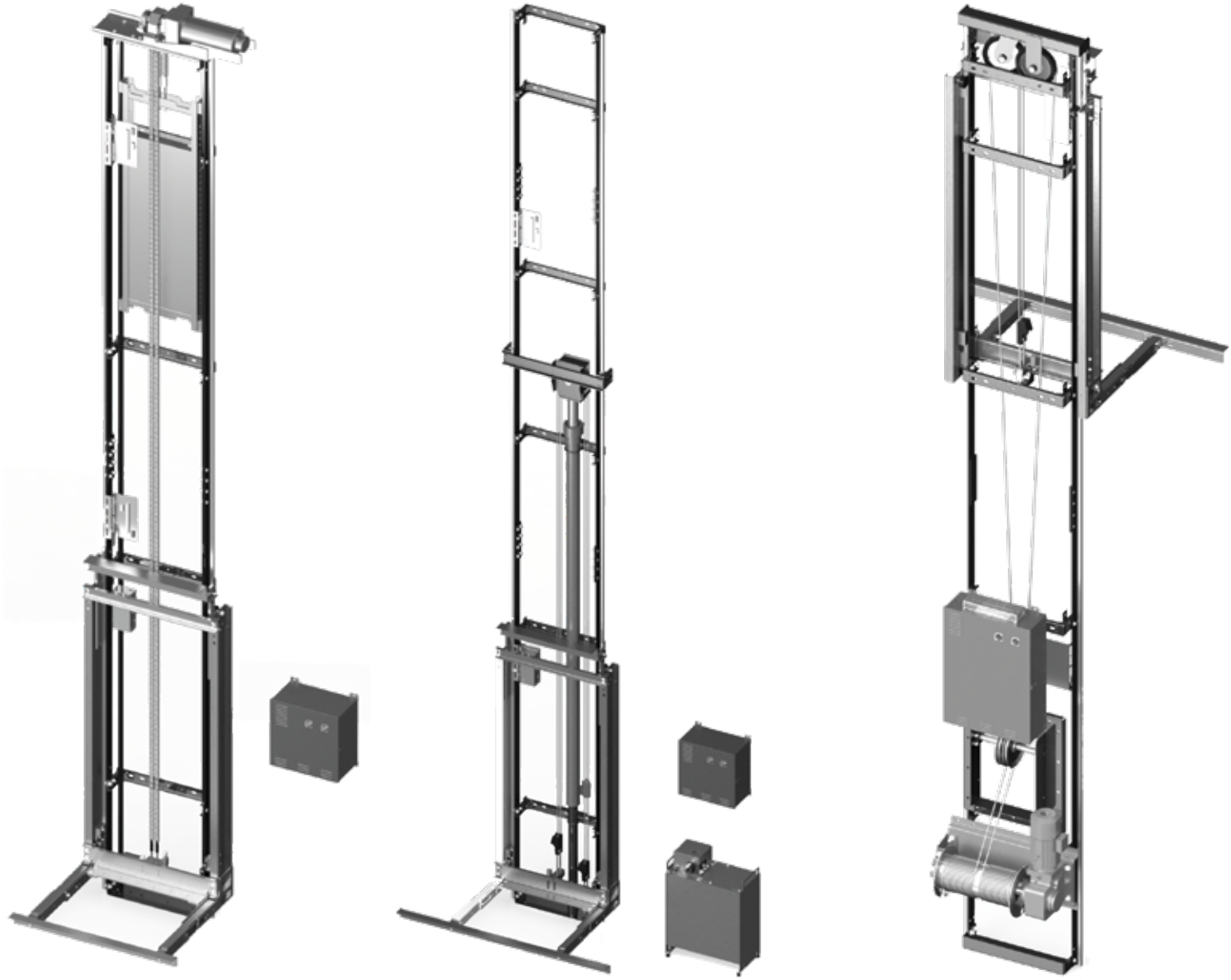
Cibes | symmetry

Home Elevator
DESIGN GUIDE

ASME A17.1, Section 5.3



WELCOME

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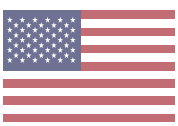
ABOUT

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 craftmanship 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.

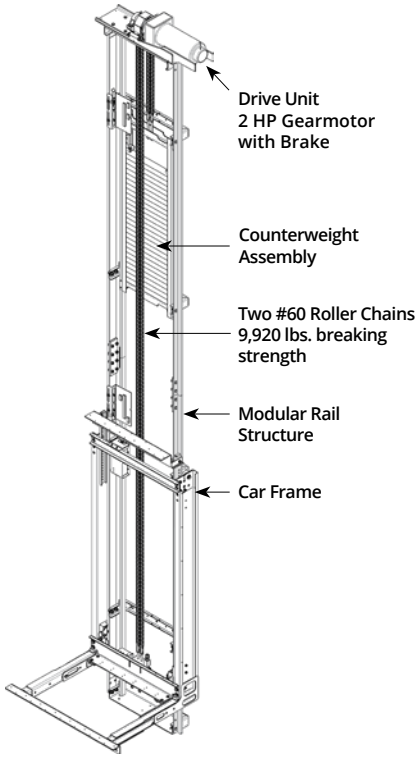


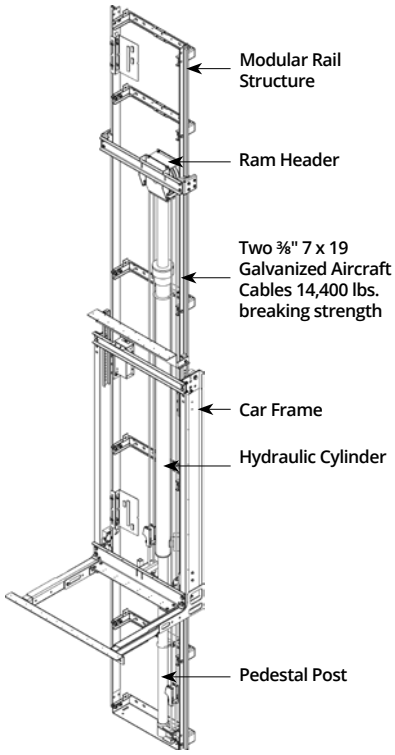
We provide beautifully crafted, expertly engineered accessibility related products across America. We market our residential elevators, home and commercial lifts, and low-rise commercial elevators through an exclusive network of carefully chosen Cibes Symmetry Partners.

