



MRL Family

Mid Rise

The EDGE MRL™ (Building Supported):

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
- Standard & custom dimensions/interiors available

Equipment Capabilities:

- Passenger and service cars
- Capacities from 2,100 - 5,000 lbs
- Speeds from 100 FPM to 500 FPM
- Travel up to 300 ft
- *Machine beam pockets are required in the hoistway walls.

ALLIANCE
ELEVATOR SOLUTIONS



MRL FAMILY

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Capacity (lbs.)	Openings (Front/Rear)	Platform Size W x D (min)	Hoistway Size W x D (min)	Clear Opening	Clear Inside W x D (min)	SSSO Door	SSCO Door	2SSO Door
Front Opening Dimensions								
P2100	F	6'-0" X 5'-1"	7'-6" X 6'-5"	3'-0"	5'-8" X 4'-3"	X		
P2500	F	7'-0" X 5'-1"	8'-6" X 6'-5½"	3'-6"	6'-8" X 4'-3"	X	X	
P3000	F	7'-0" X 5'-6"	8'-6" X 6'-8"	3'-6"	6'-8" X 4'-8"	X	X	
P3500	F	7'-0" X 6'-3"	8'-6" X 7'-0"	3'-6"	6'-8" X 5'-5"	X	X	
P4000	F	8'-0" X 6'-3"	9'-7" X 7'-0"	3'-0" 4'-0"	7'-8" X 5'-5"	X	X X	
S3500	F	5'-4" X 8'-4"	6'-10" X 9'-3"	3'-6"	5'-0" X 7'-4"			X
S4000	F	6'-0" X 8'-5"	7'-6" X 9'-3"	4'-0"	5'-8" X 7'-5"			X
S4500	F	6'-0" X 8'-9"	7'-6" X 9'-7"	4'-0"	5'-8" X 7'-9"			X
S5000	F	6'-0" X 9'-8"	7'-6" X 10'-6"	4'-0"	5'-8" X 8'-8"			X
Front & Rear Opening Dimensions								
P2100	F&R	6'-0" X 5'-8"	7'-6" X 6'-8½"	3'-0"	5'-8" X 4'-4"	X		
P2500	F&R	7'-0" X 5'-8"	8'-6" X 6'-8½"	3'-6"	6'-8" X 4'-4"	X	X	
P3000	F&R	7'-0" X 6'-5"	8'-6" X 7'-5½"	3'-6"	6'-8" X 5'-1"	X	X	
P3500	F&R	7'-0" X 6'-9"	8'-6" X 7'-9½"	3'-6"	6'-8" X 5'-5"	X	X	
P4000	F&R	8'-0" X 6'-9"	9'-7" X 7'-9½"	3'-0" 4'-0"	7'-8" X 5'-5"	X	X X	
S3500	F&R	5'-4" X 9'-0"	6'-10" X 10'-3½"	3'-6"	5'-0" X 7'-4"			X
S4000	F&R	6'-0" X 9'-1"	7'-6" X 10'-4½"	4'-0"	5'-8" X 7'-5"			X
S4500	F&R	6'-0" X 9'-6"	7'-6" X 10'-9½"	4'-0"	5'-8" X 7'-10"			X
S5000	F&R	6'-0" X 10'-4"	7'-6" X 11'-7½"	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		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"

- Rail Supported MRL designed with Torin TPM series machine.
- O.H. Left column has spring or oil buggers 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

**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 4" 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 a Alliance Elevator Solutions representative.