

AES PLANNING GUIDE



ALLIANCE
ELEVATOR SOLUTIONS



Table of Contents:

Thank You	1-2
We Are Different	3-4
Customer Journey	5-6
ToolBOX™ & Configurator	7-8
AlliancePRO™	9-10
Hydraulic - Twin Jack Holeless	11-12
Hydraulic - In-Ground Passenger	13-14
Hydraulic - MRL (IPA & EDA)	15-18
Freight	19-20
MRL Family - Rail Supported	21-22
MRL Family - Frame Building Supported	23-24
MRL Family - Building Supported	25-26
MRL Family - Overslung	27-28
Overhead Traction	29-30
LU/LA	31-32
Entrance and Doors	33-34
Cab Interiors	35-36
Ceiling and Rails	37-38
Fixtures	39-40
AES Lingo	41-42

THANK YOU!

On behalf of the Alliance Elevator Solutions team, we would like to thank you for taking the time to consider us for your next vertical transportation project. Our 100% non-proprietary material package combines simplicity with advanced engineering concepts to deliver a trouble-free, low-cost elevator solution. OurAlliancePRO™ network of independently owned local elevator contractors is dedicated to your project's success and is eager to offer years of elevator experience.

From our inception, AES's goal has been simple: focus on the needs of the building owner through the eyes of the elevator contractor. Our internal and AlliancePRO™ teams value our reputation for being the best at what we do. We feel our customers deserve nothing less. Our honesty, integrity and passion for our craft has earned and kept Alliance's customers coming back. At AES, we consider trust to be the foundation of our business. It is that foundation that has led us to invest in team members, equipment, facilities and technologies to maintain our position as the leader of the non-proprietary elevator market.

To all our current customers, I want to thank you for trusting us with your business! To those thinking about whether AES is right for you; rest assured we are. We guarantee you'll enjoy a totally different elevator experience, and we look forward to working with you.



Sincerely,

Travis Hall - Managing Partner





Alliance Elevator Solutions

We Are Different

WE ARE DIFFERENT

Alliance Elevator Solutions is a privately-owned team of forward-thinking professionals who are passionate about the elevator craft. We stand behind our network of independently owned elevator contractors who know your name, not just your account number. It's time to rethink elevators; it's time to think Alliance Elevator Solutions.



KNOWLEDGE

Our team of in-house, U.S. based elevator engineers have over a century of combined elevator experience. We are so confident in our commercial packages that we proudly boast a 2-year warranty on all major components—that's twice as long as the majors!



TRUSTED SUPPLY CHAIN

We don't try to be the jack of all trades, master of none. We're proud to stick with what we do best – machining, fabricating, and jack building. For the components outside our wheelhouse, we rely on our trusted supply chain of strategic and contractual team of professionals, so that we can offer you the best elevator package available.



CUSTOMIZABLE

New construction to modernization, complete elevator packages to individual components, standard to customized - no matter your elevator needs, we have a solution to fit them.



ADVANCED TECHNOLOGY

We developed, the ToolBox™, a free project management tool with you it mind. It combines simplicity and functionality to make your life easier. Pair that with our step-by-step intelligent pricing tool, and you've got a one-two punch giving you a leg up on your competition.



CONTINUING EDUCATION

From concept to installation, installation to inspection, and inspection to operation, AES is with you on your vertical transportation journey. We offer:

- AIA and CET face-to-face and online courses for architects and consultants
- Step-by-step installation video library, giving independent contractors the competitive edge



NON-PROPRIETARY

Non-proprietary elevator equipment translates into elevators with options for the building owners:

- Choose local service providers based on merit, not brand name
- Negotiate the length of service contracts
- Quicker lead times with thousands of non-proprietary parts available from numerous suppliers



MADE IN NORTH AMERICA

All our products are proudly made in North America.





Alliance Elevator Solutions

Customer Journey



- ### 1. Qualify Lead/ Receive Accurate Quote
- ADVANTAGE PRICING (standard)**
- Log into the ToolBOX™
 - Retrieve instant ADVANTAGE™ Quote
- NON-ADVANTAGE PRICING (custom)**
- Contact your AES Account Manager
 - Submit Architectural Prints and Material specifications if available
 - Custom Quotes have a 72 hour turnaround



- ### 2. New Order Documents are submitted
- ADVANTAGE (standard)**
- Open Order Form via the ToolBOX™
 - Complete Order Form
 - Submit Order
 - The AES team is automatically notified
- NON-ADVANTAGE (custom)**
- Customer sends to Account Manager the following:
 - Signed Quote
 - Company PO
 - Order Form



- ### 5. Customer Provides AES Approved as Noted Drawings
- Field survey to verify actual hoistway conditions is highly recommended at this time
 - Upload signed and approved submittal drawings to the ToolBOX™
 - AES Team is automatically notified of the upload
 - First payment required



- ### 4. Engineering Process is Initiated
- Project management is notified of Order
 - Preliminary Drawings are generated
 - Revise and Resubmit (RNR) drawings are produced (if applicable).
 - Drawings will be uploaded to the ToolBOX™ by project management once available
 - Initial payment is requested



- ### 3. AES Acknowledges the New Order
- ADVANTAGE (standard): Within 24 Hours
Non-ADVANTAGE (custom): Within 72 Hours
- New Order is created in the ToolBOX™
 - Order Acknowledgement email is sent



- ### 6. Final Engineering Review is performed
- Calculations and drawings are reviewed for accuracy
 - Drawings undergo a two-step process for accuracy
 - Manufactured drawings are created
 - Project approved for Release, dependent on Change Order Approval



- ### 7. Change Order is sent to customer/ Project is released to Manufacturing
- Change Order must be acknowledged/approved via the ToolBOX™ within one week to ensure manufactured lead times
 - Once the change order is approved, final drawings are sent to customer (up-to 4 weeks)
 - Shipment payment requested (approximately 20 days prior to shipment)



- ### 8. Logistics/ Shipping Coordination
- Shipment payment required (invoice sent approximately 20 days earlier)
 - Shipping verification email sent once all equipment is received in AES's warehouse
 - Equipment cleared to ship by AES Logistics and Accounting.



- ### 11. Install Elevator
- Send final payment for passcode (if applicable)



- ### 10. Project Arrives on Site
- Material delivery inspection (performed by the customer with-in 24 hours of delivery)

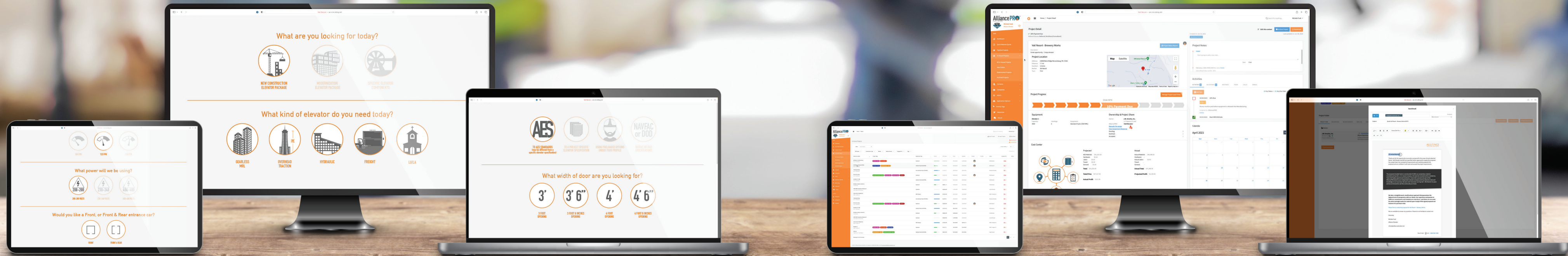


- ### 9. Project Ships
- Photos and Shipping documents uploaded to the ToolBOX™
 - Customer POC is contacted 24 hours prior to delivery



Alliance Elevator Solutions

Services



QUOTING MADE EASIER

Quoting your projects shouldn't be difficult. That's why we created our Configurator. Quote any job, new construction to modernization, complete elevator packages to individual components in just minutes, all from your computer or tablet.



Step-by-step foolproof intelligent pricing tool



New construction and modernization hydraulic packages/components



Update/edit material quotes in seconds, from anywhere*
*requires an internet connection



Instant supplier side-by-side price comparisons



Digital order confirmation; No additional survey forms required!



AES sales & support are just a click or phone call away

PROJECT MANAGMENT MADE EASIER

Developed with you in mind, our ToolBOX™ is unlike any project management tool in our industry. Combining simplicity and functionality, we created one platform that offers numerous benefits to make your life easier.



Real-time material status



Aerial site locator



Project calendar with prepopulated activities



Instant visibility on all projects in manufacturing



Time-saving email templates



Cost center



One central location for project related documents



Easy to track change log



Contact manager

AlliancePRO™:

AlliancePRO™ is an innovative platform designed to take your business to the next level.

As an Independent Elevator Contractor, you're the hardest working group in the industry. You're spending 80 hours a week running your business, following up with leads, generating quotes, managing the team and everything in between, from the office and from the hoistway. It's a never-ending job, and that's why we want to help you spend less time under the mountains of paperwork on your desk, and more time in the mountains, enjoying the view.

Offering your business:

- Growth
- Project Management
- Visibility
- Network
- Value
- Efficiency

AlliancePRO™ is growth, simplified.



ALLIANCE
ELEVATOR SOLUTIONS



GROWTH

Growth. It's the double-edged sword of the independent contractor's business, isn't it? You want your company to grow, but you also know that growth can mean added pressure, increased overhead, and more unpaid overtime hours for you. And that's why we've created the AlliancePRO™ ToolBox™.