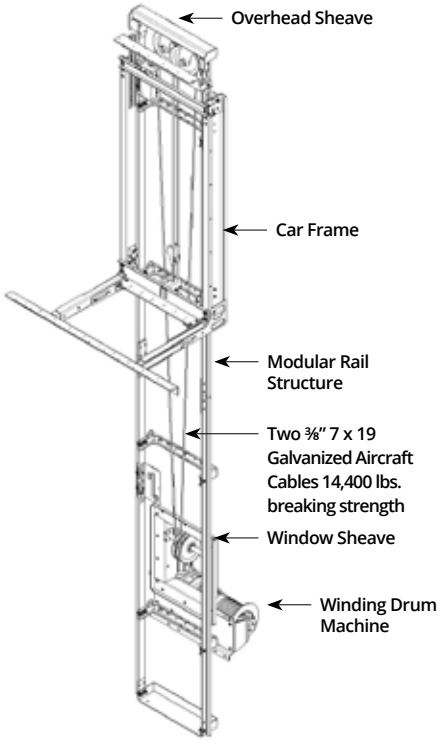
Please note that this guide is for planning purposes only, applies exclusively to national code and should not be used for construction. ***Prior to construction, please contact your local Cibes Symmetry representative and request a job-specific set of plans to ensure that you obtain the accurate dimensions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

TECHNOLOGIES COMPARED







Inline Gear Drive	Hydraulic Drive	Winding Drum
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	Overhead: Minimum of 7′ 10″ (94″) with a 7′ 0″ interior car height
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	208/230 VAC, 60 Hz, 30 amp, single-phase power supply for motor controller
Two #60 roller chains (9,920 lbs. breaking strength)	Two ⅜″ 7 x 19 galvanized aircraft cables (14,400 lbs. breaking strength) with wedge rope shackles	Two ⅜″ 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 ¾″ reducer bushing & 3 HP submersed motor with 2-speed valve assembly	Inverter-controlled variable speed. Winding Drum Drive unit and 3 HP motor
Manual lowering device	Manual down valve for emergency lowering	Manual lowering device
Safety Features		
Slack chain safety device	Slack rope safety device	Slack rope safety device
Two upper and one lower final limits & Machine stop switch	Line rupture valve	Two upper and one lower final limits

TECHNICAL SPECIFICATIONS

COMMON SPECIFICATIONS

Standard Features	
Travel	Maximum of 50′ 0″ (minimum12″ between stops)
Speed	40 fpm
Rated Capacity	1,000 lbs.
Pit Depth	6 in minimum (8 preferred)
Stops	2
Opening	Single
Warranty	Three-year limited parts

Safety Features

- Motor controller supply disconnects (located in controller)
- Car light supply disconnects (located in controller)
- Pit stop switch
- Car-top stop switch
- In-car emergency stop switch and alarm
- Safety Switch for car gates/doors
- Battery backup emergency car lights and alarm
- Electro-mechanical hoistway door locking devices (doors by others)
- Enhanced gate bypass monitor
- Unauthorized hoistway entry detection

Controls

- Programmable Logic Controller (PLC)
- Non-selective collective automatic operation
- S.M.A.R.T. system (Self-Monitoring Alert Response Technology)
- Car Operating Panel (COP) with LED floor position indicator**§**
- Recessed phone box (phone jack included)**§**
- Hall stations with call button and LED floor position indicator**§**
- Automatic car lighting
- Single floor designated car homing
- Uninterruptible Power Supply (UPS) for car lowering and automatic car gate/door operation (if provided) in the event of a power failure.*****

Standard Car Features	
Car Size	Up to 15 ft²
Car Height	7′ 0″
Interior Walls and Ceiling	Birch or Red Oak flat veneer*****
Handrail/ Car Sill	Matching wood
Floor Finish	Unfinished plywood floor with sill set for ¾″ (Flooring by others)
Lighting	2 energy saving recessed LEDs with Black trim rings
Car Door Finish	Light Oak, Birch or White 7′ 0″ laminate

Equipment

- Modular 6 ¼ lb. T-rail structure
- Car frame assembly
- Power supply for motor controller (see each drive for details on page 3)
- 120 VAC, 60 Hz, 15 amp, single-phase power supply
- Code-compliant electrical disconnects included*****

Optional Features	
Stops	Up to 6 stops
Car Size	Up to 18 ft²******
Car Height	Customizable
Car Finish	Factory-finished Car
Interior Walls	Shaker, Recessed or Raise Panel Custom wood interiors
Ceiling	Flat or match walls
Fixtures	Polished or Blackened Stainless Steel Brushed, Polished or Oil-Rubbed Brass or Powder-coated Steel
COP	With or without key switch or Integrated keypad phone
Hall Stations	With or without key switch and position indicator
Buffer Springs	Where required Minimum of 7 ⅛″ pit depth
Rated Capacity	750 lbs.
Car Entrance Safety System	Light curtain monitoring car entrance
Door Locks	Symmetry Locking Device (SLD)
Warranty	Extended warranties available

Car Gate / Door Options

- Symmetry Safety 3-Panel car door*****
- Two or three speed car door or car and landing doors
- Enterprise collapsible gate
- Dark Oak, Chalk, Antique White, Cherry, Walnut or Black laminate accordion door
- Hardwood veneer accordion door
- Clear or Bronze acrylic panel accordion door
- Automatic car gate/door operator (not available on the Enterprise collapsible gate)
- 1½ hour fire-rated steel door [B-Label]

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 ⅛″.

› The hoistway must be constructed square and plumb within ⅛″ 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.

› Hydraulic or Winding Drum Drive

  ›› Provide a minimum overhead of 7′ 10″ for a 7′ 0″ interior car height.

› 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)

