHINE ROOMS

## STANDARD MACHINE ROOM



## COMPACT MACHINE ROOM



Motor Controller  
Standard-20" W x 18" H x 10"D  
Alternate-22" W x 30" H x 8"D

Hydraulic Power Unit  
24 1/4"W x 33 1/2"H x 12 3/4"D

### NOTES:

- 1) The elevator machine room location and layout must meet the code requirements defined by the local authority having jurisdiction.
- 2) 30" wide x 36" deep clear working space in front of the motor controller as required by National Electrical Code (NFPA 70).
- 3) The light switch must be located on the strike side of the machine room door.
- 4) The hydraulic power unit must be located within 40' 0" of the cylinder.
- 5) The machine room must be free of all equipment not related to the elevator.
- 6) The machine/control room temperature must be maintained between 50°F and 80°F.

\*Feeding breaker must not be a GFCI.

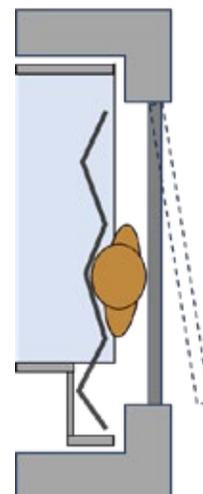
# RESIDENTIAL ELEVATOR SAFETY

## HOISTWAY / CAR DOOR SPACE

### SECURING THE SPACE BETWEEN HOISTWAY DOOR AND CAR DOOR / GATE

In 2016, the Safety Code for Elevators and Escalators (ASME A17.1) was updated adopting the new ¾" x 4" rule. This rule was amended after it was determined that utilizing a standard residential hoistway door, installed under ASME A17.1 (2013 and prior), allows a space between the hoistway door and car gate/door large enough for a child to hide, thus subjecting the child to a potentially unsafe scenario which could result in serious injury if said space is not protected by some other means.

Your Symmetry Elevator is designed to **fully comply** with this most recent version of the national code.



### SYMMETRY RESIDENTIAL ELEVATORS HAVE ADDED SECURITY FEATURES TO PROTECT THIS SPACE

All Symmetry Residential Elevators are provided with a standard, enhanced gate/bypass monitor that continuously monitors the elevator control system to detect a scenario where someone may enter the space between the hoistway and the car, without ever entering the car. The enhanced gate/bypass monitor will keep the elevator from leaving the landing should it detect the aforementioned event.

### FINAL HOISTWAY DOOR LOCATION FOLLOWING CONTRACTOR INSTALLATION IS KEY

Your local jurisdiction may not require the hoistway door installation, performed by your local contractor, to meet the latest requirements; however, we highly recommend that all elevator installations comply with the ASME A17.1 (2016 and newer) code, or more stringent version, in regard to this gap once the installation is complete and the elevator inspected. While this is highly recommended, but out of our control, should you live in a jurisdiction that still enforces the ASME A17.1 (2013 and prior) code, allowing for a larger gap, your elevator will also be equipped with a light curtain that projects a crisscross pattern of 94 beams to keep the elevator from leaving the landing should an obstruction be detected. Your safety is our number one priority, thus rest assured that regardless of the version of Elevator and Escalator Safety Code enforced in your jurisdiction, your Symmetry Residential Elevator safely protects the space between the hoistway door and car gate/door.

# FEATURES AND OPTIONS

## DOORS AND GATES

### THREE PANEL CAR DOOR



Our exclusive 3-Panel Car Door is one of the best residential elevator car doors on the market. Shown in Black with vision panels.

### AUTOMATIC DOUBLE LANDING DOOR



Automatic Double Landing Doors combine elegance and efficiency with features like quick installation, space-saving design and premium finishes.

