

AES PLANNING GUIDE



ALLIANCE
ELEVATOR SOLUTIONS



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THANK YOU!

On behalf of the Alliance Elevator Solutions (AES) 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. Our AlliancePRO™ 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 AES'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 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 in 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/CET courses for architects and consultants, available both face-to-face and online
- 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



BASED IN NORTH AMERICA

We are proudly based in North America.



Alliance Elevator Solutions

Customer Journey



1. Qualify Lead/ Receive Accurate Quote

STANDARD PACKAGES*

- Log into the ToolBOX™
- Retrieve Instant Quote

CUSTOM PACKAGES*

- 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

STANDARD PACKAGES

- Open Order Form via the ToolBOX™
 - Complete Order Form
 - Submit Order
- The AES team is automatically notified

CUSTOM PACKAGES*

- Customer sends 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

STANDARD PACKAGES: Within 24 Hours
CUSTOM PACKAGES: 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

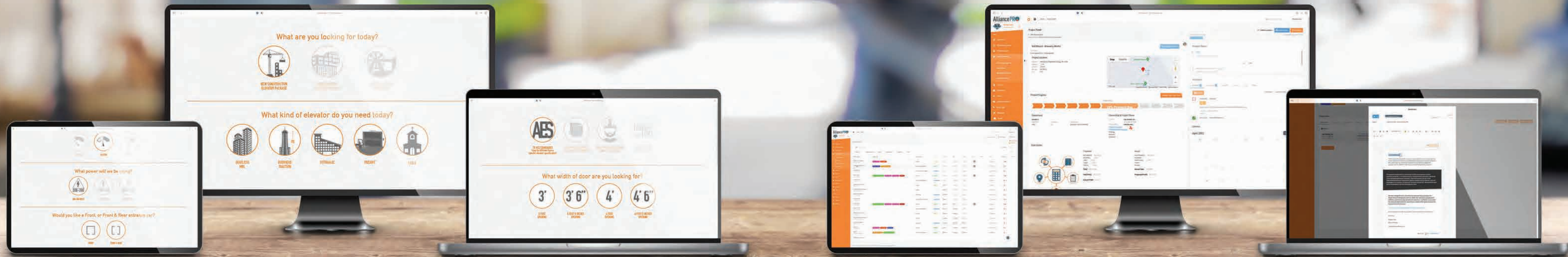
- Photos and Shipping documents uploaded to the ToolBOX™
- Customer POC is contacted 24 hours prior to delivery

*Standard Packages can be avoied via the configurator; Custom Packages cannot.



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 MANAGEMENT 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



Instant visibility on all projects in manufacturing



One central location for project related documents



Aerial site locator



Time-saving email templates



Easy to track change log



Project calendar with prepopulated activities



Cost center



Contact manager



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 hospital 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'-3"	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'-3"	1 ¼"	5"
3000	F	SSSO 42"	7'-0" x 5'-6"	8'-4" x 6'-2"	6'-8" x 4'-6"	1 ¼"	5"
3000	F&R	SSSO 42"	7'-0" x 5'-10 ½"	8'-4" x 6'-11"	6'-8" x 4'-6"	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'-5"	1 ¼"	5"
4000**	F&R	SSSO 42"	8'-0" x 6'-7 ½"	9'-4" x 7'-8"	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'-4" x 9'-6 ½"	5'-8" x 7'-9"	1 ¼"	6 ½"
4500H	F&R	2SSO 48"	6'-0" x 9'-4 ½"	7'-4" x 10'-9"	5'-8" x 7'-9"	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"

*All calculations/dimensions shown are estimates only and are subject to change based on project specifics.

APPROXIMATE CLEAR INSIDE DIMENSIONS OF CAB

Width = 4" less than Platform width

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



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 hospital 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 1/4"	5"
2100	F&R	SSSO 36"	6'-0" x 5'-7 1/2"	7'-4" x 6'-8"	5'-8" x 4'-3"	1 1/4"	5"
2500	F	SSSO 42"	7'-0" x 5'-1"	8'-4" x 5'-9"	6'-8" x 4'-3"	1 1/4"	5"
2500	F&R	SSSO 42"	7'-0" x 5'-7 1/2"	8'-4" x 6'-8"	6'-8" x 4'-3"	1 1/4"	5"
3000	F	SSSO 42"	7'-0" x 5'-6"	8'-4" x 6'-2"	6'-8" x 4'-6"	1 1/4"	5"
3000	F&R	SSSO 42"	7'-0" x 5'-10 1/2"	8'-4" x 6'-11"	6'-8" x 4'-6"	1 1/4"	5"
3500	F	SSSO 42"	7'-0" x 6'-3"	8'-4" x 6'-11"	6'-8" x 5'-5"	1 1/4"	5"
3500	F&R	SSSO 42"	7'-0" x 6'-7 1/2"	8'-4" x 7'-8"	6'-8" x 5'-5"	1 1/4"	5"
4000**	F	SSSO 42"	8'-0" x 6'-3"	9'-4" x 6'-11"	7'-8" x 5'-5"	1 1/4"	5"
4000**	F&R	SSSO 42"	8'-0" x 6'-7 1/2"	9'-4" x 7'-8"	7'-8" x 5'-5"	1 1/4"	5"
4000H	F	2SSO 48"	6'-0" x 8'-5"	7'-4" x 9'-2 1/2"	5'-8" x 7'-5"	1 1/4"	6 1/2"
4000H	F&R	2SSO 48"	6'-0" x 9'-0 1/2"	7'-4" x 10'-4"	5'-8" x 7'-5"	1 1/4"	6 1/2"
4500H	F	2SSO 48"	6'-0" x 8'-9"	7'-4" x 9'-6 1/2"	5'-8" x 7'-9"	1 1/4"	6 1/2"
4500H	F&R	2SSO 48"	6'-0" x 9'-4 1/2"	7'-4" x 10'-9"	5'-8" x 7'-9"	1 1/4"	6 1/2"
5000H**	F	2SSO 48"	6'-0" x 9'-8"	7'-6" x 10'-7"	5'-8" x 8'-8"	1 1/4"	6 1/2"
5000H**	F&R	2SSO 48"	6'-0" x 10'-4"	7'-6" x 11'-7"	5'-8" x 8'-8"	1 1/4"	6 1/2"