PROJECT MANAGEMENT

As an AlliancePRO™ member, you will have access to the AlliancePRO™ ToolBox™, our complimentary project management software designed to take the stress out of managing your next new construction or modernization project. It will help you get organized and figure out everything that could go wrong, before it does, making your next project a breeze.



VISIBILITY

When you're competing against the majors, it can be hard to get noticed. That's where we come in. Your AlliancePRO™ membership will provide you with local and national visibility, and the opportunity to show what you have to offer.



NETWORK

As an Independent Contractor, you're probably used to doing things independently. The AlliancePRO™ Network is an opportunity for you to connect with other experts in the field to share advice, ideas, and everything in between. You don't have to worry about making the right decision about something you've never done before. With the Network, you can talk to someone who has already been there, and done that, and can offer you sound advice on which decision to make. And, you'll have the opportunity to share your expertise with them.



VALUE

As an owner, your business is your livelihood. You've worked hard to build it to where it is now. AlliancePRO™ will only add value to what you've already built. It's all up from here.



EFFICIENCY

As an AlliancePRO™ member, you will have access to the AlliancePRO™ ToolBox™, a software designed to help you work smarter, not harder. You can access the ToolBox™ on your computer or your phone giving you instant access to everything you need at all times.

IF YOU'RE READY TO ELEVATE YOUR BUSINESS. WE'RE READY TO HELP!

SIGN UP: AllianceElevator.net/AlliancePRO

MORE INFO: 1-888-960-5596 or ProSupport@AllianceElevator.net



Hydraulic Low Rise

The ADVANTAGE™ Hydraulic Line (Twin Jack Holeless):

Designing hundreds of our ADVANTAGE™ hydraulic elevator packages and installing them all over North America has shown us that this low-rise package is the true powerhouse of its family.

Advantages:

- High value
- Quick lead times
- Robust equipment
- Standard & custom dimensions/interiors available

Equipment Capabilities:

- Passenger and service cars
- Capacities from 2,100 - 5,000 lb
- Speeds from 100 FPM to 150 FPM
- Travel range up to 60 ft
- Can accommodate 3 stage jacks



ALLIANCE
ELEVATOR SOLUTIONS



HYDRAULIC

The ADVANTAGE™ (Twin Jack Holeless)

Low Capacity Standard Dimension & Specification Chart

Capacity (lb)	Openings (Front/Rear)	Door Type and Width	Platform Size W x D	Hoistway Size W x D	Clear Inside W x D	Running Clearance Sill/Plat	Sill Depth Required
2100	F	SSSO 36"	6'-0" x 5'-1"	7'-4" x 5'-9"	5'-8" x 4'-3"	1 ¼"	5"
2100	F&R	SSSO 36"	6'-0" x 5'-7 ½"	7'-4" x 6'-8"	5'-8" x 4'-4"	1 ¼"	5"
2500	F	SSSO 42"	7'-0" x 5'-1"	8'-4" x 5'-9"	6'-8" x 4'-3"	1 ¼"	5"
2500	F&R	SSSO 42"	7'-0" x 5'-7 ½"	8'-4" x 6'-8"	6'-8" x 4'-4"	1 ¼"	5"
3000	F	SSSO 42"	7'-0" x 5'-6"	8'-4" x 6'-2"	6'-8" x 4'-8"	1 ¼"	5"
3000	F&R	SSSO 42"	7'-0" x 5'-10 ½"	8'-4" x 6'-11"	6'-8" x 4'-7"	1 ¼"	5"
3500	F	SSSO 42"	7'-0" x 6'-3"	8'-4" x 6'-11"	6'-8" x 5'-5"	1 ¼"	5"
3500	F&R	SSSO 42"	7'-0" x 6'-7 ½"	8'-4" x 7'-8"	6'-8" x 5'-5"	1 ¼"	5"
4000**	F	SSSO 42"	8'-0" x 6'-3"	9'-4" x 6'-11"	7'-8" x 5'-4"	1 ¼"	5"
4000**	F&R	SSSO 42"	8'-0" x 6'-7 ½"	9'-4" x 7'-8"	7'-8" x 5'-4"	1 ¼"	5"
4000H	F	2SSO 48"	6'-0" x 8'-5"	7'-4" x 9'-2 ½"	5'-8" x 7'-5"	1 ¼"	6 ½"
4000H	F&R	2SSO 48"	6'-0" x 9'-0 ½"	7'-4" x 10'-4"	5'-8" x 7'-5"	1 ¼"	6 ½"
4500H	F	2SSO 48"	6'-0" x 8'-9"	7'-6" x 9'-6 ½"	5'-8" x 7'-9"	1 ¼"	6 ½"
4500H	F&R	2SSO 48"	6'-0" x 9'-5 ½"	7'-6" x 10'-9"	5'-8" x 7'-10"	1 ¼"	6 ½"
5000H**	F	2SSO 48"	6'-0" x 9'-8"	7'-6" x 10'-7"	5'-8" x 8'-8"	1 ¼"	6 ½"
5000H**	F&R	2SSO 48"	6'-0" x 10'-4"	7'-6" x 11'-7"	5'-8" x 8'-8"	1 ¼"	6 ½"

OVERHEAD REQUIRED - QUICK CALCULATION

	SINGLE STAGE		TWO STAGE		THREE STAGE	
	100 FPM	125 FPM	100 FPM	125 FPM	100 FPM	125 FPM
Pit Depth	4'-0"	4'-0"	4'-0"	4'-0"	5'-0"	5'-0"
Overhead	12'-8"	12'-9"	13'-6"	13'-6"	13'-6"	13'-6"
Top Over Travel	4"	5"	10"	14"	10"	14"
Bottom Over Travel	6"	7"	7"	8"	7"	8"
Travel	13'-10"	13'-7"	24'-2"	22'-4"	38'-6"	36'-0"
Cab Height	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

*Minimum overhead subject to change based on project specifics

APPROXIMATE CLEAR INSIDE DIMENSIONS OF CAB

Width = Platform width less than 4"

Depth = Front Open Only

- SSSO & CO Doors = Platform Depth Less 10"
- 2SSO Doors = Platform Depth less 11 ½"

Depth = Front & Rear Open

- SSSO & CO Doors = Platform Depth Less 16"
- 2SSO Doors = Platform Depth less 19"

D.B.G. (Distance Between Guides)

Platform Width plus 3 ¼" 12#

STANDARD SIZES

- Our standard cab height is 8'
- Our standard pit depth is 4'
- Contact AES for machine room requirements

**Custom sizes. Contact your AES representative for accurate pricing.

Note: Other hoistway sizes can be accommodated. Contact AES team for further information.

If 3 stage jacks are required, 2" additional Hoistway width is needed



Hydraulic Low Rise

The ADVANTAGE™ Hydraulic Line (In-Ground):

Designing hundreds of our ADVANTAGE™ hydraulic elevator packages and installing them all over North America has shown us that this low-rise package is the true powerhouse of its family.

Advantages:

- High value
- Quick lead times
- Robust equipment
- Standard & custom dimensions/interiors available

Equipment Capabilities:

- Passenger and service cars
- Capacities from 2,100 - 5,000 lb
- Speeds from 100 FPM to 150 FPM
- Travel range up to 60 ft

ALLIANCE
ELEVATOR SOLUTIONS



HYDRAULIC

The ADVANTAGE™ (In-Ground)

Low Capacity Standard Dimension & Specification Chart

Capacity (lb)	Openings (Front/Rear)	Door Type and Width	Platform Size W x D	Hoistway Size W x D	Clear Inside W x D	Running Clearance Sill/Plat	Sill Depth Required
2100	F	SSSO 36"	6'-0" x 5'-1"	7'-4" x 5'-9"	5'-8" x 4'-3"	1 ¼"	5"
2100	F&R	SSSO 36"	6'-0" x 5'-7 ½"	7'-4" x 6'-8"	5'-8" x 4'-4"	1 ¼"	5"
2500	F	SSSO 42"	7'-0" x 5'-1"	8'-4" x 5'-9"	6'-8" x 4'-3"	1 ¼"	5"
2500	F&R	SSSO 42"	7'-0" x 5'-7 ½"	8'-4" x 6'-8"	6'-8" x 4'-4"	1 ¼"	5"
3000	F	SSSO 42"	7'-0" x 5'-6"	8'-4" x 6'-2"	6'-8" x 4'-8"	1 ¼"	5"
3000	F&R	SSSO 42"	7'-0" x 5'-10 ½"	8'-4" x 6'-11"	6'-8" x 4'-7"	1 ¼"	5"
3500	F	SSSO 42"	7'-0" x 6'-3"	8'-4" x 6'-11"	6'-8" x 5'-5"	1 ¼"	5"
3500	F&R	SSSO 42"	7'-0" x 6'-7 ½"	8'-4" x 7'-8"	6'-8" x 5'-5"	1 ¼"	5"
4000**	F	SSSO 42"	8'-0" x 6'-3"	9'-4" x 7'-0"	7'-8" x 5'-5"	1 ¼"	5"
4000**	F&R	SSSO 42"	8'-0" x 6'-9"	9'-4" x 9'-0 ½"	7'-8" x 5'-5"	1 ¼"	5"
4000H	F	2SSO 48"	6'-0" x 8'-5"	7'-4" x 9'-2 ½"	5'-8" x 7'-5"	1 ¼"	6 ½"
4000H	F&R	2SSO 48"	6'-0" x 9'-0 ½"	7'-4" x 10'-4"	5'-8" x 7'-5"	1 ¼"	6 ½"
4500H	F	2SSO 48"	6'-0" x 8'-9"	7'-6" x 9'-6 ½"	5'-8" x 7'-9"	1 ¼"	6 ½"
4500H	F&R	2SSO 48"	6'-0" x 9'-5 ½"	7'-6" x 10'-9"	5'-8" x 7'-10"	1 ¼"	6 ½"
5000H**	F	2SSO 48"	6'-0" x 9'-8"	7'-6" x 10'-7"	5'-8" x 8'-8"	1 ¼"	6 ½"
5000H**	F&R	2SSO 48"	6'-0" x 10'-4"	7'-6" x 11'-7"	5'-8" x 8'-8"	1 ¼"	6 ½"

OVERHEAD REQUIRED QUICK CALCULATION

- Regardless of what the travel is, the standard minimum overhead is 12' - 8". Consult your Alliance representative if your overhead is less than 12' - 8".