Standard Features	
<b>Manual Car Door Operation</b>	The trailing panel of the car door measures 2" from edge of the car sill and is designed to fit within requirements of the ¾" x 4" rule, with maximum running clearance and maximum hoistway door setback of ¾"
<b>Height of Opening</b>	7' 0" or 7' 11"
Options	
<b>Light Curtain</b>	Secondary protective device if installed under ASME A17.1 (2013 and prior); optional if installed under ASME A17.1 (2016 and newer)
<b>Door Operation</b>	Power Car Door Operation
<b>Height of Opening</b>	6' 8", 7' 11"
<b>Car Door Opening</b>	33" is standard, 36" is an optional feature
<b>Finish</b>	Gothic Graphite Black, Glass options. Other color are available for solid panels

Standard Features	
<b>Automatic Car Door Operation</b>	Clear panels Gothic Black (STD) Automatic obstruction detection.
<b>Height of Opening</b>	82 ¾"
Options	
<b>Light Curtain</b>	Secondary protective device if installed under ASME A17.1 (2013 and prior); optional if installed under ASME A17.1 (2016 and newer)
<b>Door Operation</b>	Power Car Door Operation
<b>Car Door Opening</b>	32" and 36" is standard
<b>Finish</b>	Gothic Graphite Black, Glass options. Other color are available for solid panels

# FEATURES AND OPTIONS

## DOORS AND GATES

### TWO SPEED LANDING AND CAR DOOR



Crafted with strong construction and available in a wide array of finishes, our Two Speed Landing and Car Door offers exceptional durability and aesthetic flexibility.

Standard Features	
<b>Safety</b>	Light Curtain
<b>Open Type</b>	Power-operated
<b>Clear Door Opening Width</b>	35 ½"
<b>Clear Heights</b>	78 ¾" or standard 90 ⅞"
<b>Standard Finish</b>	Anthracite Black Brushed Stainless Steel
<b>Overhead Requirements</b>	Landing & Car Doors Minimum overhead 98 ¾", 110 ¾"
Options	
<b>Glass Doors</b>	Available with clear safety glass Standard finish for framed glass is Black
<b>Door Finish</b>	Available in Brushed Stainless Steel or Satin Stainless Steel Collection

### THREE SPEED DOORS



Automatic commercial style doors optimize ease of use for passengers. Car door only or car and landing door packages available. Three Speed Car Door shown in Brushed Stainless Steel.

Standard Features	
<b>Safety</b>	Light Curtain
<b>Open Type</b>	Power-operated
<b>Clear Door Opening Width</b>	31 ½" or 35 ½"
<b>Clear Heights</b>	78 ¾"
<b>Standard Finish</b>	Beige
<b>Overhead Requirements</b>	Landing & Car Door/ Car Door only Minimum overhead 101"
Options	
<b>Glass Doors</b>	Available with clear safety glass Standard finish for framed glass is Black
<b>Door Finish</b>	Available in Brushed Stainless or powder coated steel

# FEATURES AND OPTIONS

## DOORS AND GATES

### ACCORDION DOOR



The Accordion Door is one of our most economical door choices. Shown in Antique White.

Standard Features	
<b>Door Finish</b>	Laminate Panels, available in Light Oak, Birch or White
<b>Height of Opening</b>	7' 0" or 7' 11"
<b>Hinges</b>	Mechanical Locking Hinging: Meets the deflection requirements of ASME A17.1 (2016 and newer)*
Options	
<b>Light Curtain</b>	Standard as secondary protective device if installed under ASME A17.1 (2013 and prior); optional if installed under ASME A17.1 (2016 and newer)
<b>Opening Options</b>	Automatic Car Door Operator
<b>Panel Options</b>	<ul style="list-style-type: none"> <li>- Laminate panels in Dark Oak, Chalk, Antique White, Cherry, Walnut or Black</li> <li>- Unfinished or finished matching hardwood veneer</li> <li>- Clear or Bronze acrylic</li> <li>- Solid or perforated aluminum</li> </ul>
<b>Height of Opening</b>	From 6' 8" up to 8' 0"
<b>Sizes</b>	Custom sizes available

**NOTE:**  
 Accordion doors will have Bronze hardware except on White, Chalk or Antique White doors. Clear acrylic accordion doors will typically have Clear hardware when Stainless Steel or Black fixtures are provided.