OVERHEAD REQUIRED - QUICK CALCULATION

	SINGLE STAGE		
	100 FPM	125 FPM	150 FPM
Pit Depth	4'-0"	4'-0"	4'-0"
Overhead	12'-8"	12'-9"	13'-6"
Top Over Travel	4"	5"	10"
Bottom Over Travel	6"	7"	7"
Travel	13'-10"	13'-7"	24'-2"
Cab Height	8'-0"	8'-0"	8'-0"

*All calculations/dimensions shown are estimates only and are subject to change based on project specifics.

APPROXIMATE CLEAR INSIDE DIMENSIONS OF CAB

Width = 4" less than Platform width

Depth = Front Open Only

- SSSO & CO Doors = Platform Depth Less 10"
- 2SSO Doors = Platform Depth less 11 1/2"

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 1/4" 12# mils

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.



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 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 - 4,500 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

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2100	F	SSSO 36"	6'-0" x 5'-1"	7'-4" x 5'-9"	5'-8" x 4'-3"	1 1/4"	5"
2100	F&R	SSSO 36"	6'-0" x 5'-7 1/2"	7'-4" x 6'-8"	5'-8" x 4'-3"	1 1/4"	5"
2500	F	SSSO 42"	7'-0" x 5'-1"	8'-4" x 5'-9"	6'-8" x 4'-3"	1 1/4"	5"
2500	F&R	SSSO 42"	7'-0" x 5'-7 1/2"	8'-4" x 6'-8"	6'-8" x 4'-3"	1 1/4"	5"
3000	F	SSSO 42"	7'-0" x 5'-6"	8'-4" x 6'-2"	6'-8" x 4'-6"	1 1/4"	5"
3000	F&R	SSSO 42"	7'-0" x 5'-10 1/2"	8'-4" x 6'-11"	6'-8" x 4'-6"	1 1/4"	5"
3500	F	SSSO 42"	7'-0" x 6'-3"	8'-4" x 6'-11"	6'-8" x 5'-5"	1 1/4"	5"
3500	F&R	SSSO 42"	7'-0" x 6'-7 1/2"	8'-4" x 7'-8"	6'-8" x 5'-5"	1 1/4"	5"
4000**	F	SSSO 42"	8'-0" x 6'-3"	9'-4" x 6'-11"	7'-8" x 5'-5"	1 1/4"	5"
4000**	F&R	SSSO 42"	8'-0" x 6'-7 1/2"	9'-4" x 7'-8"	7'-8" x 5'-5"	1 1/4"	5"
4000H	F	2SSO 48"	6'-0" x 8'-5"	7'-4" x 9'-2 1/2"	5'-8" x 7'-5"	1 1/4"	6 1/2"
4000H	F&R	2SSO 48"	6'-0" x 9'-0 1/2"	7'-4" x 10'-4"	5'-8" x 7'-5"	1 1/4"	6 1/2"
4500H	F	2SSO 48"	6'-0" x 8'-9"	7'-4" x 9'-6 1/2"	5'-8" x 7'-9"	1 1/4"	6 1/2"
4500H	F&R	2SSO 48"	6'-0" x 9'-4 1/2"	7'-4" x 10'-9"	5'-8" x 7'-9"	1 1/4"	6 1/2"
5000H**	F	2SSO 48"	6'-0" x 9'-8"	7'-6" x 10'-7"	5'-8" x 8'-8"	1 1/4"	6 1/2"
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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"	4'-0"	4'-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 1/2"

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 1/2" 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 & Hospital
Cars Available



MRL FAMILY

The ADVANTAGE MRL™ (Hydraulic)

KEY IPA COMPONENTS (IN-PIT ARRANGEMENT)



CONTROLLER ARRANGEMENTS (SRU BOARD 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 10". 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 quiet 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 10" wall thickness for hall box
- More costly of the two hydraulic MRL options

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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