STANDARD SIZES

- Our standard cab height is 8'
- Our standard pit depth is 4'
- Contact AES for machine room requirements

**Custom sizes. Contact your AES representative for accurate pricing.

APPROXIMATE CLEAR INSIDE DIMENSIONS OF CAB

Width = Platform width less than 4"

Depth = Front Open Only

SSSO & CO Doors = Platform Depth Less 10"
2SSO Doors = Platform Depth less 11 ½"

Depth = Front & Rear Open

SSSO & CO Doors = Platform Depth Less 16"
2SSO Doors = Platform Depth less 19"

D.B.G. (Distance Between Guides)

Platform Width plus 3 ¼" 12#

Note: Other hoistway sizes can be accommodated. Contact AES team for further information.



MRL Family Low Rise

The ADVANTAGE MRL™ (Hydraulic)

AVAILABLE IN TWO ARRANGEMENT OPTIONS:

ADVANTAGE MRL™ IPA

The In-Pit Arrangement MRL utilizes an in-pit power unit accompanied by an in-wall controller and valve box, making this space saving configuration the ideal choice when every square inch of floor space counts.

ADVANTAGE MRL™ EDA

The Equipment Door Arrangement MRL utilizes engineered components and is a fantastic choice for service-minded building owners as it allows for easy access to many of the service components of the elevator equipment.

Advantages:

- Saves on valuable floor space
- Cost effective
- Low True cost of ownership
- Standard & custom dimensions/interiors available

Equipment Capabilities*:

- Passenger cars
- Capacities from 2,100 - 5,000 lb
- Speeds up to 100 FPM
- Travel up to 41'2" based on adequate pit and hoistway space



ALLIANCE
ELEVATOR SOLUTIONS



MRL FAMILY

The ADVANTAGE MRL™ (Hydraulic)

Low Capacity Standard Dimension & Specification Chart

Capacity (lb)	Openings (Front/Rear)	Door Type and Width	Platform Size W x D	Hoistway Size W x D	Clear Inside W x D	Running Clearance Sill/Plat	Sill Depth Required
2100	F	SSSO 36"	6'-0" x 5'-1"	7'-4" x 5'-9"	5'-8" x 4'-3"	1 ¼"	5"
2100	F&R	SSSO 36"	6'-0" x 5'-7 ½"	7'-4" x 6'-8"	5'-8" x 4'-4"	1 ¼"	5"
2500	F	SSSO 42"	7'-0" x 5'-1"	8'-4" x 5'-9"	6'-8" x 4'-3"	1 ¼"	5"
2500	F&R	SSSO 42"	7'-0" x 5'-7 ½"	8'-4" x 6'-8"	6'-8" x 4'-4"	1 ¼"	5"
3000	F	SSSO 42"	7'-0" x 5'-6"	8'-4" x 6'-2"	6'-8" x 4'-8"	1 ¼"	5"
3000	F&R	SSSO 42"	7'-0" x 5'-10 ½"	8'-4" x 6'-11"	6'-8" x 4'-7"	1 ¼"	5"
3500	F	SSSO 42"	7'-0" x 6'-3"	8'-4" x 6'-11"	6'-8" x 5'-5"	1 ¼"	5"
3500	F&R	SSSO 42"	7'-0" x 6'-7 ½"	8'-4" x 7'-8"	6'-8" x 5'-5"	1 ¼"	5"
4000**	F	SSSO 42"	8'-0" x 6'-3"	9'-4" x 7'-0"	7'-8" x 5'-4"	1 ¼"	5"
4000**	F&R	SSSO 42"	8'-0" x 6'-7 ½"	9'-4" x 9'-0 ½"	7'-8" x 5'-4"	1 ¼"	5"
4000H	F	2SSO 48"	6'-0" x 8'-5"	7'-4" x 9'-2 ½"	5'-8" x 7'-5"	1 ¼"	6 ½"
4000H	F&R	2SSO 48"	6'-0" x 9'-0 ½"	7'-4" x 10'-4"	5'-8" x 7'-5"	1 ¼"	6 ½"
4500H	F	2SSO 48"	6'-0" x 8'-9"	7'-6" x 9'-6 ½"	5'-8" x 7'-9"	1 ¼"	6 ½"
4500H	F&R	2SSO 48"	6'-0" x 9'-5 ½"	7'-6" x 10'-9"	5'-8" x 7'-10"	1 ¼"	6 ½"
5000H**	F	2SSO 48"	6'-0" x 9'-8"	7'-6" x 10'-7"	5'-8" x 8'-8"	1 ¼"	6 ½"
5000H**	F&R	2SSO 48"	6'-0" x 10'-4"	7'-6" x 11'-7"	5'-8" x 8'-8"	1 ¼"	6 ½"

OVERHEAD REQUIRED - QUICK CALCULATION

	SINGLE STAGE		TWO STAGE		THREE STAGE	
	100 FPM	125 FPM	100 FPM	125 FPM	100 FPM	125 FPM
Pit Depth	4'-0"	4'-0"	4'-0"	4'-0"	5'-0"	5'-0"
Overhead	12'-8"	12'-9"	13'-6"	13'-6"	13'-6"	13'-6"
Top Over Travel	4"	5"	10"	14"	10"	14"
Bottom Over Travel	6"	7"	7"	8"	7"	8"
Travel	13'-10"	13'-7"	24'-2"	22'-4"	38'-6"	36'-0"
Cab Height	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"	8'-0"

*Minimum overhead subject to change based on project specifics



*EDA Configurations
Add 8" to hoistway width,
OR 12" to hoistway depth

APPROXIMATE CLEAR INSIDE DIMENSIONS OF CAB

Width = Platform width less than 4"

Depth = Front Open Only

- SSSO & CO Doors = Platform Depth Less 10"
- 2SSO Doors = Platform Depth less 11 ½"

Depth = Front & Rear Open

- SSSO & CO Doors = Platform Depth Less 16"
- 2SSO Doors = Platform Depth less 19"

D.B.G. (Distance Between Guides)

Platform Width plus 3 ¼" 12#

STANDARD SIZES

- Our standard cab height is 8'
- Our standard pit depth is 4'
- Contact AES for machine room requirements

**Custom sizes. Contact your AES representative for accurate pricing.

Note: Other hoistway sizes can be accommodated. Contact AES team for further information.

If 3 stage jacks are required, 2" additional Hoistway width is needed



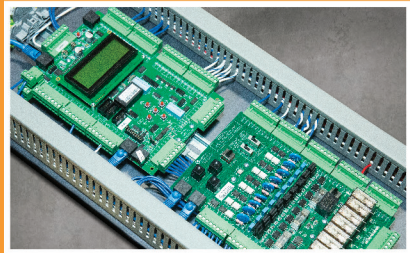
Passenger & Service
Cars Available



MRL FAMILY

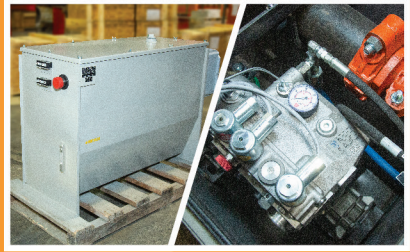
The ADVANTAGE MRL™ (Hydraulic)

KEY IPA COMPONENTS (IN-PIT ARRANGEMENT)



CONTROLLER ARRANGEMENTS (SRU BOARDS - VALVE BOX, WITH MANUAL LEVER)

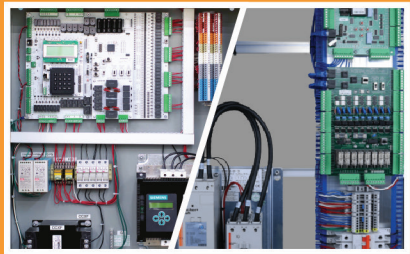
The IPA design is powered by a highly customized non-proprietary Smartrise Engineering serial link solid-state controller. This specialized arrangement fits in walls as thin as 8 1/2". The mounted user interface tool provides easy access to adjustments and parameters for maintenance and service.



POWER UNIT

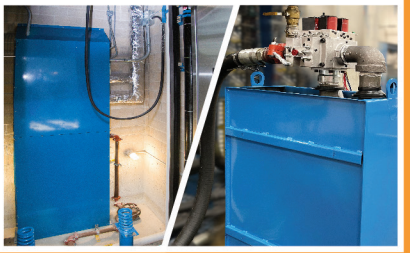
The power unit, located in the pit, is designed with expansion chambers and pulsating mufflers to reduce noise and ensure a quite ride. The electronic valve is engineered by German specialists, providing the smoothest ride available in a hydraulic elevator.

KEY EDA COMPONENTS (EQUIPMENT DOOR ARRANGEMENT)



CONTROLLER

The EDA maximizes flexibility by allowing space for most non-proprietary controller manufacturers. This flexibility is just one more reason why the EDA is the preferred choice for many of our independent AlliancePROs.



POWER UNIT

The power unit, located behind the main elevator rails and accessible by an access door, is designed to incorporate a proven Maxton control valve. The EDA arrangement allows for maximum serviceability by allowing access to the power unit without entering the hoistway.