### ENTERPRISE GATE



The Enterprise Collapsible Gate is always designed and manufactured to comply with current codes. Shown in Black.

Standard Features	
<b>Door Operation</b>	Nylon "Quiet Glide" wheels for smooth operation when opening and closing gate
<b>Handles</b>	Low profile handle design
<b>Size</b>	Rejects a ball 3" in diameter
<b>Attachments</b>	Every vertical member guided at the bottom, every third vertical member guided at the top
<b>Standard Finish</b>	Black
Options	
<b>Light Curtain</b>	Standard as secondary protective device if installed under ASME A17.1 (2013 and prior); optional if installed under ASME A17.1 (2016 and newer)
<b>Car Gates</b>	Available in Brushed Stainless Steel or powder-coated steel

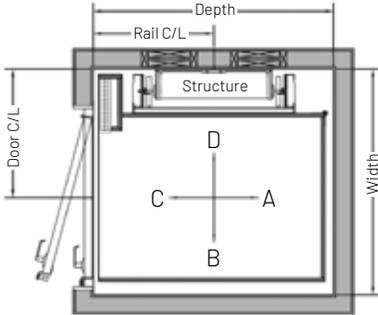
\*ASME A17.1 (2016 and newer) installations require a 1/4" maximum hoistway door setback.

# SIZES & DIMENSIONS

## SINGLE OPENING

ALL HOISTWAY DIMENSIONS REFERENCE INTERIOR DIMENSIONS — FINISHED WALL TO FINISHED WALL

Typical Hoistway Dimensions - Single Side Opening Rail Left, Right-Hand Door (shown) | Rail Right, Left-Hand Door (opposite)

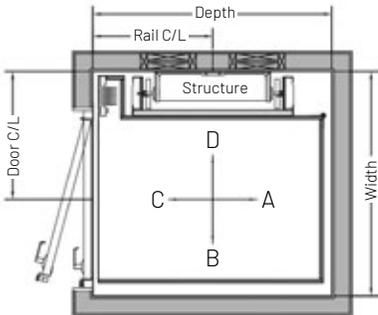


Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
<b>Three Panel Cabin Doors [A]</b>	36 x 48	52"	55"	31"	30 1/4"	33"
	36 x 60	52"	67"	33 1/2"	30 1/4"	33"
	40 x 54	54 1/2"	61"	32"	32 3/4"	33" [3]

\*Add 3 1/2" to shaft width if Automatic Double Landing Doors.

[A] Available for Asterix and Dream Cab.

[3] 36" clear opening available (door centerlines may change).



Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
<b>Accordion or Collapsible [2] [A]</b>	36 x 48	50 1/2"	54 1/4"	27 1/2"	28 3/4"	33 1/2"
	36 x 60	50 1/2"	66 1/4"	33 1/2"	28 3/4"	33 1/2"
	40 x 54	54 1/2"	60 1/4"	32"	32 3/4"	33 1/2" [3]

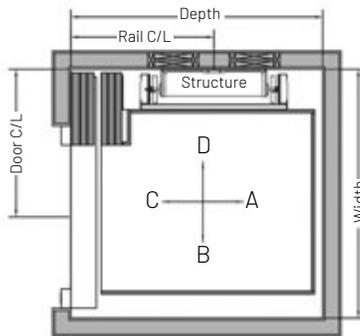
\*Add 3 1/2" to shaft width if Automatic Double Landing Doors.

[A] Available for Asterix and Dream Cab.

[2] Collapsible gates will have a clear opening approximately 1" less shown.

[3] 36" clear opening available (door centerlines may change).