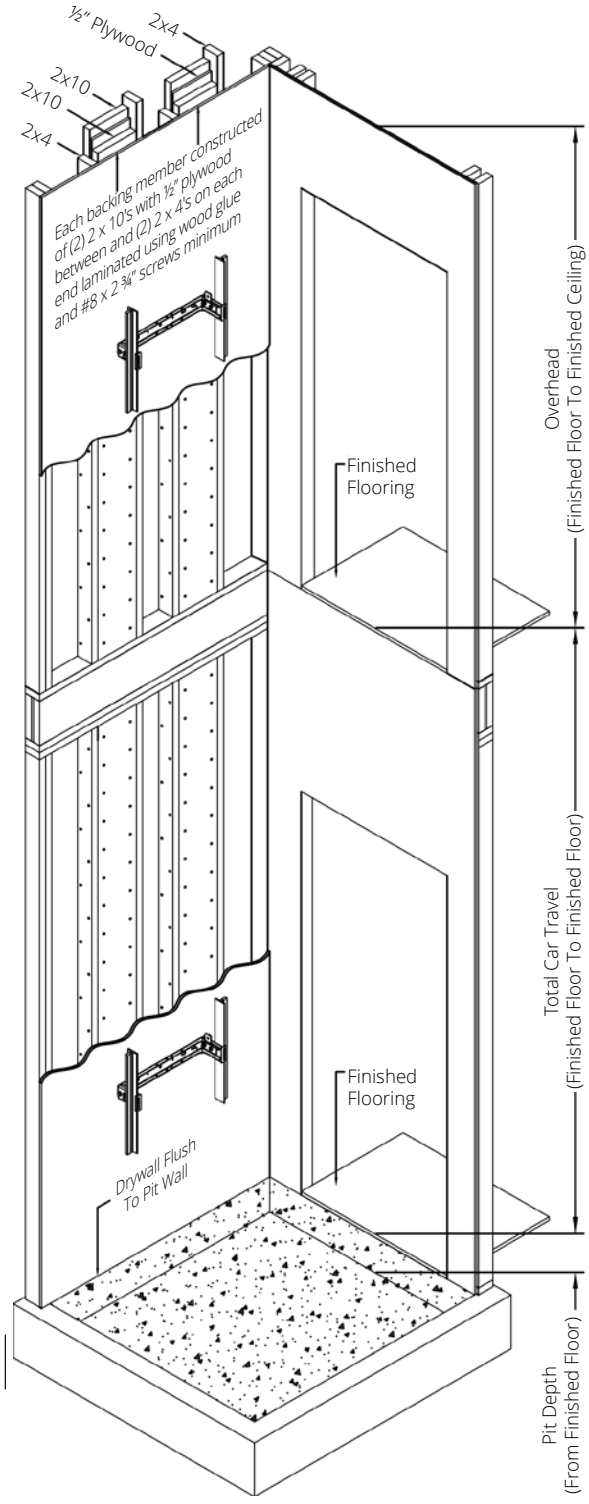
› **Winding Drum Drive**

  ›› Provide a framed window between the machine room and the hoistway for passing of the suspension means. (See page 10)

HOISTWAY PREPARATION

RAIL BACKING CONSTRUCTION

Each backing member constructed of (2) 2 x 10's with ½" plywood between and (2) 2 x 4's on each end laminated using wood glue and #8 x 2 ¾" screws, 2 per row minimum, spaced on 6" vertical centers.



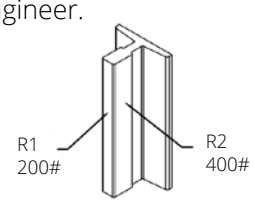
Please note that Winding Drum Drives with greater than 30' of travel require 2 x 12's in lieu of the 2 x 10's and the centerline spacing increases from 10" to 12".

Installing ½" plywood behind the drywall will improve the sound deadening and strengthen the hoistway.

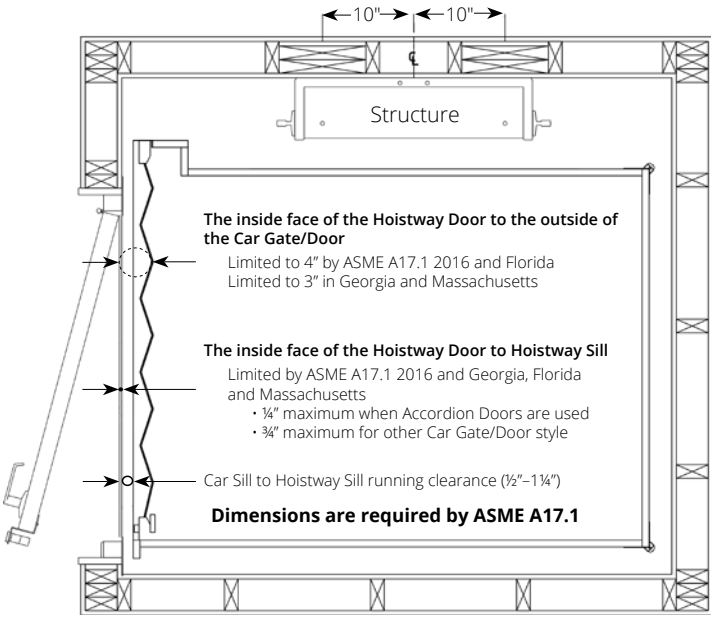
The specified loads are based on the worst case load condition of 1,000 lb. capacity, 925 lb. car and frame weight and a 60" cantilever car.

The assumptions made relative to the standard backing arrangement are a maximum span of 10', a minimum wood modulus of elasticity of 1.95 x 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.

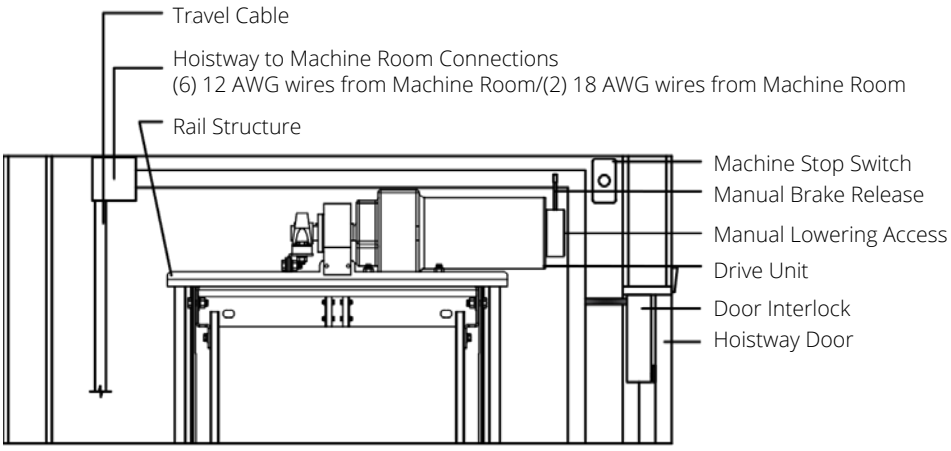


Static Individual Roller/Rail Reaction
(Two Rails Per System)



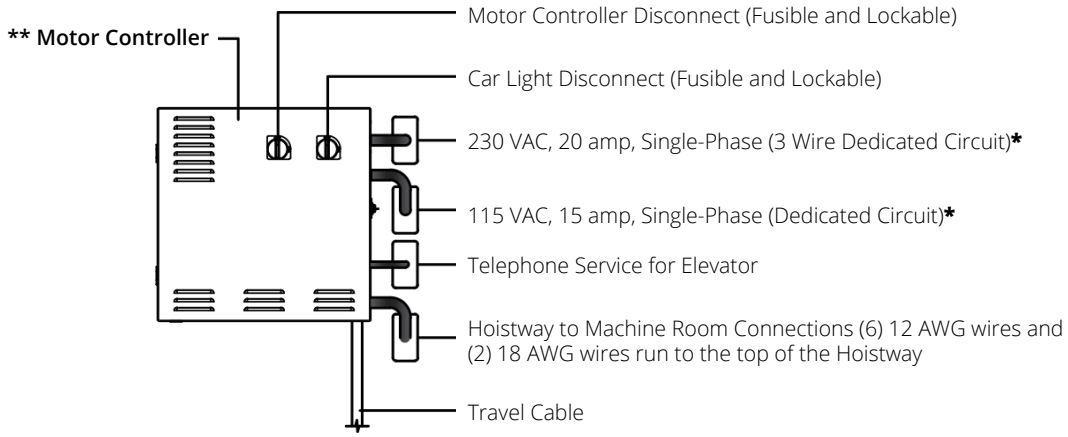
Typical Framework with Drywall Construction

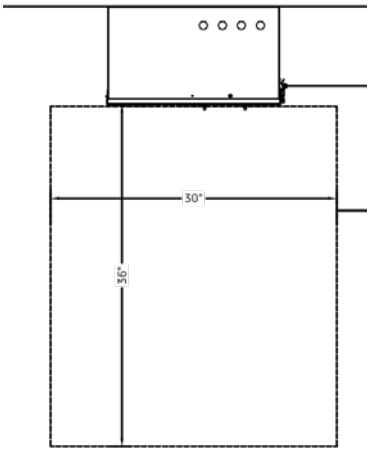
REMOTE CONTROLLER



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.