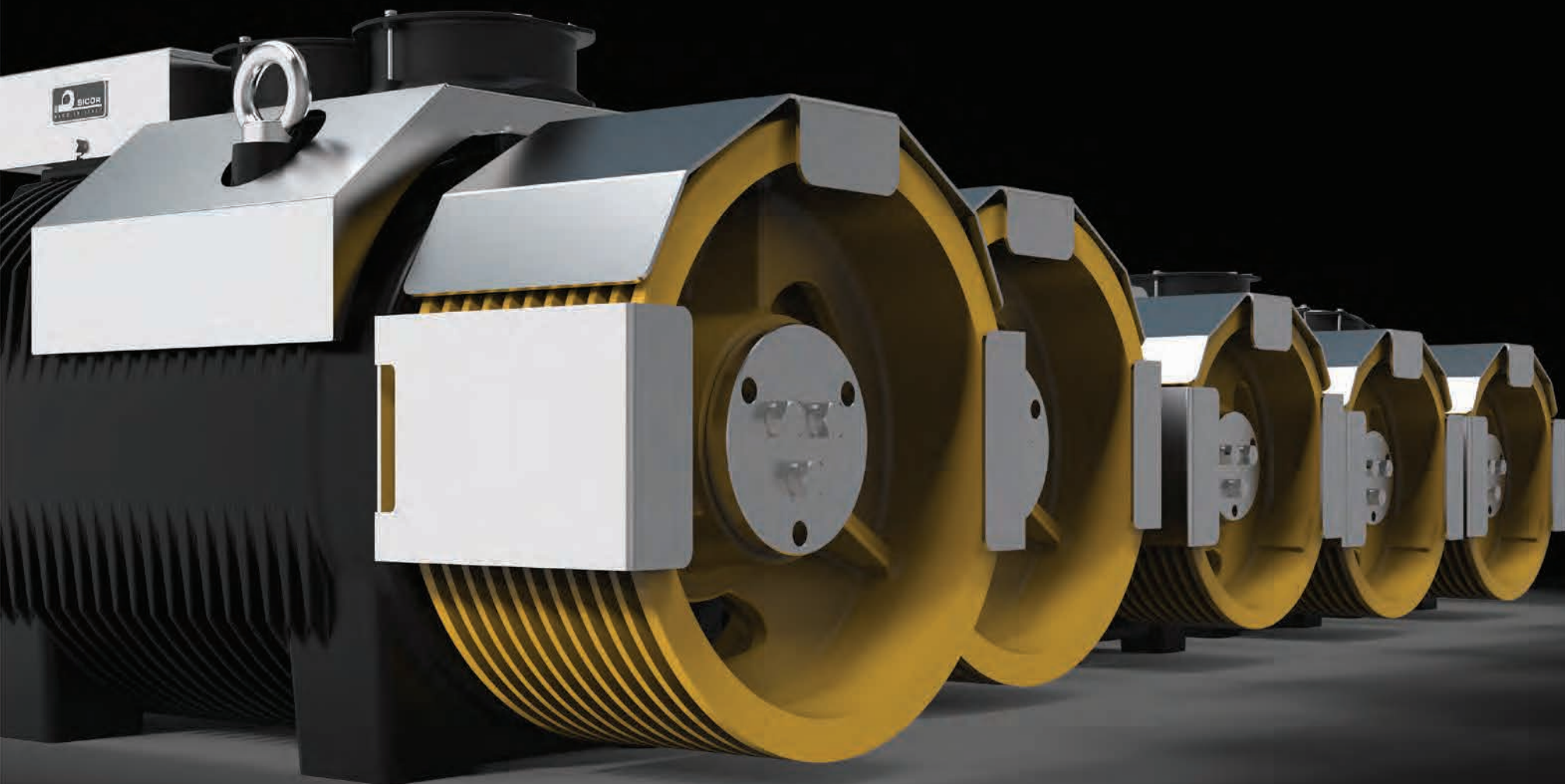
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MRL FAMILY

The EDGE_{SL}™



INTRODUCING THE EDGE_{SL}™

Alliance Elevator Solutions has an exclusive agreement with Sicor Italy, allowing us to offer you an exceptional product we proudly call The EDGE_{SL}™ (Slim Line). This innovative nonproprietary arrangement was specifically engineered to excel in the competitive multinational MRL traction market. Featuring a remarkable 12'-10" overhead and a sleek European aesthetic, the EDGE_{SL}™ is your key to dominating the new construction traction MRL market.

SICOR

Founded in 1981 as a manufacturer of elevator lifting machines, Sicor has since developed a comprehensive range of both geared and gearless machines, all skillfully produced at their Rovereto, Italy, plant.



200,000 Sq. Ft. Highly Automated Factory



Over 1 Million Machines Sold Worldwide since Inception



Capacity to Produce 45,000 Machines a Year

CURRENTLY AVAILABLE:



2,100 lb



2,500 lb



3,500 lb

All capacities (2,100 lb - 4,500 lb) will be available following the completion of the initial beta testing period.

- Machine, door operator, elevator speed, and published hoistway dimensions cannot be altered.
- All machine packages use high-performance, readily available 8 mm steel rope.

SUPPLIERS AVAILABLE FOR THE EDGE_{SL}™:

- Machine/Structural package: Sicor, built exclusively for AES
- Controllers: Smartrise or Alpha
- Door Operator: USDE - Model: Premium
- Cab: Sicor, built exclusively for AES (304 #4 Stainless Steel Standard)
- Entrances: USDE
- Fixtures: Innovation or MAD

EXCLUSIVE AGREEMENT INCLUDES:



Most Competitively Priced Traction MRL Ever Offered by AES



12-Week Manufactured Lead Time



Complete Package Ships from AES's Greencastle, Pennsylvania Facility



Instant Online Quoting and Ordering



Industry-Leading Warranty

- 5 Year: Machine (Sicor) Controllers (Alpha or Smartrise)
- 2 Year: All Other Major Components



GAME-CHANGING FEATURES FOR THE INDEPENDENT ELEVATOR CONTRACTOR



Hoistway Dimensions

Minimize hoistway space while maximizing clear interior dimensions with the first nonproprietary elevator designed to meet multinational hoistway standards.

Load Capacity (lb)	Cab Width		Cab Depth			Car Height	Door Type	Door Width	Door Height	Hoistway Width	Hoistway Depth		Speed	Clear Overhead	Pit Depth
	Stainless Steel #4	3/4" Thick Hanging Panels	Stainless Steel #4 (Front Only & Front & Rear)	3/4" Thick Hanging Panels (Front Only)	3/4" Thick Hanging Panels (Front & Rear)						Front Only	Front & Rear			
2100	5'-4 1/2"	5'-3"	4'-8 13/16"	4'-8 1/16"	4'-8 13/16"	7'-9"	1SCO	3'-0"	7"	7'-7"	5'-11"	6'-6"	150 FPM	12'-10"	5'
2500	6'-4 1/2"	6'-3"	4'-8 13/16"	4'-8 1/16"	4'-8 13/16"	7'-9"	1SCO/1SSO	3'-6"	7"	8'-6"	5'-11"	6'-6"	150 FPM	12'-10"	5'
3000	Coming Soon														
3500	6'-4 1/2"	6'-3"	5'-7 5/16"	5'-7 1/4"	5'-8"	7'-9"	1SCO/1SSO	3'-6"	7"	8'-6"	6'-11"	7'-5 3/4"	150 FPM	12'-10"	5'
4000	Coming Soon														
4500	Coming Soon														

Travel height up to 150' without compensation chain. Seismic areas require 2" more hoistway width. Maximum wall covering weight 2.91 lbs/ft². Maximum floor covering weight 11.88 lbs/ft².