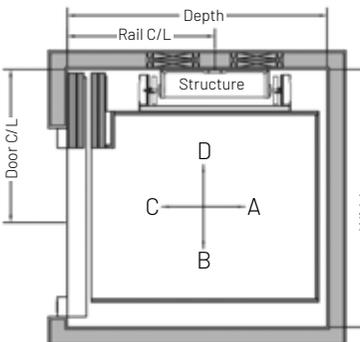
Typical Hoistway Dimensions - Single Side Opening Rail Left, Right-Hand Door (shown) | Rail Right, Left-Hand Door (opposite)



Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
<b>Three Speed Car Doors (Car &amp; Landing) [A]</b>	36 x 48	52 3/4"	63"	31 1/2"	30 1/2"	31 1/2" [4]
	36 x 60	52 3/4"	75"	42 1/2"	30 1/2"	31 1/2" [4]
	38 x 48	55 3/4"	63"	36 1/2"	31 1/2"	35 1/2"
	38 x 60	55 3/4"	75"	42"	31 1/2"	35 1/2"
	40 x 54	56 3/4"	69"	39 1/2"	32 1/2"	35 1/2"

[A] Available for Asterix and Dream Cab.

[4] Door centerlines shown with 2' 8" doors.



Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
<b>Two Speed Car Doors (Car &amp; Landing) [A]</b>	46 x 46	61 1/2"	60 1/2"	35 1/2"	39"	35 1/2"
	48 x 54	63 1/2"	68 1/2"	38"	41"	35 1/2"

[A] Available for Asterix and Dream Cab.

Door centerlines apply to 3' 0" doors, except where otherwise noted Car sizes over 15 ft<sup>2</sup> may require approval from the local authority having jurisdiction.

# SIZES & DIMENSIONS SINGLE OPENING

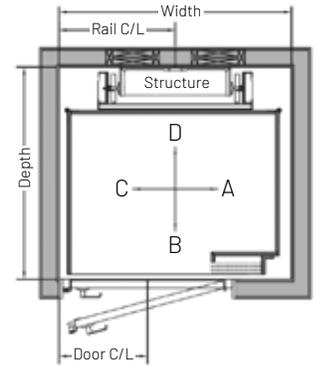
Typical Hoistway Dimensions - Single Front Opening Rail Front, Left-Hand Door (shown) or Rail Front, Right-Hand Door

Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Three Panel Cabin Door	36 x 48	55"	51 1/8"	27 1/2"	21 3/4"	33"
	36 x 60	67"	51 1/8"	33 1/2"	21 3/4"	33" [3]
	40 x 54	61"	55 1/8"	30 1/2"	21 3/4"	33" [3]
	48 x 36	52 1/4"	63 1/8"	22" [1]	21 3/4"	33"
	60 x 36	52 1/4"	75 1/8"	22" [1]	21 3/4"	33"
	54 x 40	52 1/4"	69 1/8"	24 1/2"	21 3/4"	33"

\*Add 3 1/2" to door centerline and shaft width if Automatic Double Landing Doors.

[1] Inline Gear Drive motor extends into the access hatch.

[3] 36" clear opening available (door centerlines may change).



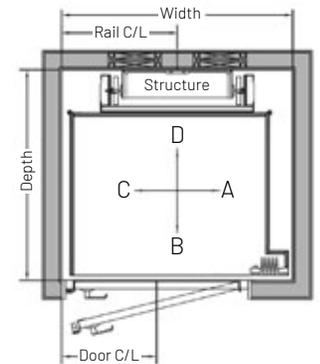
Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Accordion or Collapsible [2]	36 x 48	55"	50 1/4"	27 1/2"	21 3/4"	33 1/2" [3]
	36 x 60	67"	50 1/4"	33 1/2"	21 3/4"	33 1/2" [3]
	40 x 54	61"	54 1/4"	30 1/2"	21 3/4"	33 1/2" [3]
	48 x 36	48"	62 1/4"	22" [1]	23 1/4"	32 1/2"
	60 x 36	48"	74 1/4"	22" [1]	23 1/4"	32 1/2"
	54 x 40	48"	68 1/4"	24 1/2"	21 3/4"	32 1/2"

\*Add 3 1/2" to door centerline and shaft width if Automatic Double Landing Doors.

[1] Inline Gear Drive motor extends into the access hatch.

[2] Collapsible gates will have a clear opening approximately 1" less shown.

[3] 36" clear opening available (door centerlines may change).