Lockable Remote Controller Cabinet
(Standard-20"W x 18"H x 10"D)
(Alternate-22"W x 30"H x 8"D)
must be located within 50' 0" of the Drive Unit

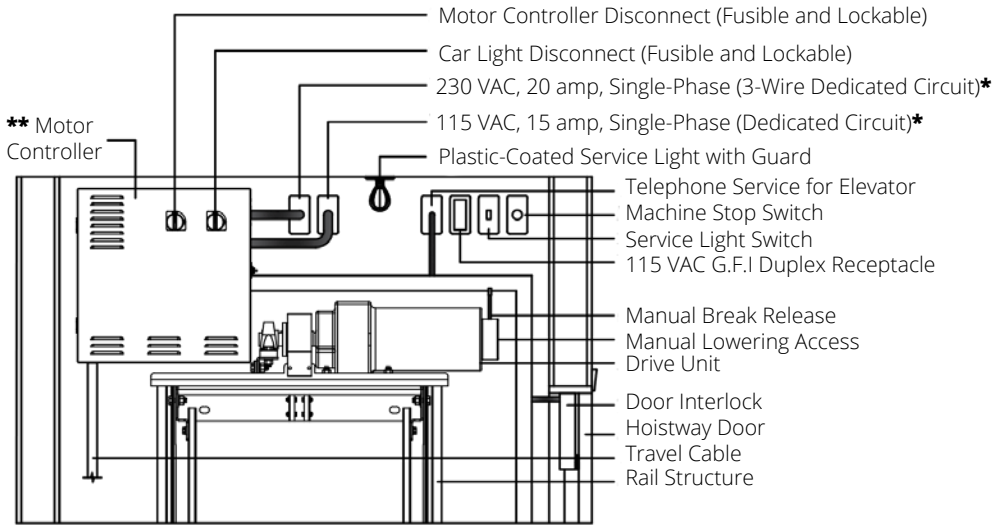
30" wide x 36" deep, clear working space, required in front of the Motor Controller by National Electrical Code (NFPA 70)

***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

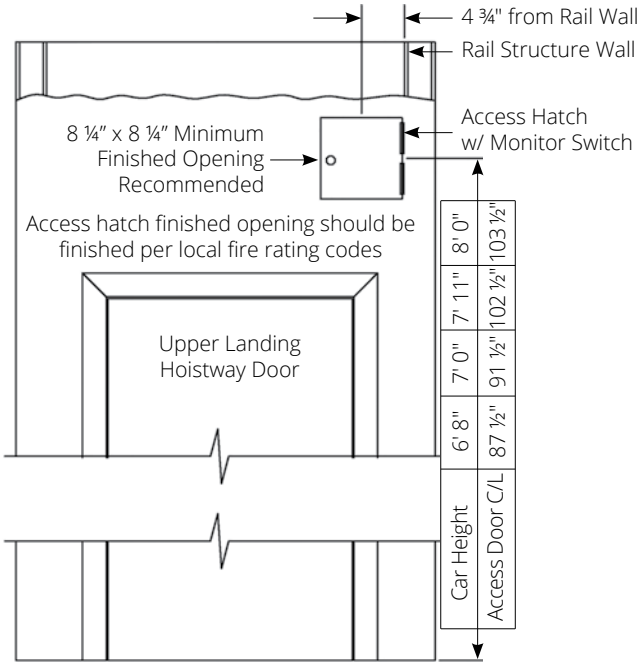


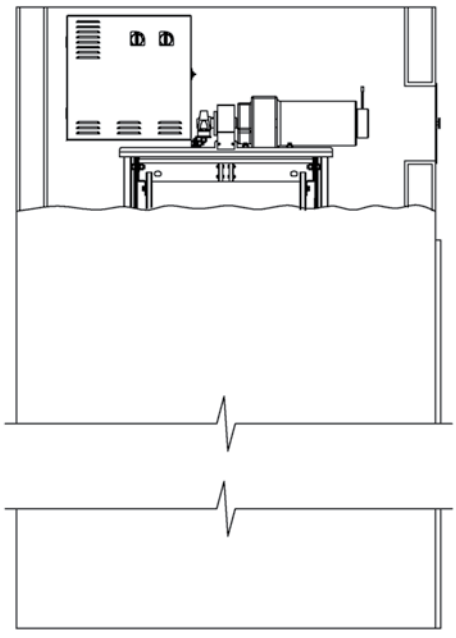
NOTES:

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.***

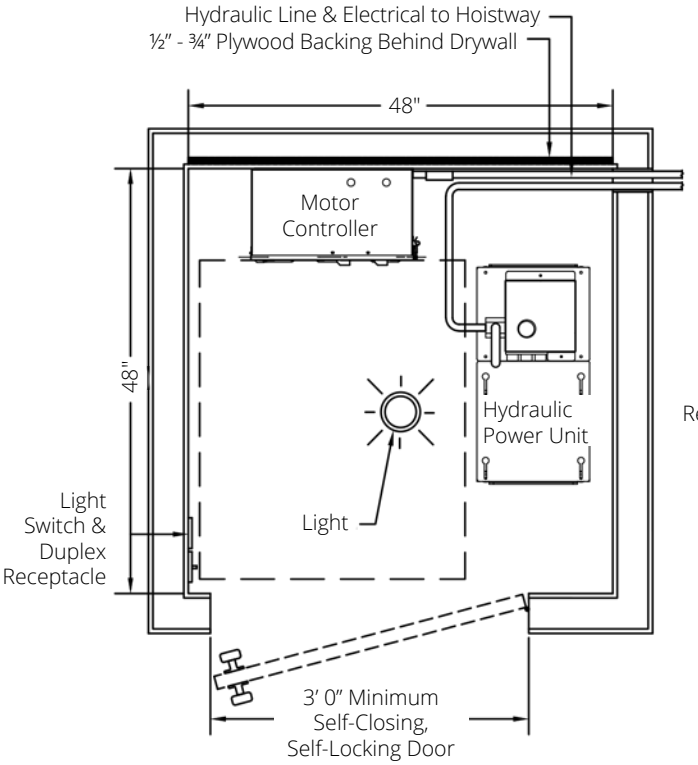
ACCESS HATCH DETAIL



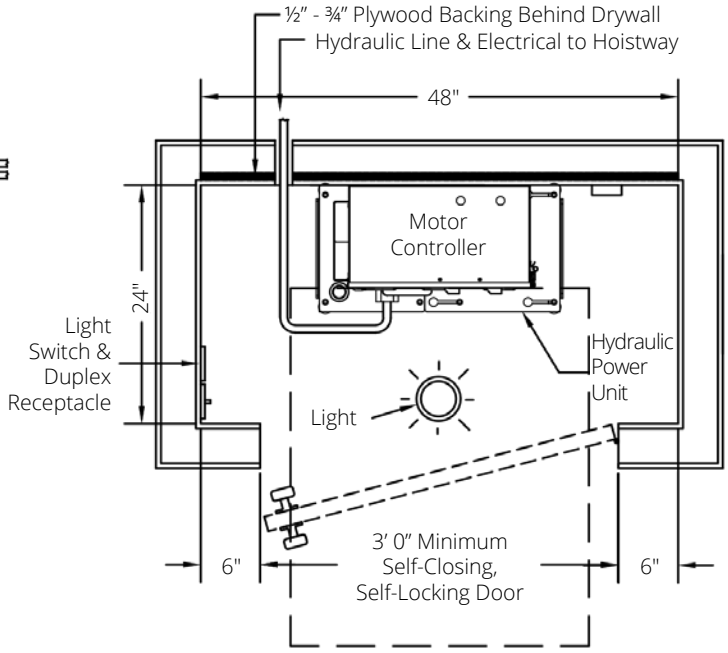


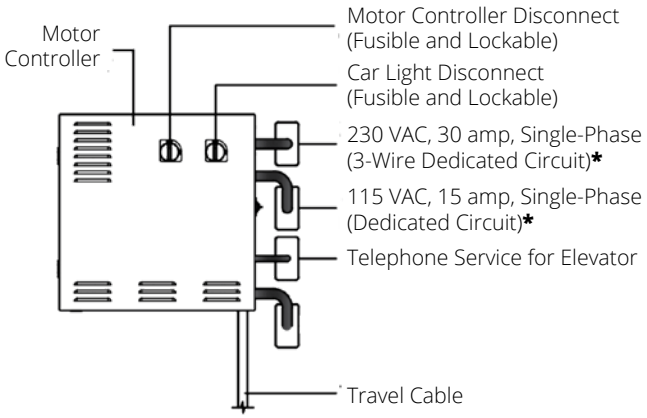
MACHINE ROOMS

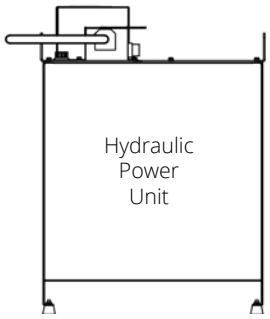
STANDARD MACHINE ROOM



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 ¼"W x 33 ½"H x 12 ¾"D

NOTES:

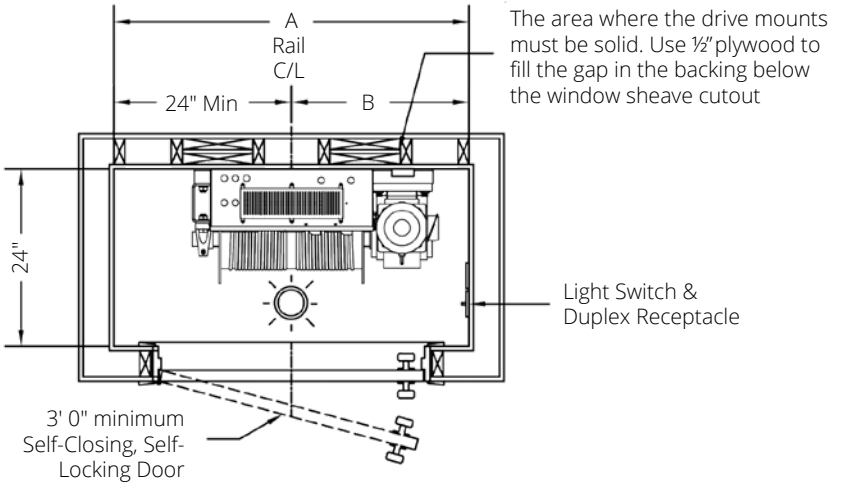
1) The elevator machine room location and layout must meet the code requirements defined by the local authority having jurisdiction.
2) 30" wide x 36" deep clear working space in front of the motor controller as required by National Electrical Code (NFPA 70).
3) The light switch must be located on the 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

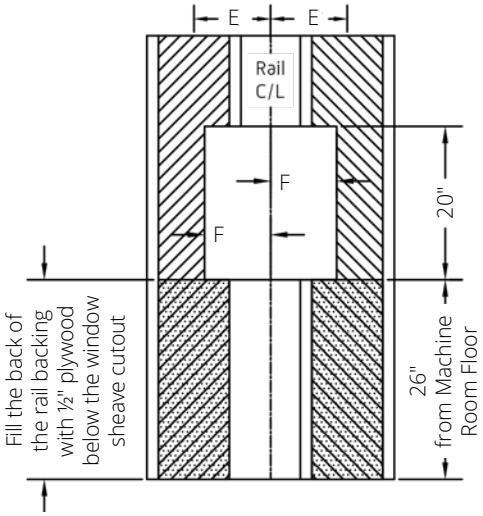
WINDING DRUM

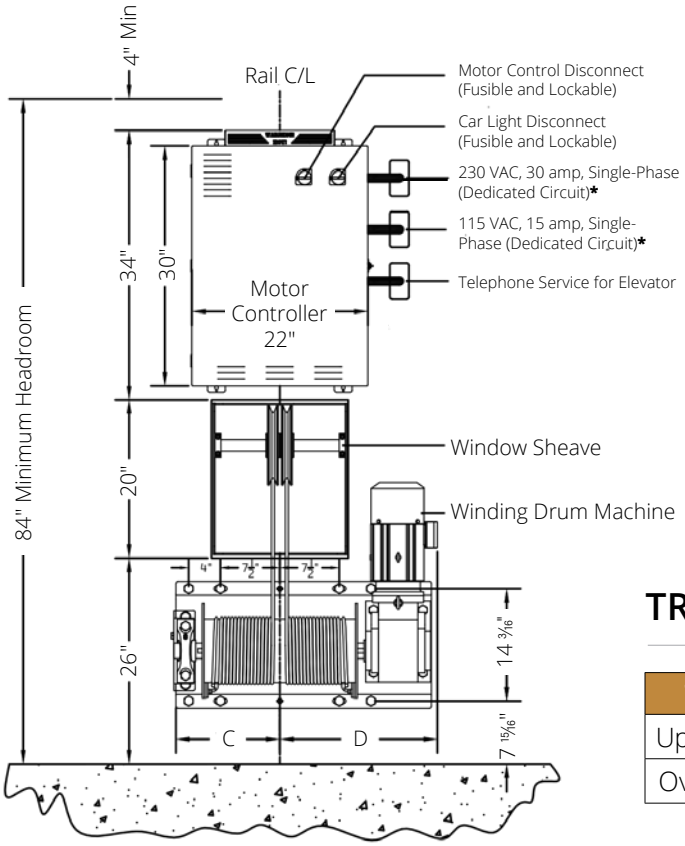
MACHINE ROOMS

MACHINE ROOM



WINDOW SHEAVE CUTOUT DETAIL





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3) The light switch must be located on the strike side of the machine room door.
4) The machine room must be free of all equipment not related to the elevator.
5) The machine/control room temperature must be maintained between 32°F and 80°F.