FULLY NONPROPRIETARY PACKAGE DESIGNED AS A COMPLETE SOLUTION

Together with Sicor, we have designed another first for our industry — a fully nonproprietary package designed as a complete solution. Our groundbreaking solution includes:



Detailed Work Instruction & Specialized Tooling

Comprehensive installation manual coupled with specialized tooling to assist in installations.



Common Hardware and Spare Parts

Shared components across different system capacities, plus spare parts in stock and ready to ship from Greencastle, PA facility.



Seamless Platform/Cab Integration

Platform seamlessly integrated to accept cab. Utilizes electro-galvanized sheet metal walls and cathodic painted structural components for superior anticorrosion protection.



Innovative Cab Ceiling and Top of Car

Cab ceiling/canopy engineered to incorporate LED lighting, fan, built in trough, and inspection station, facilitating faster installs. Additionally, robust nonskid aluminum treadplate top-of-car platform, complete with solid top-of-car railing, ensures enhanced safety.



Quick-Fastening Cab Wall System

Rapid-fastening cab wall panel system reduces installation time and number of tools required to install cab. Standard with sleek #4 stainless steel walls; aluminum honeycomb wall panels available for more elegant interior finish.



Adjustable Cab Shell

Effortlessly adjustable cab shell and sill to accommodate various floor heights.



Cab Transom Designed for Door Operator

Cab transom designed specifically for door operator.



Optimized Inverter Placement

Inverter located in shaft head near machine, reducing electromagnetic interference and simplifying installation process.



Adjustable Buffers

Designed for pit depth inconsistencies and increased installation efficiency.

EDGE™ AND EDGE^{SL}™ COMPARISON

	EDGE™	EDGE ^{SL} ™
Price Point	✗	✓
Shorter Lead Time	✗	✓
Quicker Installation Time	✗	✓
Lower Overhead	✗	✓
Flexibility with Interior Finishes	✓	✗
Flexibility with Elevator Speeds	✓	✗
Flexibility with Hoistway Dimensions	✓	✗
COMPONENTS		
Machine	Torin	Sicor
Door Operator	Flexible	USDE



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 hospital cars
- Capacities from 2,100 - 3,500 lb
- Speeds from 100 FPM to 350 FPM
- Travel up to 50 ft

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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". Due to space limitations Rail Supported Elevator use compensation chain to avoid use of the counterweight guard.
- For seismic zone 2 and and up, add 2" to hoistway width to comply with Code requirements.
- 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

	P2100		P2500		P3000		P3500	
Speed	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 hospital cars
- Capacities from 2,100 - 3,500 lb
- Speeds from 100 FPM to 350 FPM
- Travel up to 200 ft

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

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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 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". Due to space limitations Frame Building Supported Elevator use compensation chain to avoid use of the counterweight guard.
- For seismic zone 2 and and up, add 2" to hoistway width to comply with Code requirements.
- 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 Pit	O.H.	P2500 Pit	O.H.	P3000 Pit	O.H.	P3500 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"

- Frame Building 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 hospital cars
- Capacities from 2,100 - 5,000 lb
- Speeds from 100 FPM to 500 FPM
- Travel up to 300 ft

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



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'-4 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

- Hoistway dimensions are minimum clear inside requirements. Shorter installation times can be obtained by increasing these dimensions by up to 2". Due to space limitations Building Supported Elevator use compensation chain to avoid use of the counterweight guard.
- For seismic zone 2 and and up, add 2" to hoistway width to comply with Code requirements.
- 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.

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

Speed	P2100, P2500, P3000, P3500		P4000, S4000, S4500, S5000	
	Pit	O.H.	Pit	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.

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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 hospital 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 ½"	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 ½"	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 ½"	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 ½"	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'-4 ½"	7'-10" X 10'-9"	5'-8" X 7'-10"	5'-2"
5000H**	F	6'-0" X 9'-7 ½"	7'-10" X 10'-5 ½"	5'-8" X 8'-8"	5'-2"
5000H**	F&R	6'-0" X 10'-3 ½"	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.



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

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 12'-0"	8"	10'-2" x 12'-8"	8'-0" x 11'-5"	11"
8000	F&R	8'-0"	8'-4" x 12'-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 18'-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"

Note:
All AES Freight packages are custom, the dimensions supplied herein are for guideline purposes and assumed to be of a borehole design. Holeless designs are available.



MODERNIZATION

ReFIT™ & ReVAMP™

MODERNIZATION, SIMPLIFIED.

MODERNIZATION, SIMPLIFIED.

Your time is valuable. Too valuable to waste on engineering, quoting, ordering, and project managing your next modernization project—talk about a time suck! What if there was a simpler way?

Alliance Elevator Solutions has simplified the elevator modernization process by offering two unique engineered modernization solutions, both utilizing a proven, independently owned, nonproprietary supply chain.