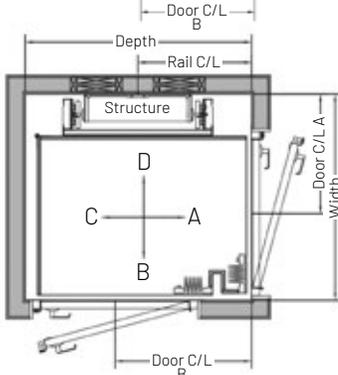
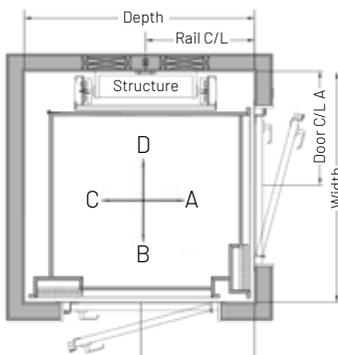
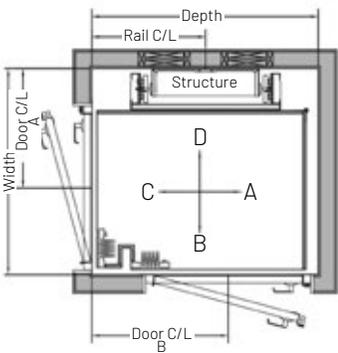
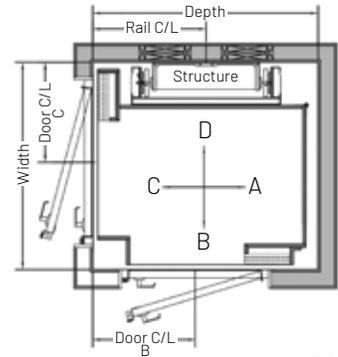


Door centerlines apply to 3' 0" doors, except where otherwise noted Car sizes over 15 ft<sup>2</sup> may require approval from the local authority having jurisdiction.

# TECHNICAL SPECIFICATIONS

## 90° OPENING

Typical Hoistway Dimensions - 90° Opening Rail Left, Right-Hand Door, Left-Hand Door or Rail Front, Left-Hand Door, Right-Hand Door



Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L C Side	Clear Opening C Side	Door C/L B Side	Clear Opening B Side
Three Panel Cabin Door	40 x 48	55 5/8"	55 5/8"	31"	30 5/8"	33"	25 1/8"	33"
	40 x 54	55 1/8"	61 5/8"	32"	30 5/8"	33"	31 1/8"	33" [3]

\*Automatic Double Landing Doors will not affect shaft dimensions.

[3] 36" clear opening available (door centerlines may change).

Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L C Side	Clear Opening C Side	Door C/L B Side	Clear Opening B Side
Accordion or Collapsible [2]	36 x 48	50 1/4"	54 3/4"	31"	24 1/4"	31"	26"	33 1/2"
	36 x 60	50 1/4"	66 3/4"	33 1/2"	24 1/4"	31"	38"	33 1/2" [3]
	40 x 54	54 1/4"	60 3/4"	32"	28 1/4"	33 1/2"	31 7/8"	33 1/2" [3]

\*Automatic Double Landing Doors will not fit on C wall with smaller cabs in this configuration. Contact customer service.

[2] Collapsible gates will have a clear opening approximately 1" less shown.

[3] 36" clear opening available (door centerlines may change).

Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L A Side	Clear Opening A Side	Door C/L B Side	Clear Opening B Side
Three Panel Cabin Door	44 x 48	59 1/8"	55 5/8"	28"	29 1/4"	33"	33 7/8"	33"
	44 x 54	59 1/8"	61 5/8"	31"	29 1/4"	33"	39 7/8"	33" [3]

\*Automatic Double Landing Doors will not affect shaft dimensions.

[3] 36" clear opening available (door centerlines may change).

Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L A Side	Clear Opening A Side	Door C/L B Side	Clear Opening B Side
Accordion or Collapsible [2]	36 x 48	50 1/4"	54 3/4"	27 1/2"	29 1/4"	28 1/2"	33"	33 1/2"
	36 x 60	50 1/4"	66 3/4"	33 1/2"	29 1/4"	28 1/2"	45"	33 1/2" [3]
	40 x 54	54 1/4"	60 3/4"	32"	29 1/4"	32 1/2"	39"	33 1/2" [3]

\*Automatic Double Landing Doors will not fit on A wall with smaller cabs in this configuration. Contact customer service.