Feeding breaker must not be a GFCI

TRAVEL - SPECIFIC DIMENSIONS

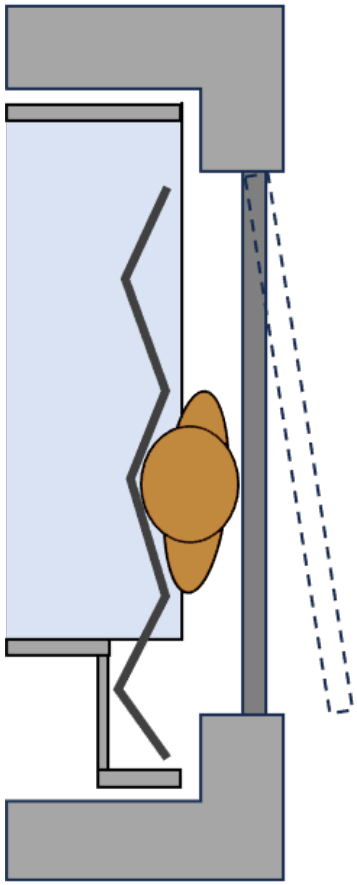
Travel	A	B	C	D	E	F
Up to 30' 0"	48" min	24" min	13 1/8"	19 7/8"	10"	8 5/8"
Over 30' 0"	60" min	36" min	19 5/16"	28 3/16"	12"	13"

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

SYMMETRY SAFETY 3-PANEL CAR DOOR

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

Standard Features	
Manual Car Door Operation	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"
Height of Opening	7' 0" or 7' 11"
Options	
Light Curtain	Standard as secondary protective device if installed under ASME A17.1 (2013 and prior); optional if installed under ASME A17.1 (2016 and newer)
Door Operation	Power Car Door Operation
Height of Opening	7' 11", custom heights available
Car Door Opening	33" is standard, 36" is an optional feature
Vision Panels	Available in Clear or Bronze Acrylic
Finish	Stainless Steel or powder-coated Steel

SYMMETRY SAFETY 3-PANEL CAR DOOR

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

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

DOORS AND GATES

ACCORDION DOOR

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

Standard Features	
Door Finish	Laminate Panels, available in Light Oak, Birch or White
Height of Opening	7′ 0″ or 7′ 11″
Hinges	Mechanical Locking Hinging: Meets the deflection requirements of ASME A17.1 (2016 and newer)*
Options	
Light Curtain	Standard as secondary protective device if installed under ASME A17.1 (2013 and prior); optional if installed under ASME A17.1 (2016 and newer)
Opening Options	Automatic Car Door Operator
Panel Options	- Laminate panels in Dark Oak, Chalk, Antique White, Cherry, Walnut or Black - Unfinished or finished matching hardwood veneer - Clear or Bronze acrylic - Solid or perforated aluminum
Height of Opening	From 6′ 8″ up to 8′ 0″
Sizes	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.

TWO OR 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	
Safety	Light Curtain
Open Type	Power-operated
Clear Door Opening Width	Three speed: 31 ½″ or 35 ½″ Two speed: 35 ½″
Clear Heights	- 78 ¾″ Standard - 84 ⅝″, 94 ½″ optional for Two speed only
Standard Finish	Beige
Overhead Requirements	
Two Speed Doors	Car & Landing Doors: Clear height + 19 ¼″ Car Door Only: Clear height + 18 ¼″
Three Speed Doors	Car and Landing Doors / Car Door only: 101″ (only available for clear height of 78 ¾″)
Options	
Glass Doors	Available with clear safety glass Standard finish for framed glass is Black
Door Finish	Available in Brushed Stainless or powder coated steel

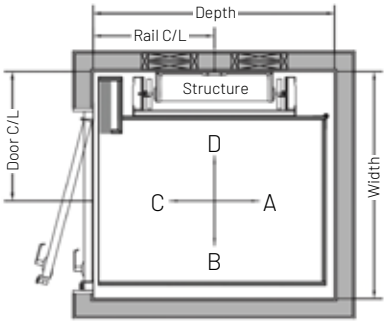
ASME A17.1 (2016 and newer) installations require a ¼″ maximum hoistway door setback

SIZES & DIMENSIONS

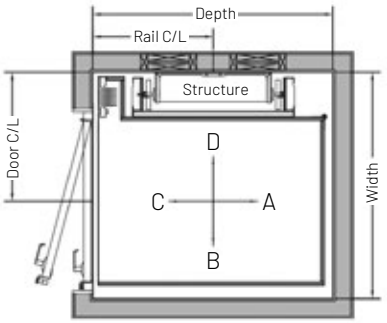
SINGLE OPENING

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

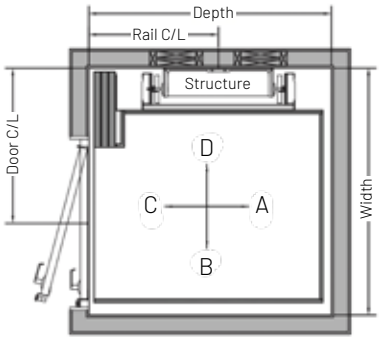
Typical Hoistway Dimensions - Single Side Opening Rail Left, Right-Hand Door (shown) | Rail Right, Left-Hand Door (opposite)



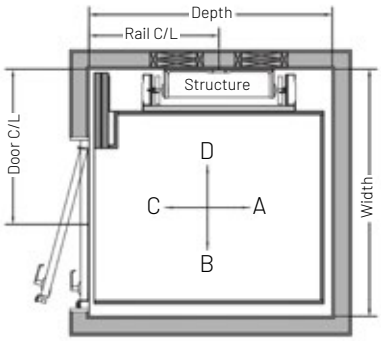
Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Symmetry Safety Three Panels	36 x 48	52″	55″	31″	30 ¼″	33″
	36 x 60	52″	67″	33 ½″	30 ¼″	33″
	40 x 54	54 ½″	61″	32″	32 ¾″	33″ [3]



Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Accordion or Collapsible [2]	36 x 48	50 ½″	54 ¼″	27 ½″	28 ¾″	33 ½″
	36 x 60	50 ½″	66 ¼″	33 ½″	28 ¾″	33 ½″
	40 x 54	54 ½″	60 ¼″	32″	32 ¾″	33 ½″ [3]



Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Three Speed Car Doors (Car only)	36 x 48	50 ½″	58 ¼″	31 ½″	30 ¾″	31 ½″ [4]
	36 x 60	50 ½″	70 ¼″	35″	30 ¾″	31 ½″ [4]
	38 x 48	53 ½″	58 ¼″	31 ½″	31 ¾″	35 ½″
	38 x 60	53 ½″	70 ¼″	35″	31 ¾″	35 ½″
	40 x 54	54 ½″	64 ¼″	32″	32 ¾″	35 ½″



Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Two Speed Car Doors (Car only)	44 x 48	59″	57 ½″	31″	37 ¼″	35 ½″
	44 x 54	59″	63 ½″	32″	37 ¼″	35 ½″

NOTE: Apply to all charts in this section

[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)

[4] Door centerlines shown with 2′ 8″ doors.