ReFIT™

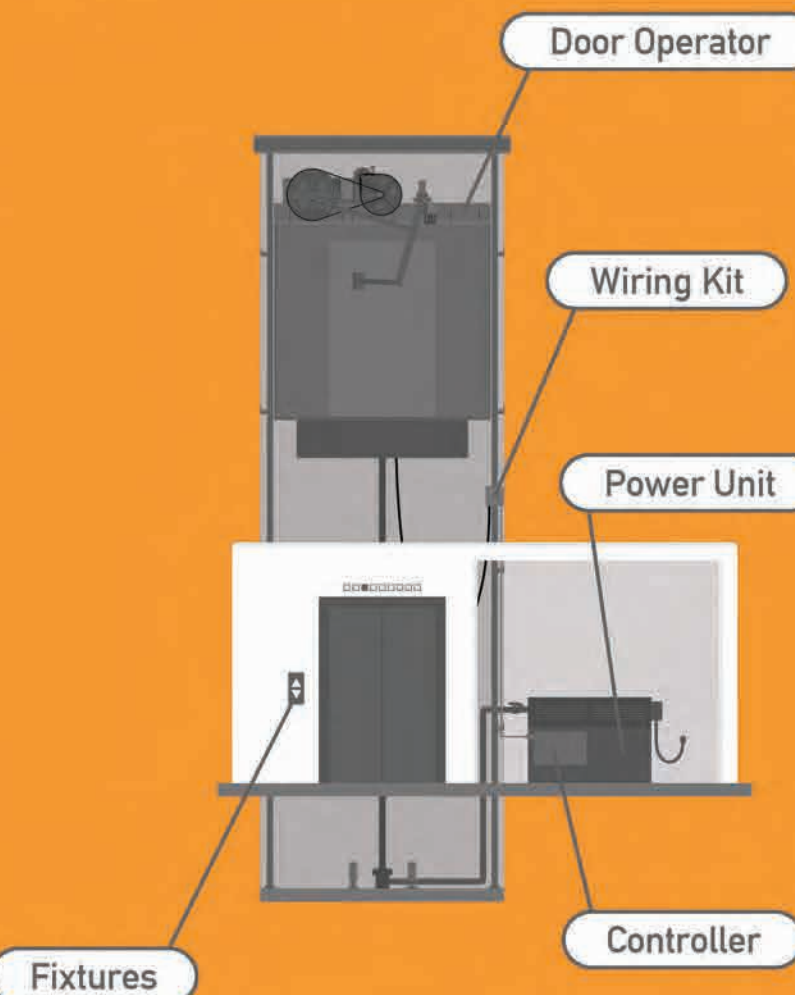
ReFIT™

ReFIT™ by AES utilizes 5 pre-engineered hydraulic assemblies (controller, power unit, fixtures, door operator, and wiring kit) designed to replace the exact elevator equipment being modernized. Offering instant quoting, online ordering, quick print turn-around, and one-truck delivery with the shortest lead times in the industry, ReFIT™ is the preferred option when the simplest solution is the best solution.

ReVAMP™

ReVAMP™

When the best solution is a specific solution, choose ReVAMP™ by AES. For these more specialized projects, lean on Alliance's extensive experience and expertise. Like you, AES isn't tied to a specific supplier, and has the freedom to choose the best supplier for your specific application. When details make the difference, and the specification needs to be followed to the letter, rely on AES for your elevator modernization!





MODERNIZATION

ReFIT™ & ReVAMP™



ReFIT™ BY AES

The simplest way to modernize a hydraulic elevator.



PRE-ENGINEERED

Designed to seamlessly fit into existing elevator makes and models undergoing modernization.



INTUITIVE TECHNOLOGY

Instant online quotes, ordering, and project management through AES's ToolBOX™.



TIME-SAVING FORMS

Save time with our easy-to-use survey forms.



CHOICES

Choose from a selection of suppliers. Here are just a few of the options we offer:

- Controllers: Smartrise or Alpha
- Door Operators: GAL, Wittur, or Fermator
- Fixtures: Innovation or MAD

ReVAMP™ BY AES

When your modernization project requires more than a ReFIT™, call our MOD Experts!



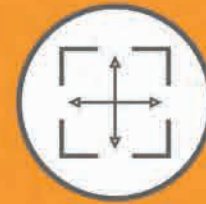
EXPERIENCE

Our Modernization Team has the experience you need to ensure your project's success. With decades of modernization experience between them, including more than 15 years hands-on Elevator Mechanic experience, our MOD team speaks the language and knows their stuff. This allows us to delve into the nitty-gritty and discuss your modernization project on the deeper level you require.



TIMELY QUOTES

As the hardest working folks in the industry, we know you have deadlines to meet and a million other things to do. That's why our Modernization Team has streamlined AES's modernization process and meticulously crafted a simple-to-use interactive survey form. If you checked the box on the survey form, then it's on your quote. If it's not, then it's on AES—Guaranteed! Now that's the kind of guarantee that ensures you get the restful sleep you deserve.



ANY PROJECT

Any size, any component, any type (even traction!)—no modernization project is too big or too small for AES. All projects are equally important to us, and we will wholeheartedly devote our time to your quote. If your project qualifies*, we'll even do your material survey. Talk about MODERNIZATION, SIMPLIFIED.

*Project qualification is AES's subjective decision, and travel expenses will be at the cost of the elevator contractor





ENTRANCES & DOORS

STANDARD & CUSTOM OPTIONS

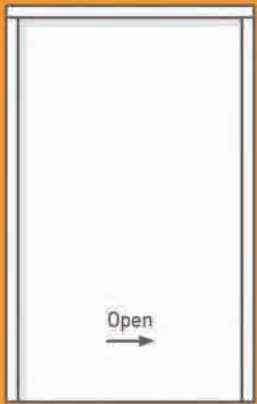


ENTRANCE OPTIONS

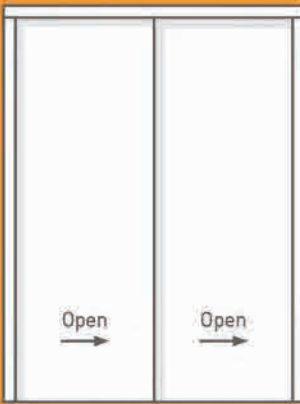
Our entrances are well-constructed and offer advantages and exclusivities not found anywhere else in the industry, including the widest range of opening and transom sizes.