[2] Collapsible gates will have a clear opening approximately 1" less shown.

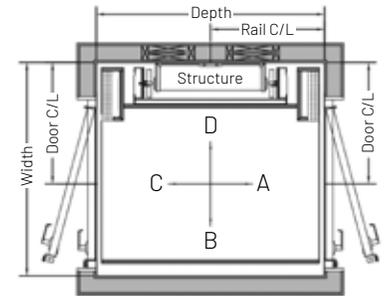
[3] 36" clear opening available (door centerlines may change).

Door centerlines apply to 3' 0" doors, except where otherwise noted Car sizes over 15 ft<sup>2</sup> may require approval from the local authority having jurisdiction.

# SIZES AND DIMENSIONS OPPOSITE OPENING

Typical Hoistway Dimensions - OPPOSITE OPENING Rail Left, Right-Hand Door, Left-Hand Door | Rail Right, Left-Hand Door, Right-Hand Door

Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Three Panel Cabin Door [A]	36 x 54	52"	61 ¾"	31"	30 ¼"	33"
	36 x 60	52"	67 ¾"	34"	30 ¼"	33"
	40 x 54	54 ½"	61 ¾"	31"	32 ¾"	33" [3]

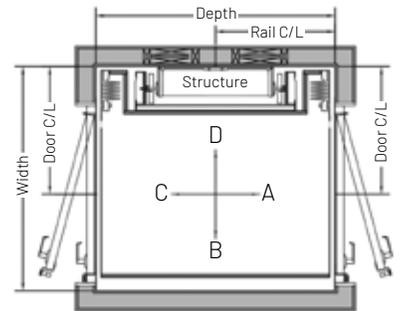


\*Add 3 ½" to shaft width if Automatic Double Landing Door are added.

[A] Available for Asterix and Dream Cab.

[3] 36" clear opening available (door centerlines may change).

Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Accordion or Collapsible [2] [A]	36 x 48	50 ½"	54"	27"	28 ¾"	33 ½"
	36 x 60	50 ½"	66"	33"	28 ¾"	33 ½"
	40 x 54	54 ½"	60"	30"	32 ¾"	33 ½" [3]



\*Add 3 ½" to shaft width if Automatic Double Landing Door are added.

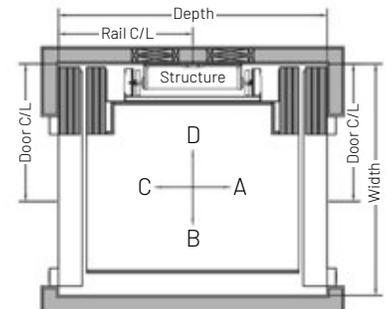
[A] Available for Asterix and Dream Cab.

[2] Collapsible gates will have a clear opening approximately 1" less shown.

[3] 36" clear opening available (door centerlines may change).

Typical Hoistway Dimensions - 90° Opening Rail Left, Right-Hand Door, Left-Hand Door or Rail Front, Left-Hand Door, Right-Hand Door

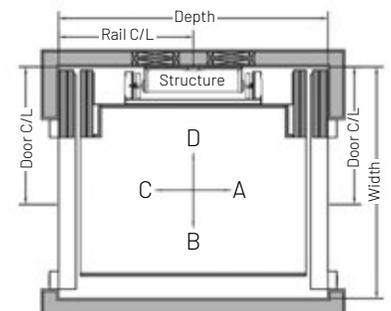
Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Three Speed Car Doors (Car & Landing) [A]	36 x 48	50 ½"	63"	32"	30 ¾"	31 ½" [4]
	36 x 60	50 ½"	75"	38"	30 ¾"	31 ½" [4]
	38 x 48	53 ½"	63"	32"	31 ¾"	35 ½"
	38 x 60	53 ½"	75"	38"	31 ¾"	35 ½"
	40 x 54	54 ½"	69"	35"	32 ¾"	35 ½"



[A] Available for Asterix and Dream Cab.