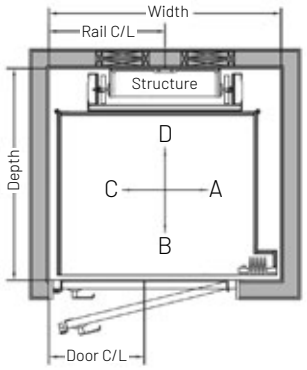
Door centerlines apply to 3′ 0″ doors, except where otherwise noted

Car sizes over 15 ft² may require approval from the local authority having jurisdiction

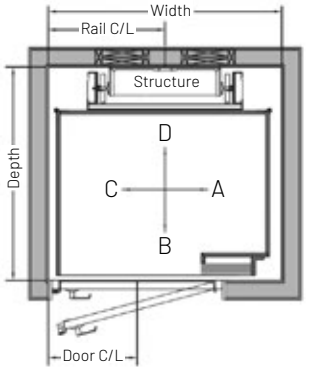
SINGLE OPENING

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
Symmetry Safety Three Panel	36 x 48	55″	51 ⅛″	27 ½″	21 ¾″	33″
	36 x 60	67″	51 ⅛″	33 ½″	21 ¾″	33″ [3]
	40 x 54	61″	55 ⅛″	30 ½″	21 ¾″	33″ [3]
	48 x 36	52 ¼″	63 ⅛″	22″ [1]	21 ¾″	33″
	60 x 36	52 ¼″	75 ⅛″	22″ [1]	21 ¾″	33″
	54 x 40	52 ¼″	69 ⅛″	24 ½″	21 ¾″	33″

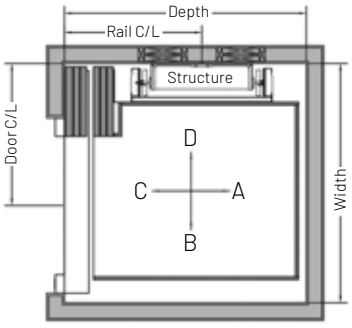


Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Accordion or Collapsible [2]	36 x 48	55″	50 ¼″	27 ½″	21 ¾″	33 ½″ [3]
	36 x 60	67″	50 ¼″	33 ½″	21 ¾″	33 ½″ [3]
	40 x 54	61″	54 ¼″	30 ½″	21 ¾″	33 ½″ [3]
	48 x 36	48″	62 ¼″	22″ [1]	23 ¼″	32 ½″
	60 x 36	48″	74 ¼″	22″ [1]	23 ¼″	32 ½″
	54 x 40	48″	68 ¼″	24 ½″	21 ¾″	32 ½″

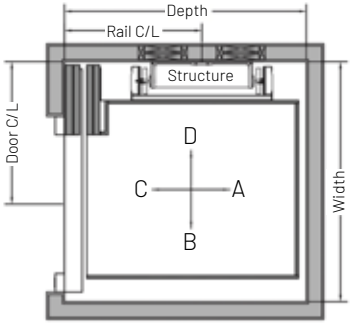


Typical Hoistway Dimensions - Single Side Opening Rail Left, Right-Hand Door (shown) | Rail Right, Left-Hand Door (opposite)

Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Three Speed Car Doors (Car & landing)	36 x 48	52 ¾″	63″	36 ½″	30 ½″	31 ½″ [4]
	36 x 60	52 ¾″	75″	42 ½″	30 ½″	31 ½″ [4]
	38 x 48	55 ¾″	63″	36 ½″	31 ½″	35 ½″
	36 x 60	55 ¾″	75″	42″	31 ½″	35 ½″
	40 x 54	56 ¾″	69″	39 ½″	32 ½″	35 ½″

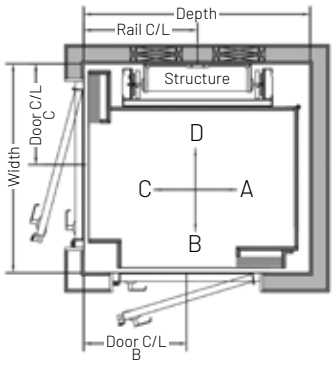


Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Two Speed Car Doors (Car & landing)	44 x 48	62″	62″	35 ½″	37 ¾″	35 ½″
	44 x 54	62″	68″	37″	37 ¾″	35 ½″

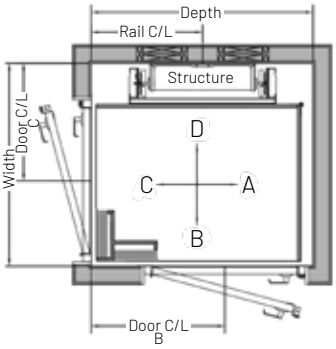


TECHNICAL SPECIFICATIONS
90° OPENING

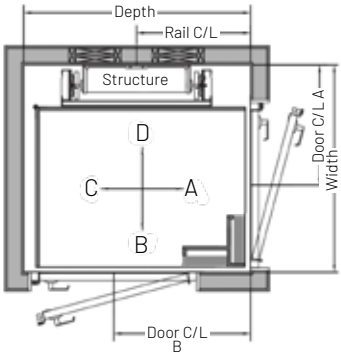
Typical Hoistway Dimensions - 90° Opening Rail Left, Right-Hand Door, Left-Hand Door or Rail Front, Left-Hand Door, Right-Hand Door



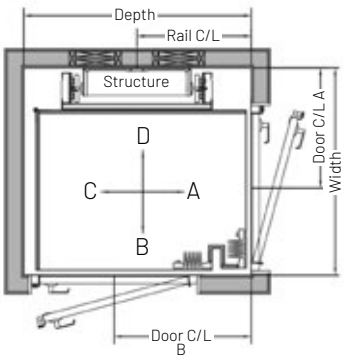
Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L C Side	Clear Opening C Side	Door C/L B Side	Clear Opening B Side
Symmetry Safety Three Panel	40 x 48	55 5⁄8″	55 5⁄8″	31″	30 5⁄8″	33″	25 1⁄8″	33″
	40 x 54	55 1⁄8″	61 5⁄8″	32	30 5⁄8″	33″	31 1⁄8″	33″ [3]



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]



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
Symmetry Safety Three Panel	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]



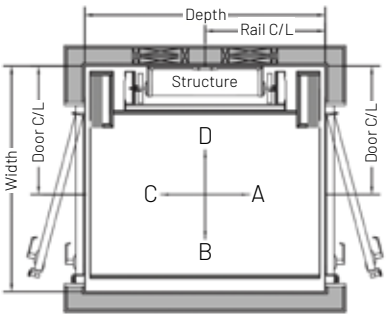
Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L A Side	Clear Opening A Side	Door C/L B Side	Clear Opening B Side
Accordion or Collapsible [2]	36 x 48	50 1⁄4″	54 3⁄4″	27 1⁄2″	29 1⁄4″	28 1⁄2″	33″	33 1⁄2″
	36 x 60	50 1⁄4″	66 3⁄4″	33 1⁄2″	29 1⁄4″	28 1⁄2″	45″	33 1⁄2″ [3]
	40 x 54	54 1⁄4″	60 3⁄4″	32″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