ENTRANCE OPTIONS

Side Opening



1 Speed



2 Speed

Center Opening



1 Speed



2 Speed

COLOR OPTIONS

Powder Coat - Contact AES team for more options.

 RAL 9001 Signal White RWS3-00002	 RAL 9002 Gray White RWS3-60002	 RAL 7044 Silk Gray RAS3-00027	 RAL 7038 Agate Gray RAS3-00010	 RAL 7045 Telegray RAS3-00024
 RAL 5024 Pastel Blue RLS3-60003	 RAL 5002 Ultramarine Blue RLS3-20001	 RAL 5003 Sapphire Blue RLS3-20003	 RAL 5013 Cobalt Blue RLS3-20011	 RAL 7011 Iron Gray RAS3-00018
 RAL 1015 Light Ivory RHS4-00001	 RAL 1019 Grey Beige RHS3-00005	 RAL 7006 Beige Grey RHS3-00006	 RAL 8014 Sepia Brown RNS3-00002	 RAL 8019 Gray Brown RNS3-00004
 RAL 3003 Ruby Red RRS3-00003	 RAL 3005 Wine Red RRS3-60002	 RAL 6005 Moss Green RGS3-80002	 RAL 6009 Fir Green RGS3-00025	 RAL 9005 Jet Black RGS3-60004

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



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

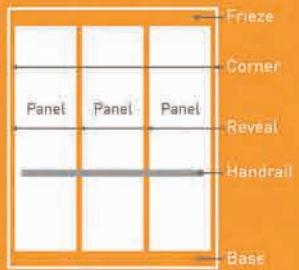


Laminate Hang On Panels (Formica® 8844 Aged Ash Shown)



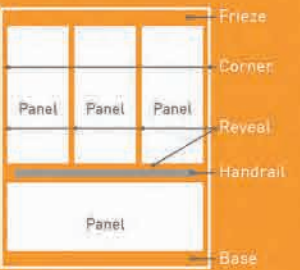
Applied Laminate (Formica® 8845 Bleached Legno Shown)

STANDARD

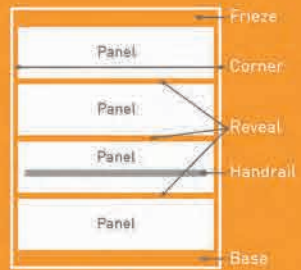


Standard

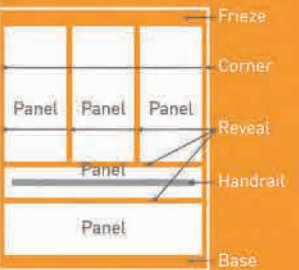
CUSTOM



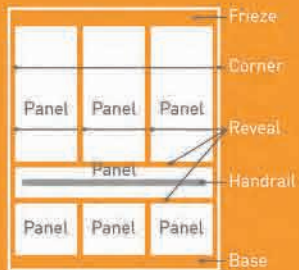
Option A



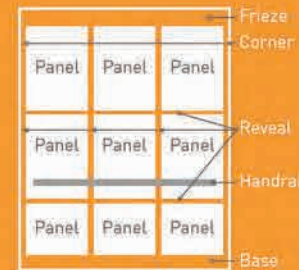
Option B



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 Hard Rock Maple
5884 Chestnut Woodline	8842 Weathered Ash	8916 Blackened Fiberwood	8906 Danish Maple	7012 Amber Maple	5886 Sorrel Cherry	961 Fog	837 Graphite	8848 Blackened 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®

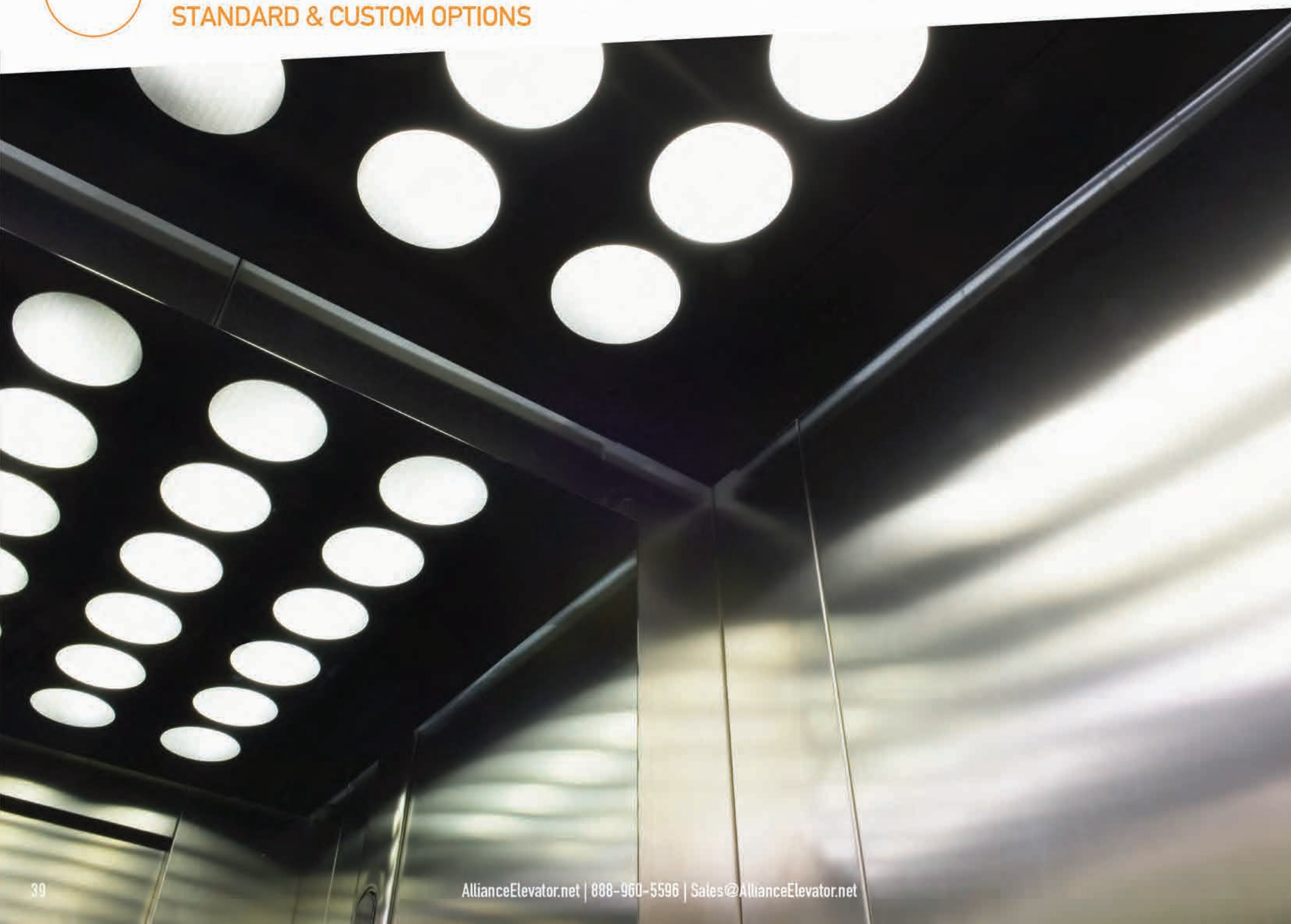
**Additional charges may apply per your selection
Please contact an AES team member for accurate pricing.