ADVANTAGE MRL™ IPA (In-Pit Arrangement)

PROS

CONS

- No machine closet needed
- Fits in most standard hoistway footprints
- Hall box/main controller box is hidden in the wall
- Uses advanced electronic valve to maximize space & offers micro adjustments to deliver a very smooth ride
- Does not require an access door
- Very quiet - in most cases, less than 60 decibels
- Elevator disconnects may be included in elevator package
- Performing maintenance on power unit requires working under platform
- Rough opening required for valve box on the lowest landing
- Limited controller options
- Limited to 40hp, which could limit elevator speed
- Requires at least 8 1/2" wall thickness for hall box
- More costly of the two hydraulic MRL options

-
-
-
-
-
-
-
-
-
-
-
-

ADVANTAGE MRL™ EDA (Equipment Door Arrangement)

PROS

CONS

- Most cost effective MRL option
- Utilizes proven hydraulic components throughout hoistway equipment
- Works with many control valve manufactures
- Does not require work underneath a car
- Works with controller company of your choice
- Room for electrician provided main line disconnects
- Requires additional 8" in hoistway width to fit power unit, or 12" to rear of hoistway
- Requires a fire rated access door on lowest landing
- Motor and pump difficult to access for maintenance

-
-
-
-
-
-
-
-
-



Freight

Low & Mid Rise

Freight:

From lifting heavy pallets, to lifting a forklift full of pallets, AES's line of freight elevators will do your heavy lifting. Our team of freight professionals will guide you through design, development and delivery, making sure to create an elevator that fits your exact specifications.

Classes:



Class A: General Freight Loading



Class B: Motor Vehicle Loading



Class C1: Industrial Truck Loading (truck is carried)



Class C2: Industrial Truck Loading (truck is not carried)



Class C3: Concentrated Loading



ALLIANCE
ELEVATOR SOLUTIONS



FREIGHT

Low & Mid Rise

Note: All AES Freight packages are custom, the dimensions supplied herein are for guideline purposes.

Capacity (lb)	Openings (Front/Rear)	Clear Door Width	Platform Size W x D	Hoistway Depth Platform Plus	Hoistway Size W x D	Clear Inside W x D	Minimum Platform to Side Wall
Class A & C Loading							
4000	F	5'-8"	6'-0" x 8'-0"	8"	7'-8" x 8'-8"	5'-8" x 7'-5"	10"
4000	F&R	5'-8"	6'-0" x 8'-0"	10"	7'-8" x 8'-10"	5'-8" x 7'-4"	10"
5000	F	6'-8"	7'-0" x 10'-0"	8"	8'-10" x 10'-8"	6'-8" x 9'-5"	11"
5000	F&R	6'-8"	7'-0" x 10'-0"	10"	8'-10" x 10'-10"	6'-8" x 9'-4"	11"
6000	F	8'-0"	8'-4" x 10'-0"	8"	10'-2" x 10'-8"	8'-0" x 9'-5"	11"
6000	F&R	8'-0"	8'-4" x 10'-0"	10"	10'-2" x 10'-10"	8'-0" x 9'-4"	11"
8000	F	8'-0"	8'-4" x 10'-0"	8"	10'-2" x 12'-8"	8'-0" x 11'-5"	11"
8000	F&R	8'-0"	8'-4" x 10'-0"	10"	10'-2" x 12'-10"	8'-0" x 11'-4"	11"
10000	F	10'-0"	10'-4" x 14'-0"	8"	12'-2" x 14'-8"	10'-0" x 13'-5"	11"
10000	F&R	10'-0"	10'-4" x 14'-0"	10"	12'-2" x 14'-10"	10'-0" x 13'-4"	11"
12000	F	12'-0"	12'-4" x 16'-0"	8"	14'-4" x 16'-8"	12'-0" x 15'-5"	12"
12000	F&R	12'-0"	12'-4" x 16'-0"	10"	14'-4" x 16'-10"	12'-0" x 15'-4"	12"
15000	F	12'-0"	12'-4" x 18'-0"	8"	14'-4" x 18'-8"	12'-0" x 17'-5"	12"
15000	F&R	12'-0"	12'-4" x 16'-0"	10"	14'-4" x 18'-10"	12'-0" x 17'-4"	12"
Class B Motor Vehicle Loading							
8000	F	9'-0"	9'-4" x 22'-0"	8"	11'-2" x 22'-8"	9'-0" x 21'-5"	11"
8000	F&R	9'-0"	9'-4" x 22'-0"	10"	11'-2" x 22'-10"	9'-0" x 21'-4"	11"
10000	F	10'-0"	10'-4" x 24'-0"	8"	12'-2" x 24'-8"	9'-0" x 23'-5"	11"
10000	F&R	10'-0"	10'-4" x 24'-0"	10"	12'-2" x 24'-10"	10'-0" x 23'-4"	11"

APPROXIMATE CLEAR INSIDE DIMENSIONS OF CAB

Width = Platform Width less than 4"

Depth = Front Open Only

Single-section gate = Platform Less 6 1/2"

Two-section gate = Platform less 8 1/2"

Depth = Front & Rear Open

Single-section gate = Platform Less 8 1/2"

Two-section gate = Platform less 13"

D.B.G. (Distance Between Guides)

Platform width plus 4"

ENTRANCE DOORS GATE HEIGHTS

The freight car door height is the same height as the clear inside cab height (typically minimum of 8'-0"). The standard (typical) vertical car gate is 1-section of 6'-0" high, sliding straight up to clear the cab height.

OVERHEAD AND PIT DEPTH QUICK CALCULATION

- Minimum overhead using single-section car gate = Cab height + (car gate height of 6'-0") + 6"
- Minimum pit depth using vertical bi-parting freight doors = 1/2 door height + 6"
- For seismic zone 2 or greater application – increase hoistway width 2"
- For 1 1/4" running clearance, increase hoistway depth 1/2"



MRL Family Low Rise

The EDGE MRL™ (Rail Supported - Traction):

The EDGE MRL™ utilizes the Torin gearless machine and boasts the tightest non-proprietary hoistway dimensions in the industry.

Advantages:

- Saves on valuable floor space
- Greater power efficiency
- Superior performance and ride quality
- Reduction on the elevator power feeder
- Underslung assembly
- Standard & custom dimensions/interiors available

Equipment Capabilities:

- Passenger and service cars
- Capacities from 2,100 - 3,500 lb
- Speeds from 200 FPM to 350 FPM
- Travel up to 50 ft

ALLIANCE
ELEVATOR SOLUTIONS



MRL FAMILY

The EDGE MRL™ (Rail Supported - Traction)

Capacity (lb)	Openings (Front/Rear)	Platform Size W x D	Hoistway Size W x D	Clear Opening	Clear Inside W x D	SSSO Door	SSCO Door	2SSO Door
2100	F	6'-0" X 5'-1"	7'-8" X 5'-10"	3'-0"	5'-8" X 4'-3"	X		
2100	F&R	6'-0" X 5'-7 1/2"	7'-8" X 6'-8"	3'-0"	5'-8" X 4'-4"	X		
2500	F	7'-0" X 5'-1"	8'-8" X 5'-10"	3'-6"	6'-8" X 4'-3"	X	X	
2500	F&R	7'-0" X 5'-7 1/2"	8'-8" X 6'-8"	3'-6"	6'-8" X 4'-4"	X	X	
3000	F	7'-0" X 5'-6"	8'-8" X 6'-3"	3'-6"	6'-8" X 4'-8"	X	X	
3000	F&R	7'-0" X 5'-10 1/2"	8'-8" X 6'-11"	3'-6"	6'-8" X 4'-7"	X	X	
3500	F	7'-0" X 6'-3"	8'-8" X 7'-0"	3'-6"	6'-8" X 5'-5"	X	X	
3500	F&R	7'-0" X 6'-7 1/2"	8'-8" X 7'-8"	3'-6"	6'-8" X 5'-5"	X	X	

- Note: Clear inside will vary slightly depending on door speed and interior finishes
- Hoistway dimensions are minimum clear inside requirements. Shorter installation times can be obtained by increasing these dimensions by up to 2". For seismic zone 2 and and up, add 2" to hoistway width to comply with Code requirements. Due to space limitations Rail Supported Elevator use compensation chain to avoid use of the counterweight guard.
- Use of 8mm and 10mm ropes for traction elevator was approved by ASME A17.7 - effective 1st July 2010.
- New York City Building Department has issued new rules governing the overhead requirements for MRL's. Please contact your AES representative.

Pit and Overhead Minimum Requirements for Cars with 8'-0" Cab Height

Speed	P2100		P2500		P3000		P3500	
	Pit	O.H.	Pit	O.H.	Pit	O.H.	Pit	O.H.
100 FPM*	5'-0"	14'-6"/14'-0"	5'-0"	14'-6"/14'-0"	5'-0"	14'-6"/14'-0"	5'-0"	14'-6"/14'-0"
150 FPM*	5'-0"	14'-6"/14'-1"	5'-0"	14'-6"/14'-1"	5'-0"	14'-6"/14'-1"	5'-0"	14'-6"/14'-1"
200 FPM*	5'-0"	14'-9"/14'-3"	5'-0"	14'-9"/14'-3"	5'-0"	14'-9"/14'-3"	5'-0"	14'-9"/14'-3"
250 FPM**	5'-6"	15'-0"/14'-6"	5'-6"	15'-0"/14'-6"	5'-6"	15'-0"/14'-6"	5'-6"	15'-0"/14'-6"
300 FPM**	5'-6"	15'-1"/14'-7"	5'-6"	15'-1"/14'-7"	5'-6"	15'-1"/14'-7"	5'-6"	15'-1"/14'-7"
350 FPM**	5'-6"	15'-4"/14'-10"	5'-6"	15'-4"/14'-10"	5'-6"	15'-4"/14'-10"	5'-6"	15'-4"/14'-10"

- Rail Supported MRL designed with Torin TPM series machine.
- *Spring buffers for car and counterweight based on ASME A17.1.
- **Oil buffers for car and counterweight based on ASME A17.1.
- O.H. Left column has spring or oil buffers with 6" Runby/Right Column has all oil buffers with 0" Runby.
- Note: For cars with tall cabs add 1" to O.H. for every inch of cab height added.