SIZES AND DIMENSIONS

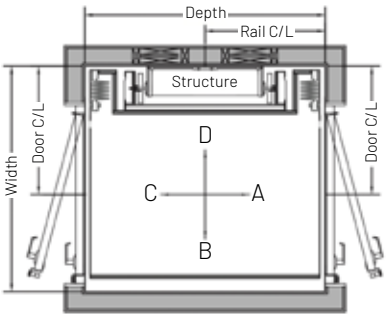
OPPOSITE OPENING

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

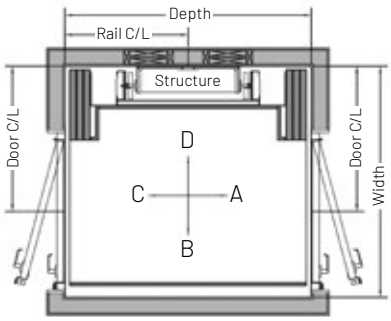
Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Symmetry Safety Three Panel	36 x 54	52″	61 ¾″	31″	30 ¼″	33″
	36 x 60	52″	67 ¾″	34″	30 ¼″	33″
	40 x 54	54 ½″	61 ¾″	31″	32 ¾″	33″ [3]



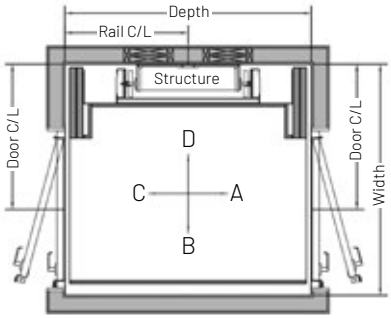
Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Accordion or Collapsible [2]	36 x 48	50 ½″	54″	27″	28 ¾″	33 ½″
	36 x 60	50 ½″	66″	33″	28 ¾″	33 ½″
	40 x 54	54 ½″	60″	30″	32 ¾″	33 ½″ [3]



Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Three Speed Car Doors (Car only)	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″



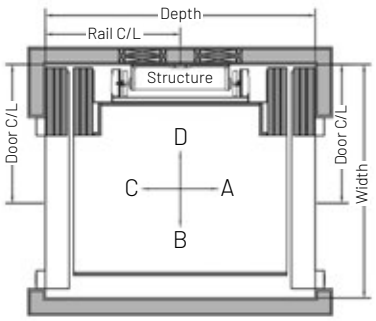
Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Two Speed Car Doors (Car only)	44 x 48	59″	61 ½″	31″	37 ¼″	35 ½″
	44 x 54	59″	67 ½″	34″	37 ¼″	35 ½″



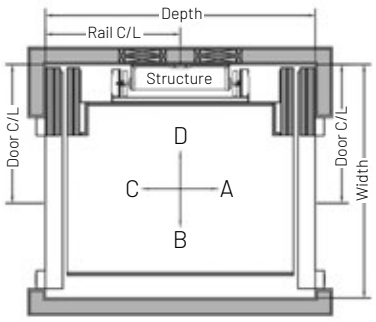
SIZES AND DIMENSIONS

OPPOSITE 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	Clear Opening
Three Speed Car Doors (Car & Landing)	36 x 48	52 ¾″	72 ⅜″	36 ½″	30 ½″	31 ½″
	36 x 60	52 ¾″	84 ⅜″	42 ½″	30 ½″	31 ½″
	38 x 48	55 ¾″	72 ⅜″	36 ½″	31 ½″	35 ½″
	38 x 60	55 ¾″	84 ⅜″	42 ½″	31 ½″	35 ½″
	40 x 54	56 ¾″	78 ⅜″	39 ½″	32 ½″	35 ½″



Car Gate / Door	Car Size	Width	Depth	Rail C/L	Door C/L	Clear Opening
Two Speed Car Doors (Car & Landing)	44 x 48	62″	70 ½″	35 ½″	37 ¾″	35 ½″
	44 x 54	62″	76 ½″	38 ½″	37 ¾″	35 ½″

LANDING FRAMES

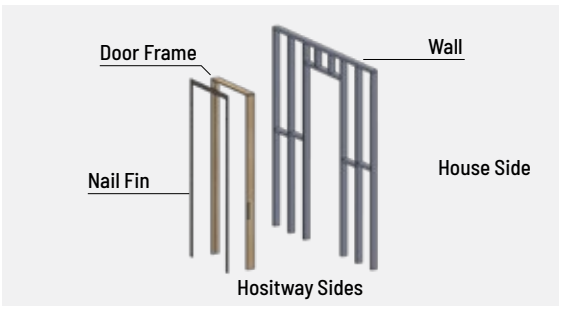
Symmetry Residential Elevator Lock / Frame Packages						
	Electromechanical Locking Device (EMDL)			**Symmetry Locking Device (SLD)**		**Atlock or other**
	Assembled Frame	*Knock Down Frame*	*Integrated Hardware only*	*Assembled Frame*	*Knock Down Frame*	*Fire-Rated Door*
Fire Rating	N/A	N/A	N/A	N/A	N/A	1.5-Hour (B-Label)
Standard Door Dimensions	Built to Order	Build on Site	By Others	Built to Order	Build on Site	36″ or 48″ x 80″
Slab Thickness	1 ¾″ or 1 ⅜″	1 ¾″ or 1 ⅜″	N/A	1 ¾″ or 1 ⅜″	1 ¾″ or 1 ⅜″	1 ¾″
Wall Thickness	4 ½″ Standard (Up to 7″)	4 ½″ or 7″ Standard	N/A	4 ½″ Standard (Up to 7″)	4 ½″ or 7″ Standard	6″
Handing	Right or Left	Ambidextrous	Right or Left	Right or Left	Ambidextrous	Right or Left
Default Material	Red Oak	Poplar	Metal	Red Oak	Poplar	Metal
Fin/Trim	Nail Fin	Hardboard Trim	Optional	Nail Fin	Hardboard Trim	N/A
Vision Panel	N/A	N/A	N/A	N/A	N/A	Available
Latch Guard	Provided	Provided	Provided	N/A	N/A	Provided
Hinge Prep	Available	N/A	N/A	Available	N/A	Provided
Delay Action Door Closer	Available (Headed Frame Required)	N/A	N/A	Available (Headed Frame Required)	N/A	Available
Spring Hinges	Available	N/A	N/A	Available	N/A	Available
Dummy Handle	Available	Available	N/A	Available	Available	Available
Operator Prep	Headed Frame	Headed Frame	N/A	Headed Frame	Headed Frame	Available
Roller Catch	Recommended	Recommended	Recommended	Integrated	Integrated	N/A
Hoistway Side Recessed Pull	Recommended	Recommended	Recommended	Recommended	Recommended	Available at Extra Cost
Finished Option	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

Cibes | symmetry

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