*Only available in Stainless Steel



CEILING & 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.

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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



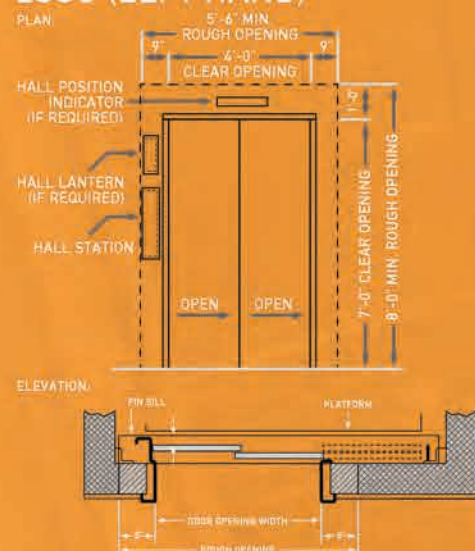
**Additional charges may apply per your selection.
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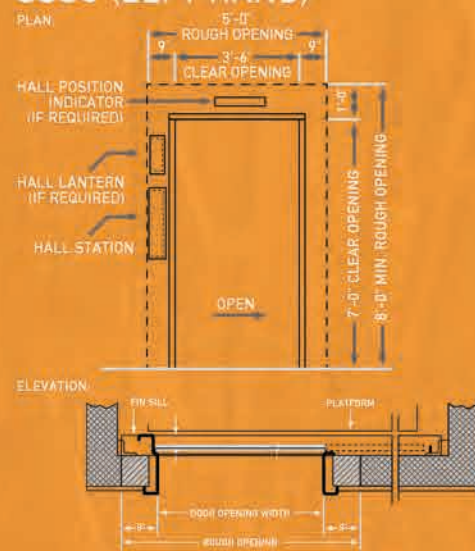
ALLIANCE LINGO

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).

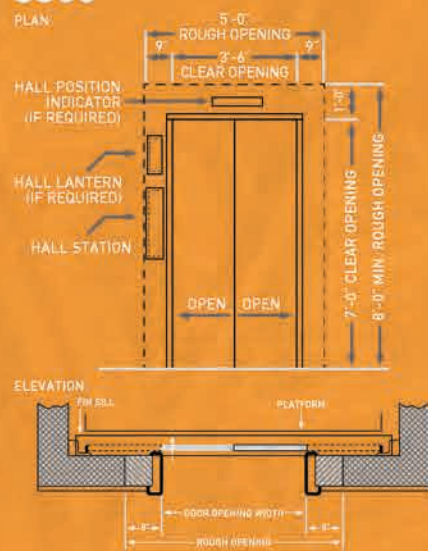
2SSO (LEFT HAND)



SSSO (LEFT HAND)