Note: Other hoistway sizes can be accommodated. Contact AES team for further information.



MRL Family

Mid - High Rise

The EDGE MRL™ (Frame Building Supported - Traction):

The EDGE MRL™ utilizes the Torin gearless machine and boasts the tightest non-proprietary hoistway dimensions in the industry.

Advantages:

- Saves on valuable floor space
- Greater power efficiency
- Superior performance and ride quality
- Reduction on the elevator power feeder
- Underslung assembly
- Standard & custom dimensions/interiors available

Equipment Capabilities:

- Passenger and service cars
- Capacities from 2,100 - 3,500 lb
- Speeds from 200 FPM to 350 FPM
- Travel up to 200 ft

Note: Machine beam pockets are required in the hoistway walls.

ALLIANCE
ELEVATOR SOLUTIONS



MRL FAMILY

The EDGE MRL™ (Frame Building Supported - Traction)

Capacity (lb)	Openings (Front/Rear)	Platform Size W x D	Hoistway Size W x D	Clear Opening	Clear Inside W x D	SSSO Door	SSCO Door	2SSO Door
2100	F	6'-0" X 5'-1"	7'-8" X 5'-10"	3'-0"	5'-8" X 4'-3"	X		
2100	F&R	6'-0" X 5'-7 ½"	7'-8" X 6'-8"	3'-0"	5'-8" X 4'-4"	X		
2500	F	7'-0" X 5'-1"	8'-8" X 5'-10"	3'-6"	6'-8" X 4'-3"	X	X	
2500	F&R	7'-0" X 5'-7 ½"	8'-8" X 6'-8"	3'-6"	6'-8" X 4'-4"	X	X	
3000	F	7'-0" X 5'-6"	8'-8" X 6'-3"	3'-6"	6'-8" X 4'-8"	X	X	
3000	F&R	7'-0" X 5'-10 ½"	8'-8" X 6'-11"	3'-6"	6'-8" X 4'-7"	X	X	
3500	F	7'-0" X 6'-3"	8'-8" X 7'-0"	3'-6"	6'-8" X 5'-5"	X	X	
3500	F&R	7'-0" X 6'-7 ½"	8'-8" X 7'-8"	3'-6"	6'-8" X 5'-5"	X	X	

- Note: Clear inside will vary slightly depending on door speed and interior finishes
- Hoistway dimensions are minimum clear inside requirements. Shorter installation times can be obtained by increasing these dimensions by up to 2". For seismic zone 2 and and up, add 2" to hoistway width to comply with Code requirements. Due to space limitations Frame Building Supported Elevator use compensation chain to avoid use of the counterweight guard.
- Use of 8mm and 10mm ropes for traction elevator was approved by ASME A17.7 - effective 1st July 2010.
- New York City Building Department has issued new rules governing the overhead requirements for MRL's. Please contact your AES representative.

Pit and Overhead Minimum Requirements for Cars with 8'-0" Cab Height

Speed	P2100		P2500		P3000		P3500	
	Pit	O.H.	Pit	O.H.	Pit	O.H.	Pit	O.H.
100 FPM*	5'-0"	14'-6"/14'-0"	5'-0"	14'-6"/14'-0"	5'-0"	14'-6"/14'-0"	5'-0"	14'-6"/14'-0"
150 FPM*	5'-0"	14'-6"/14'-1"	5'-0"	14'-6"/14'-1"	5'-0"	14'-6"/14'-1"	5'-0"	14'-6"/14'-1"
200 FPM*	5'-0"	14'-9"/14'-3"	5'-0"	14'-9"/14'-3"	5'-0"	14'-9"/14'-3"	5'-0"	14'-9"/14'-3"
250 FPM**	5'-6"	15'-0"/14'-6"	5'-6"	15'-0"/14'-6"	5'-6"	15'-0"/14'-6"	5'-6"	15'-0"/14'-6"
300 FPM**	5'-6"	15'-1"/14'-7"	5'-6"	15'-1"/14'-7"	5'-6"	15'-1"/14'-7"	5'-6"	15'-1"/14'-7"
350 FPM**	5'-6"	15'-4"/14'-10"	5'-6"	15'-4"/14'-10"	5'-6"	15'-4"/14'-10"	5'-6"	15'-4"/14'-10"

- Rail Supported MRL designed with Torin TPM series machine.
- *Spring buffers for car and counterweight based on ASME A17.1.
- **Oil buffers for car and counterweight based on ASME A17.1.
- O.H. Left column has spring or oil buffers with 6" Runby/Right Column has all oil buffers with 0" Runby.
- Note: For cars with tall cabs add 1" to O.H. for every inch of cab height added.

Note: Other hoistway sizes can be accommodated. Contact AES team for further information.



MRL Family

Mid - High Rise

The EDGE MRL™ (Building Supported - Traction):

The EDGE MRL™ utilizes the Torin gearless machine and boasts the tightest non-proprietary hoistway dimensions in the industry.

Advantages:

- Saves on valuable floor space
- Greater power efficiency
- Superior performance and ride quality
- Reduction on the elevator power feeder
- Underslung assembly
- Standard & custom dimensions/interiors available

Equipment Capabilities:

- Passenger and service cars
- Capacities from 2,100 - 5,000 lb
- Speeds from 200 FPM to 500 FPM
- Travel up to 300 ft

Note: Machine beam pockets are required in the hoistway walls.

ALLIANCE
ELEVATOR SOLUTIONS



MRL FAMILY

The EDGE MRL™ (Building Supported - Traction)

Capacity (lb)	Openings (Front/Rear)	Platform Size W x D	Hoistway Size W x D	Clear Opening	Clear Inside W x D	SSSO Door	SSCO Door	2SSO Door
2100	F	6'-0" x 5'-1"	7'-6" x 6'-5"	3'-0"	5'-8" X 4'-3"	X		
2100	F&R	6'-0" x 5'-7 1/2"	7'-6" x 6'-8"	3'-0"	5'-8" X 4'-4"	X		
2500	F	7'-0" x 5'-1"	8'-6" x 6'-5"	3'-6"	6'-8" X 4'-3"	X	X	
2500	F&R	7'-0" x 5'-7 1/2"	8'-6" x 6'-8"	3'-6"	6'-8" X 4'-4"	X	X	
3000	F	7'-0" x 5'-6"	8'-6" x 6'-8"	3'-6"	6'-8" X 4'-8"	X	X	
3000	F&R	7'-0" x 5'-10 1/2"	8'-6" x 6'-11"	3'-6"	6'-8" X 5'-1"	X	X	
3500	F	7'-0" x 6'-3"	8'-6" x 7'-0"	3'-6"	6'-8" X 5'-5"	X	X	
3500	F&R	7'-0" x 6'-7 1/2"	8'-6" x 7'-8"	3'-6"	5'-8" X 5'-5"	X	X	
4000**	F	8'-0" x 6'-3"	9'-7" x 7'-0"	4'-0"	7'-8" X 5'-5"	X	X	
4000**	F&R	8'-0" x 6'-9"	9'-7" x 7'-9 1/2"	4'-0"	7'-8" X 5'-5"			X
4000H	F	6'-0" x 8'-5"	7'-6" x 9'-3"	4'-0"	5'-8" X 7'-5"			X
4000H	F&R	6'-0" x 9'-1/2"	7'-6" x 10'-4"	4'-0"	5'-8" X 7'-5"			X
4500H	F	6'-0" x 8'-9"	7'-6" x 9'-7"	4'-0"	5'-8" X 7'-9"			X
4500H	F&R	6'-0" x 9'-5 1/2"	7'-6" x 10'-9"	4'-0"	5'-8" X 7'-10"			X
5000H**	F	6'-0" x 9'-8"	7'-6" x 10'-6"	4'-0"	5'-8" X 8'-8"			X
5000H**	F&R	6'-0" x 10'-4"	7'-6" x 11'-7 1/2"	4'-0"	5'-8" X 8'-8"			X

Pit and Overhead Minimum Requirements for Cars with 8'-0" Cab Height

Speed	P2100, P2500, P3000, P3500 Pit	P2100, P2500, P3000, P3500 O.H.	P4000, S4000, S4500, S5000 Pit	P4000, S4000, S4500, S5000 O.H.
100 FPM*	5'-0"	16'-1"/15'-8"	5'-0"	15'-7"/15'-2"
150 FPM*	5'-0"	16'-2"/15'-8"	5'-0"	15'-8"/15'-2"
200 FPM*	5'-0"	16'-4"/15'-9"	5'-0"	15'-10"/15'-3"
250 FPM**	5'-6"	16'-8"/16'-2"	5'-6"	16'-2"/15'-8"
300 FPM**	5'-6"	16'-8"/16'-2"	5'-6"	16'-2"/15'-8"
350 FPM**	5'-6"	17'-0"/16'-6"	5'-6"	16'-6"/16'-0"
400 FPM**	5'-9"	16'-9"/16'-3"	6'-0"	16'-9"/16'-3"
450 FPM**	6'-3"	17'-4"/16'-10"	6'-6"	17'-4"/16'-10"
500 FPM**	6'-3"	17'-6"/17'-0"	6'-6"	17'-6"/17'-0"

- Building Supported MRL is designed with a Torin TSM series machine which requires high voltage.
- O.H. Left column has spring or oil buffers with 6" Runby/Right Column has all oil buffers with 0" Runby.
- Note: For cars with tall cabs add 1" to O.H. for every inch of cab height added.