[4] Door centerlines shown with 2' 8" doors.

Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Two Speed Car Doors (Car & Landing) [A]	46 x 46	61 ½"	69 ¾"	34 ½"	39"	35 ½"
	48 x 54	63 ½"	77 ¾"	38"	41"	35 ½"



[A] Available for Asterix and Dream Cab.

Door centerlines apply to 3' 0" doors, except where otherwise noted Car sizes over 15 ft² may require approval from the local authority having jurisdiction.

# CUSTOMIZATION

## LANDING FRAMES

Symmetry Residential Elevator Lock / Frame Packages						
	Electromechanical Locking Device (EMDL)			Symmetry Locking Device (SLD)		Atlock or Other
	<i>Assembled Frame</i>	<i>Knock Down Frame</i>	<i>Integrated Hardware only</i>	<i>Assembled Frame</i>	<i>Knock Down Frame</i>	<i>Fire-Rated Door</i>
<b>Fire Rating</b>	N/A	N/A	N/A	N/A	N/A	1.5-Hour (B-Label)
<b>Standard Door Dimensions</b>	Built to Order	Build on Site	By Others	Built to Order	Build on Site	36" or 48" x 80"
<b>Slab Thickness</b>	1 3/4" or 1 3/8"	1 3/4" or 1 3/8"	N/A	1 3/4" or 1 3/8"	1 3/4" or 1 3/8"	1 3/4"
<b>Wall Thickness</b>	4 1/2" Standard (Up to 7")	4 1/2" or 7" Standard	N/A	4 1/2" Standard (Up to 7")	4 1/2" or 7" Standard	6"
<b>Handing</b>	Right or Left	Ambidextrous	Right or Left	Right or Left	Ambidextrous	Right or Left
<b>Default Material</b>	Red Oak	Poplar	Metal	Red Oak	Poplar	Metal
<b>Fin/Trim</b>	Nail Fin	Hardboard Trim	Optional	Nail Fin	Hardboard Trim	N/A
<b>Vision Panel</b>	N/A	N/A	N/A	N/A	N/A	Available
<b>Latch Guard</b>	Provided	Provided	Provided	N/A	N/A	Provided
<b>Hinge Prep</b>	Available	N/A	N/A	Available	N/A	Provided
<b>Delay Action Door Closer</b>	Available (Headed Frame Required)	N/A	N/A	Available (Headed Frame Required)	N/A	Available
<b>Spring Hinges</b>	Available	N/A	N/A	Available	N/A	Available
<b>Dummy Handle</b>	Available	Available	N/A	Available	Available	Available
<b>Operator Prep</b>	Headed Frame	Headed Frame	N/A	Headed Frame	Headed Frame	Available
<b>Roller Catch</b>	Recommended	Recommended	Recommended	Integrated	Integrated	N/A
<b>Hoistway Side Recessed Pull</b>	Recommended	Recommended	Recommended	Recommended	Recommended	Available at Extra Cost
<b>Finished Option</b>	Available	Available	N/A	Available	Available	N/A

### Symmetry Residential Elevator Lock Examples



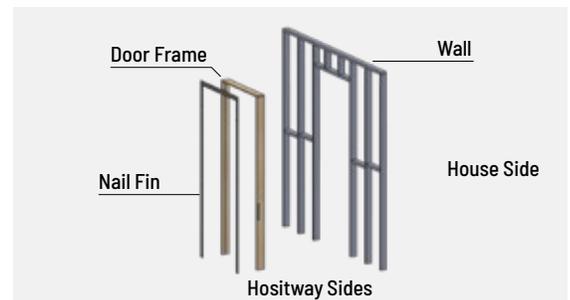
EMDL Standard Keeper plate



EMDL Integrated lock hardware



EMDL Lock



Knock down or assembled frame mounts flush to the interior of the hoistway

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**The courses also address:**

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