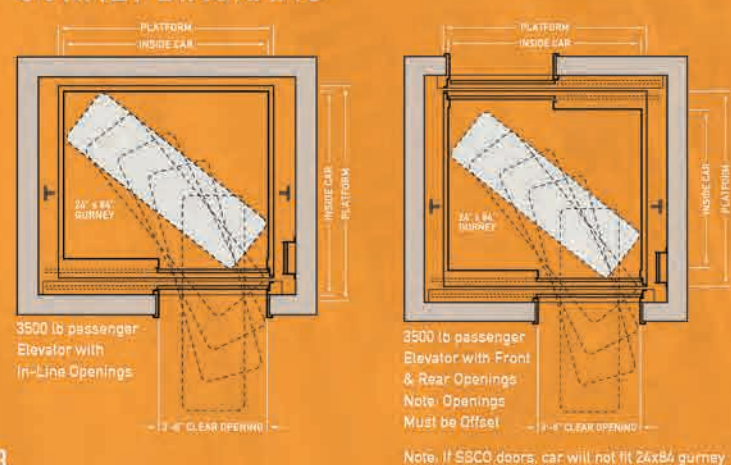
SSCO



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

GURNEY DIAGRAMS



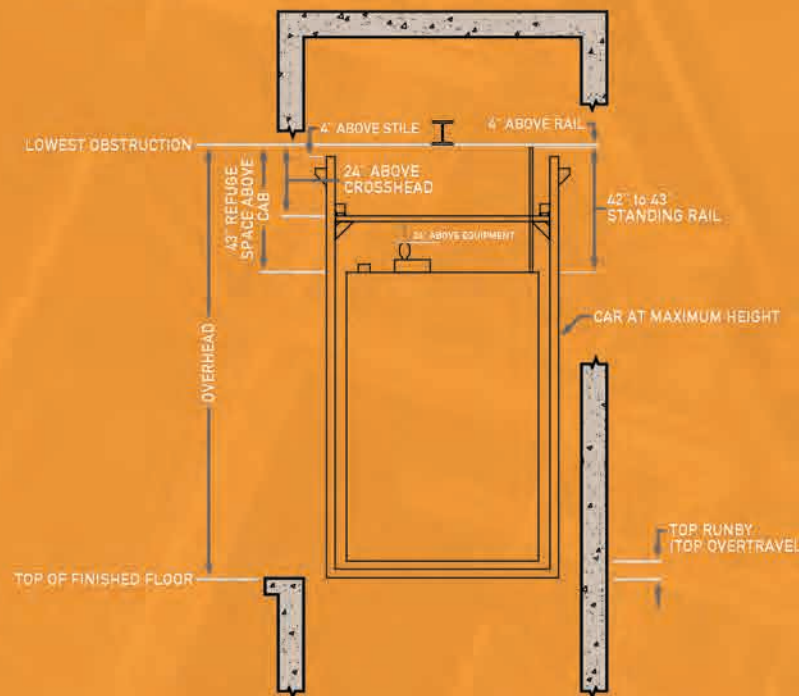
Note: If SSCO doors, car will not fit 24x84 gurney

SILL SUPPORT OPTIONS

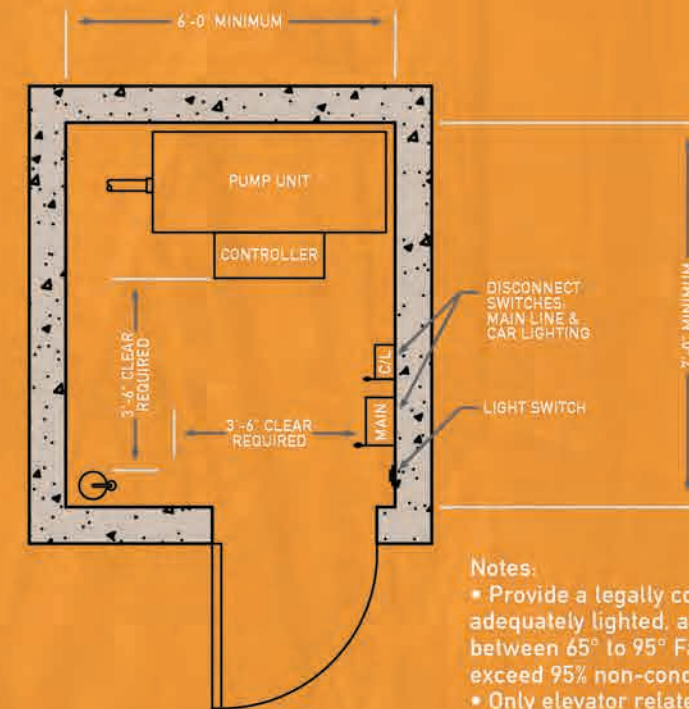


GENERAL NOTE:
1 lb = 0.454 kg
1 ft² = 9.29 E-2m²

TOP OF CAR CLEARANCES



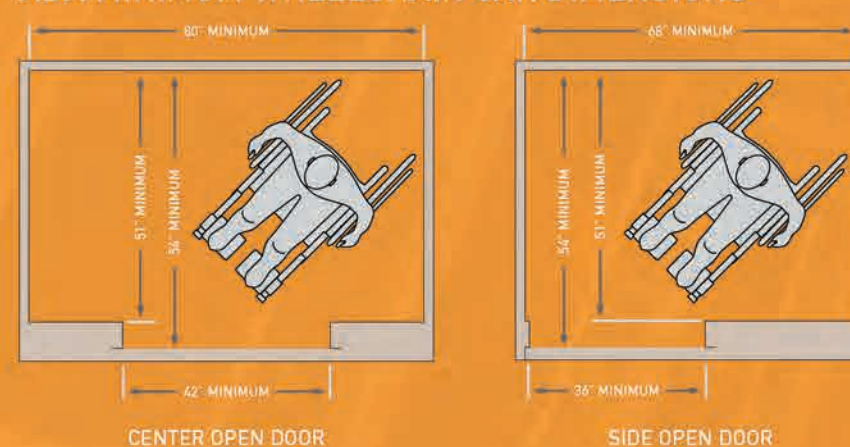
MACHINE ROOM



Notes:

- Provide a legally constructed and enclosed machine room, adequately lighted, and conditioned to maintain temperature between 65° to 95° Fahrenheit, relative humidity is not to exceed 95% non-condensing
- Only elevator related equipment is allowed in machine room

ADA MINIMUM WHEELCHAIR CAR DIMENSIONS



ELECTRIC DATA

HP	VOLT	Full Load Amps	Locked Rotor Amps (Wye-Delta)
15	208	51	82
15	230/460	45/22.5	68/34
20	208	66	104
20	230/460	56/28	90/45
25	208	78	130
25	230/460	68/34	113/57
30	208	90	157
30	230/460	78/39	136/68
40	208	120	224
40	230/460	104/52	195/97
50	208	142	307
50	230/460	123/62	268/133

Electrical Data for Hydraulic 3 Phase Motors (80 Starts Per Hour) in a Submersible Power Unit

[illegible][illegible]



MRL FAMILY



OVERHEAD
TRACTION



HYDRAULIC



FREIGHT



MODERNIZATION



LU/LA

ALLIANCE

ELEVATOR SOLUTIONS

ELEVATORS, SIMPLIFIED.

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