*Spring buffers for car and counterweight based on ASME A17.1.

**Oil buffers for car and counterweight based on ASME A17.1.

- Hoistway dimensions are minimum clear inside requirements. Shorter installation times can be obtained by increasing these dimensions by up to 2". For seismic zone 2 and and up, add 2" to hoistway width to comply with Code requirements. Due to space limitations Building Supported Elevator use compensation chain to avoid use of the counterweight guard.
- Use of 8mm and 10mm ropes for traction elevator was approved by ASME A17.7 - effective 1st July 2010.
- New York City Building Department has issued new rules governing the overhead requirements for MRL's. Please contact a Alliance Elevator Solutions representative.
- Clear inside will vary slightly dependent on door speed and interior finishes

**Custom sizes. Contact your AES representative for accurate pricing.

Note: Other hoistway sizes can be accommodated. Contact AES team for further information.



MRL Family Mid Rise

The EDGE MRL™ (Overslung/Cornerpost - Traction):

The EDGE MRL™ utilizes the Torin gearless machine and boasts the tightest non-proprietary hoistway dimensions in the industry.

Advantages:

- Saves on valuable floor space
- Greater power efficiency
- Superior performance and ride quality
- Reduction on the elevator power feeder
- Multiple door configurations available
- Standard & custom dimensions/interiors available

Equipment Capabilities:

- Passenger and service cars
- Capacities from 2,100 - 3,500 lb
- Speeds from 100 FPM to 350 FPM
- Travel up to 300 ft

Note: Machine beam pockets are required in the hoistway walls.



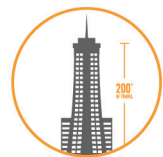
MRL FAMILY

The EDGE MRL™ (Overslung/Cornerpost - Traction)

Equipment Included:

- Gearless MRL permanent magnet Torin machine
- Governor and tail sheave
- Overhead beams, machine bedplate, hitch plates, governor plate
- Counterweight frame and weights
- Car & cwt roller guides with mounting plates
- Sling including:
 - Crosshead
 - Stiles
 - Bolsters
 - Brace rods
 - Strike plates
- Platform with toe guard
- Buffer stands, spring or oil buffers
- Safeties
- Guide rails, rail brackets with spreader plates, clips and fasteners
- Car & cwt ropes and wedge sockets
- Limit switches, mounting brackets & cam
- All hardware included in labeled bags

ALLIANCE
ELEVATOR SOLUTIONS



Overhead Traction

Mid - High Rise

The OT™ Line:

Our geared overhead traction elevator is the workhorse of most mid and high-rise buildings. AES has earned the respect of architects who have specified these robust machines throughout North America. From offices to mixed-use and hospitality locations, our mid-rise track record is proof of our experience and capabilities.

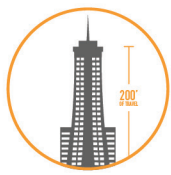
Advantages:

- Faster Speed Capability
- Smooth ride
- More efficient than hydraulic
- No hydraulic oil needed
- Proven performance track record
- Standard & custom dimensions/interiors available

Equipment Capabilities:

- Passenger and service cars
- Capacities from 2,100 - 5,000 lb
- Speeds up to 350 FPM
- Unlimited travel range
- Machine Room (penthouse) is required

ALLIANCE
ELEVATOR SOLUTIONS



OVERHEAD TRACTION

Mid - High Rise

Capacity (lb)	Openings (Front/Rear)	Platform Size W x D	Hoistway Size W x D	Clear Inside W x D	Minimum Pit Depth
Counterweight at Rear					
2100	F	6'-0" X 5'-1"	7'-4" X 6'-8"	5'-8" X 4'-3"	5'-2"
2500	F	7'-0" X 5'-1"	8'-4" X 6'-8"	6'-8" X 4'-3"	5'-2"
3000	F	7'-0" X 5'-6"	8'-4" X 7'-1"	6'-8" X 4'-3"	5'-2"
3500	F	7'-0" X 6'-3"	8'-4" X 7'-10"	6'-8" X 5'-5"	5'-2"
4000H	F	8'-0" X 6'-2"	9'-4" X 7'-8 1/2"	5'-9" X 7'-5"	5'-2"
Counterweight at Side					
2100	F	6'-0" X 5'-1"	8'-4" X 5'-9"	5'-8" X 4'-3"	5'-2"
2500	F	7'-0" X 5'-1"	9'-4" X 5'-9"	6'-8" X 4'-3"	5'-2"
3000	F	7'-0" X 5'-6"	9'-4" X 6'-2"	6'-8" X 4'-8"	5'-2"
3500	F	7'-0" X 6'-3"	9'-4" X 6'-11"	6'-8" X 5'-5"	5'-2"
3500	F&R	7'-0" X 6'-7 1/2"	9'-4" X 7'-8"	7'-8" X 5'-5"	5'-2"
4000**	F	8'-0" X 6'-2"	9'-10" X 6'-10"	5'-8" X 7'-5"	5'-2"
4000**	F&R	8'-0" X 6'-8"	9'-10" X 7'-8 1/2"	5'-8" X 7'-5"	5'-2"
4000H	F	6'-0" X 8'-5"	7'-10" X 9'-3"	5'-8" X 7'-5"	5'-2"
4000H	F&R	6'-0" X 9'-0 1/2"	7'-10" X 10'-4"	5'-8" X 7'-5"	5'-2"
4500H	F	6'-0" X 8'-9"	7'-10" X 9'-7"	5'-8" X 7'-9"	5'-2"
4500H	F&R	6'-0" X 9'-5 1/2"	7'-10" X 10'-9"	5'-8" X 7'-10"	5'-2"
5000H**	F	6'-0" X 9'-7 1/2"	7'-10" X 10'-5 1/2"	5'-8" X 8'-8"	5'-2"
5000H**	F&R	6'-0" X 10'-3 1/2"	7'-10" X 11'-7"	5'-8" X 8'-8"	5'-2"

Based on car speed of 200 FPM
Cab Height = 8' -0"
For seismic applications add 3" to hoistway width

Speeds exceeding 200 FPM require additional overhead and pit depth.
Minimum pit depth is based on the use of spring buffers. Add 5" to pit depth if oil buffers are required or car speed exceeds 200 FPM

225 FPM = add 6" of overhead and 5" of pit depth
250 FPM = add 7" of overhead and 5" of pit depth
300 FPM = add 8" of overhead and 5" of pit depth
350 FPM = add 10" of overhead and 5" of pit depth

**Custom sizes. Contact your AES representative for accurate pricing.

Note: Other hoistway sizes can be accommodated. Contact AES team for further information.



LU/LA
Low Rise

The FUSION™ Line:

Our FUSION™ line of Limited Use/Limited Access elevators is an excellent option for ADA compliancy. It's also great for applications with low occupancy like schools, training facilities, churches, multi-family housing units, libraries and more!

Advantages:

- Cost effective
- Traction/Hydraulic combination
- Safe & reliable equipment
- Smooth ride with quiet operation
- Modern fixtures
- Robust long lasting elevator
- Standard & custom dimensions/interiors available; custom application encouraged

Equipment Capabilities:

- Passenger cars
- Capacities up to 1,400 lbs
- Speeds from 30-35 FPM
- Up to 50 ft travel range
- ADA compliant



ALLIANCE
ELEVATOR SOLUTIONS



LU/LA
Low Rise

SPECIFICATIONS

Power Supply Choices

220V, 1PH, 40 Amp, 60HZ
208V, 3 PH, 20 Amp, 60 HZ
600V, 3PH, 10 Amp, 60 HZ

Drive Type

2:1 Roped Hydraulic

Rated Load

1,400 lbs. weight capacity

Cab Size

Up to 18 square feet (custom available)

Cab Height

86" standard cab height (custom available)

Travel Speed

Rated speed of 30 feet/minute

Travel Height

Up to 50 feet of travel, depending on local Codes

STANDARD FEATURES

- ASME A17.1-2013 / CSA B44-13 Code Compliance
- Automatic or key control
- Commercial-grade fixtures & controls
- Braille/Tactile controls
- Illuminated push buttons
- Emergency lighting
- Reinforced, structural steel sling
- Rigid steel cab construction
- Fire rated automatic sliding doors
- Fire rated plastic-laminate wall panels
- Self-leveling
- Stainless steel handrail
- Emergency stop alarm
- Line rupture valve
- Emergency lowering/battery back-up system
- Hands-free ADA phone
- 36-month limited warranty
- Superior installation & technical support

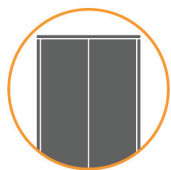
OPTIONAL FEATURES

- Inline, Thru-cab or 90-degree cab configurations
- Stainless steel & custom laminate cab finishes
- License/certificate frame
- Security options for floor access control

STANDARD DIMENSIONS

- 42" x 60" Inline Cab
- 42" x 60" Thru Cab
- 48" x 54" Inline Cab
- 48" x 54" Thru Cab
- 51" x 51" 90-Degree

*Custom dimensions available



ENTRANCES & DOORS

STANDARD & CUSTOM OPTIONS

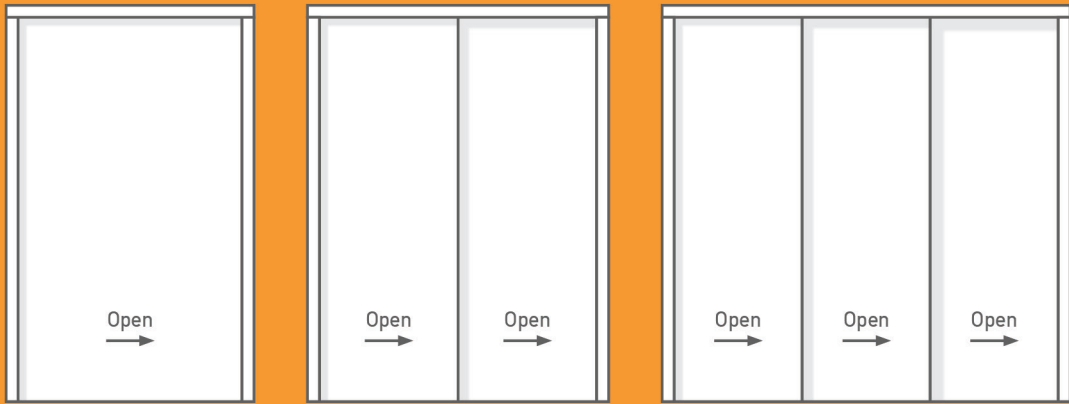


ENTRANCE OPTIONS

Our entrances are well-constructed and offer advantages and exclusivities not found anywhere else in the industry, including the widest range of opening and transom sizes.

ENTRANCE OPTIONS

Side Opening

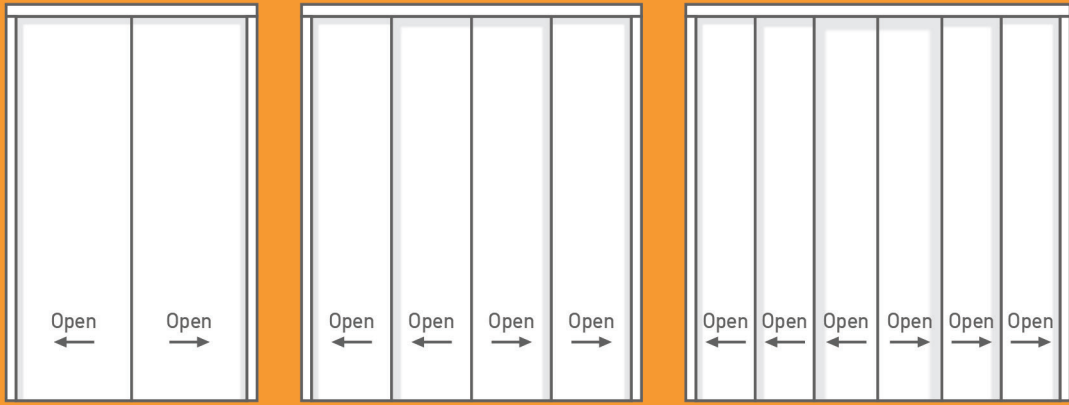


1 Speed

2 Speed

3 Speed

Center Opening



1 Speed

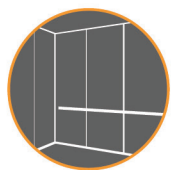
2 Speed

3 Speed

COLOR OPTIONS

Powder Coat - Contact AES team for more options.

RAL 9003	RAL 9002	RAL 7044	RAL 7038	RAL 7045
Signal White RWS3-00002	Gray White RWS3-60002	Silk Gray RAS3-00027	Agate Gray RAS3-00010	Telegray RAS3-00024
RAL 5024	RAL 5002	RAL 5003	RAL 5013	RAL 7011
Pastel Blue RLS3-60003	Ultramarine Blue RLS3-20001	Sapphire Blue RLS3-20003	Cobalt Blue RLS3-20011	Iron Gray RAS3-00018
RAL 1015	RAL 1019	RAL 7006	RAL 8014	RAL 8019
Light Ivory RHS4-00001	Beige Gray RHS3-00005	Gray Beige RHS3-00006	Sepia Brown RNS3-00002	Gray Brown RNS3-00004
RAL 3003	RAL 3005	RAL 6005	RAL 6009	RAL 9005
Ruby Red RRS3-00003	Wine Red RRS3-60002	Moss Green RGS3-80002	Fir Green RGS3-00025	Jet Black RGS3-60004



CAB INTERIORS

STANDARD & CUSTOM OPTIONS

CAB OPTIONS

We offer cabs that fit any budget or design style. Below are some of our most popular options, but each panel can be mixed and matched to suit your needs, or customized with any material desired.

CAB STYLES

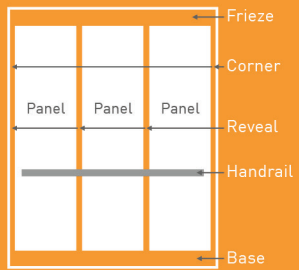


Laminate Hang On Panels (Formica® 8844 Aged Ash Shown)



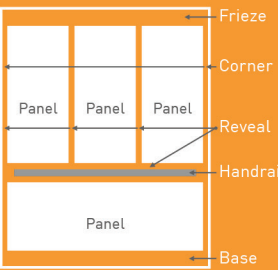
Lamican (Formica® 8845 Bleached Legno Shown)

STANDARD

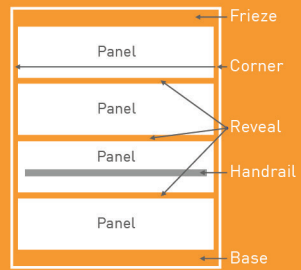


Standard

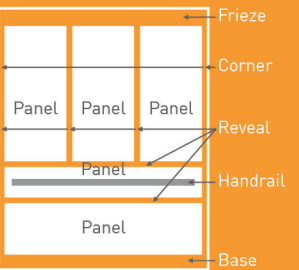
CUSTOM



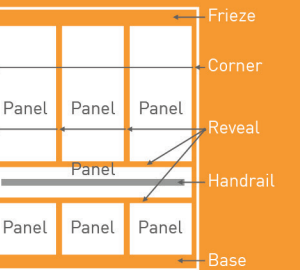
Option A



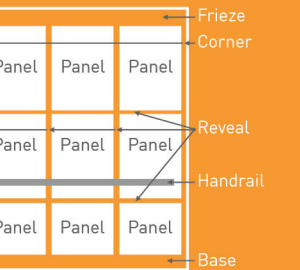
Option B



Option C



Option D



Option E

LAMINATE OPTIONS

Contact AES team for more options.

949 White	6696 Carrara Bianco	9285 White Twill	9310- White Marble Herringbone	8841 White Ash	8826 Neutral Twill	912 Oyster Gray	927 Folkstone	6697 Argento Romano	9476 White Ice Granite
9306 White Bardiglio	7406 Mamara Beige	9497 Silver Quartzite	7732 Butterum Granite	8844 Aged Ash	5883 Pecan Woodline	8845 Bleached Legno	7747 Pencil Wood	756 Natural Maple	86992 Natural Maple
5884 Chestnut Woodline	8842 Weathered Ash	9524 Umbra Oak	8906 Danish Maple	7012 Amber Maple	5886 Sorrel Cherry	961 Fog	837 Graphite	8848 lackened Legno	909 Black

RIGIDIZED METALS

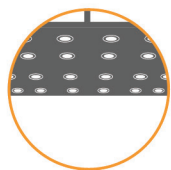
For a comprehensive selection, visit Rigidized.com.

ACC 4i	4 LB	5WL®	2WL®	3 ND	1 CS	60 LTH	Linen®	Square	Sand-Tex®

**Additional charges may apply per your selection
Please contact an AES team member for accurate pricing.

AllianceElevator.net | 888-960-5596 | Sales@AllianceElevator.net

*Only available in Stainless Steel



CEILINGS & HANDRAILS

STANDARD & CUSTOM OPTIONS

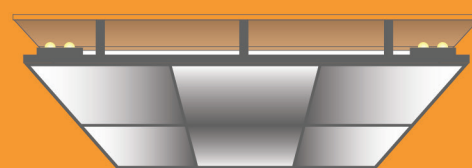


CEILING OPTIONS

From vandal resistant lighting to wood core drop ceilings with mini LED downlights, our ceiling options are virtually endless. Here are some of our most popular options, but just let us know if you have a custom idea in mind.



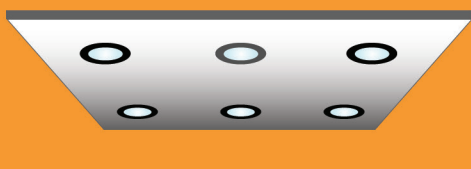
LED lights with lexan diffusers in drop ceiling*



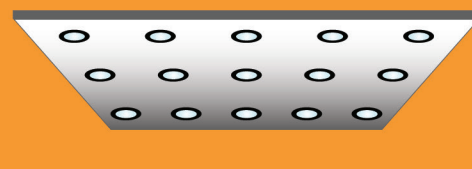
Drop ceiling with perimeter lights



LED lights recessed in canopy



LED downlights recessed in canopy



Mini LED downlights recessed in canopy



LED downlights in stainless steel drop ceiling

HANDRAILS

Our wide selection of standard and custom handrails allows us to match any style, or provide added functionality to your cab. Handrails are available as Provincial/Ornamental, Single or Multiple Rows, and on Single or Multiple Walls.



Flat Handrails with or without returns*
• SS #4 Flat Bar (3" x 3/8" or 4" x 1/4")
• Bronze #4, (2" x 3/8")



Round Handrails with or without returns
• SS #4 Round Tube (1 1/2" or 2" diameter)
• Bronze #4 Round Tube (1 1/2" or 2" diameter)



Bumper rails (SS #4 Flat Bar 6" x 1/4")

* Standard Options **Additional charges may apply per your selection. Please contact an AES team member for accurate pricing.



FIXTURES

STANDARD & CUSTOM OPTIONS

FIXTURE OPTIONS

Our fixtures come in a variety of styles, offering endless options of shapes and sizes, materials and finishes. Below are some of our most popular options, but just let us know if you're looking for a custom option.

STANDARD FIXTURE



Universal
Offers more features than any other manufacturer's line of standard fixtures.

Fixture Style: Universal
Push button: PB-1, Plastic
Keyswitch Style: PB-1, Projecting
Indicator Style: PB-1, Illuminated
Coverplate: 11 Ga. Stainless, #4 Brushed, 150 Grit 302/304

STANDARD VANDAL RESISTANT FIXTURE



Bruiser
Designed and manufactured for rugged, unmatched strength and durability.

Fixture Style: Bruiser
Push button: PB-23, Metal
Keyswitch Style: PB-1, Projecting
Indicator Style: PB-1, Illuminated
Coverplate: 11 Ga. Stainless, #4 Brushed, 150 Grit 302/304

CUSTOM FIXTURE STYLES



Security
Built for high traffic installations, designed for hard use year after year.

As Shown:

- #4 Brushed 304 Stainless Steel
- Square Braille
- PB-13, PB-14 push buttons



Premier
One of our most versatile fixtures, offered with rectangular or elliptical faceplate designs combined with a wide choice of push buttons.

As Shown:

- #4 Brushed 60/40 Muntz/Bronze
- Oval surround Braille
- PB-21 push buttons



Pinnacle
The unique frosted appearance and ultra brilliant illumination make this fixture the pinnacle of all fixtures.

As Shown:

- #4 Brushed 60/40 Muntz/Bronze
- Round Braille
- PB-36 push buttons



Decorator
A modular design with tough and reliable push buttons, key switches and emergency operation components.

As Shown:

- #4 Brushed 304 Stainless Steel
- Square Braille
- PB-7 push buttons



Prestige
An ultra sleek appearance combined with unsurpassed durability.

As Shown:

- #4 Brushed 304 Stainless Steel
- Square Braille
- PB-35 push buttons



Nema 4X
Stands up to rain, sleet, snow, dirt, dust and corrosive environments year after year.

As Shown:

- #4 Brushed 304 or 316 Stainless Steel
- Square Braille
- Stainless steel buttons

SURFACE MOUNT FIXTURE STYLES



I-LINE® & Premier I-LINE®
Ideal for ADA and retrofit projects, these hinged fixtures offer quick installation and rapid service capabilities.

The premier I-LINE® offers additional finishes and button styles.

SWING FIXTURE STYLES



Swing Return & Car Station Combination
A complete swing return and car station combined into an easy to install, one piece unit.

As Shown:

- #4 Brushed 304 Stainless Steel
- Square Braille
- PB-1 push buttons



Mini Swing Retrofit
Designed for direct OEM replacement, our mini swing retains the original back box, reducing installation time and field labor costs, and works with any controller.

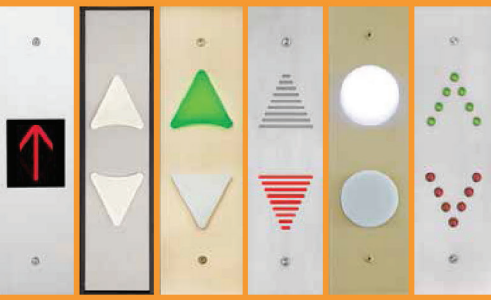
HALL STATIONS, LANTERNS & POSITION INDICATORS

Available in a variety of shapes and sizes, metal finishes, engraving, push button and illumination options; we have a design to fit your needs while meeting or exceeding standard and special building compliance codes.

Hall stations



Lanterns



Position Indicators



Push Buttons - For a comprehensive selection, contact your Alliance rep.

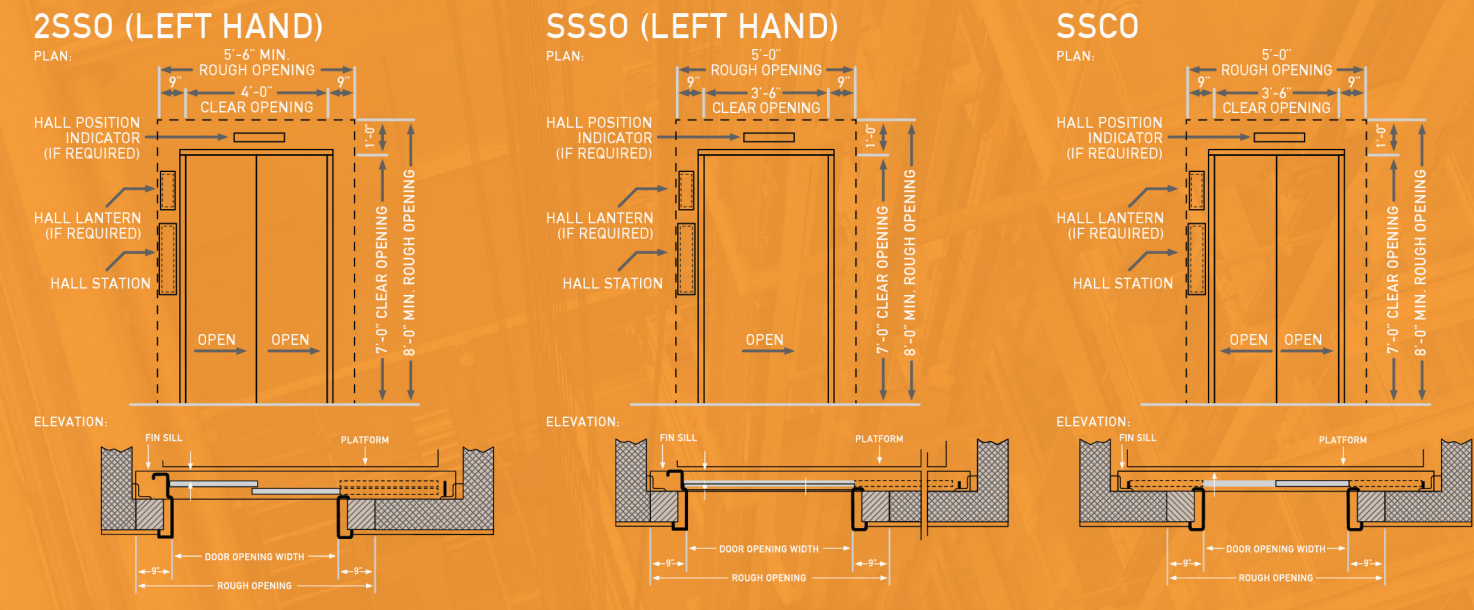


Finish



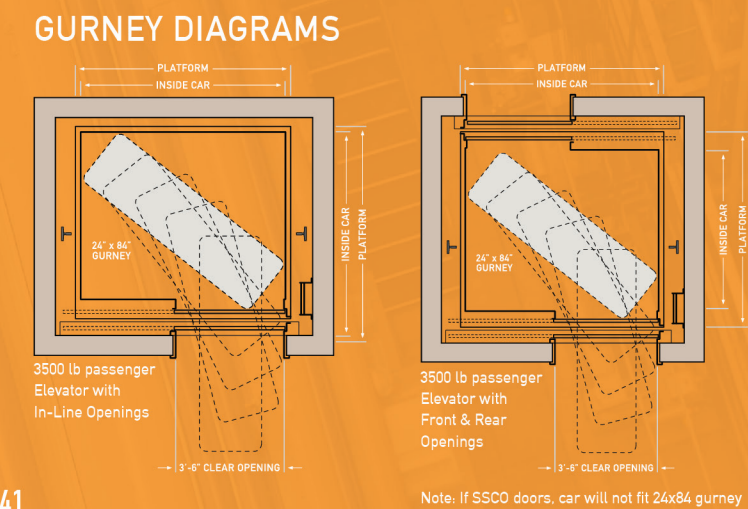
ALLIANCE LINGO

Elevator lingo is confusing. Is it a right hand door or a left hand door? Does the cab need to be gurney or ADA compliant? We understand not all of us grew up in the trade, and have put together the following to help take the guesswork out of some common elevator terminology. So go ahead, talk like a pro, we've got you covered (or just reach out to AES and we'll help you through it).



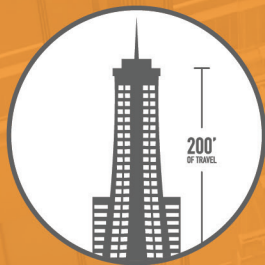
MAXIMUM* INSIDE NET PLATFORM AREAS FOR THE VARIOUS RATED LOADS

Rated Load (lb)	Inside Net Platform Area (ft²)
500	7.0
600	8.3
700	9.6
1,000	13.25
1,200	15.6
1,500	18.9
1,800	22.1
2,000	24.2
2,500	29.1
3,000	33.7
3,500	38
4,000	42.2
4,500	46.2
5,000	50.0
6,000	57.7
7,000	65.3
8,000	72.9
9,000	80.5
10,000	88.0
12,000	103.0
15,000	125.1
18,000	146.9
20,000	161.2
25,000	196.5
30,000	231.0





MRL FAMILY



OVERHEAD
TRACTION



HYDRAULIC



FREIGHT



MODERNIZATION



LU/LA

ALLIANCE

ELEVATOR SOLUTIONS

ELEVATORS; SIMPLIFIED

AllianceElevator.net | 888-960-5596 | Sales@AllianceElevator.net