

## AVT LIFTS MRL TRACTION ELEVATORS

DATE: 12/03/2018 REV-3

### RAIL SUPPORTED MRL TRACTION STANDARD PASSENGER CAR ELEVATORS

Capacity: 2100 - 3500 LBS  
 Maximum Floor Travel: 85'-0"  
 Car Speed: 150, 200 & 350 FPM

Capacity (lbs.)	Opening Configuration FO - Front Only FR - Front Rear	Hoistway Size (Width x Depth)	Platform Size (Width x Depth)	Clear Inside Car Dimesions (Width x Depth)	Standard Entrance Width	Standard Entrance Height	Entrance Door Type(s)
P2100	FO	7'-6" x 5'-10"	6'-0" x 5'-1"	5'-8" x 4'-4"	3'-0"	7'-0"	SSO
P2100	FR	7'-6" x 6' -8 1/2"	6'-0" x 5'-8"	5'-8" x 4'-4"	3'-0"	7'-0"	SSO
P2500	FO	8'-4" x 5'-10"	6'-10" x 5'-1"	6'-6" x 4'-4"	3'-6"	7'-0"	SSO / SCO
P2500	FR	8'-4" x 6' -8 1/2"	6'-10" x 5'-8"	6'-6" x 4'-4"	3'-6"	7'-0"	SSO / SCO
P3000	FO	8'-4" x 6'-2"	6'-10" x 5'-6"	6'-6" x 4'-9"	3'-6"	7'-0"	SSO / SCO
P3000	FR	8'-4" x 7' -1 1/2"	6'-10" x 6'-1"	6'-6" x 4'-9"	3'-6"	7'-0"	SSO / SCO
P3500	FO	8'-4" x 6'-11"	6'-10" x 6'-2"	6'-6" x 5'-5"	3'-6"	7'-0"	(1) SSO / SCO
P3500	FR	8'-4" x 7' -9 1/2"	6'-10" x 6'-9"	6'-6" x 5'-5"	3'-6"	7'-0"	(1) SSO / SCO

Notes:  
 Dimensions shown on chart above are for standad non seismic zone only per ASME A17.1 amd CSA B44. For seismic zone 2+ add 4" to hoistway width. To improve installation efficiencies it is recommended to increase the hoistway widths 2".

Door Types: SSO - Single-Speed, Side Opening, (Right-Hand or Left-Hand)  
 SCO - Single-Speed, Center-Opening

Minimum Pit Depths: 150 & 200 fpm: 5'-0"  
 350 fpm: 5'-6"

Minimum Clear Overhead: 150 fpm: 13'-4"  
 (with standard cab height) 200 fpm: 13'-9"  
 350 fpm: 14'-6"

For clear overhead requirments in areas enforcing pre ASME A17.1- 2008 Safety Code for Elevators contact AVT Lifts Sales Department for details.

Inside clear cab height 7'-3" from finish floor to suspended drop ceiling on standard MRL Traction elevators with standard 7'-9" overall high cab. Optional cabs with increased heights are available, however the clear overhead heights must be increased. Contact AVT Lifts Sales Department for details.

2100 lb. capacity elevators are not available with Single-Speed-Center-Opening, (SCO), doors.

(1) 3500 lb. capacity elevators must have 3'-6" wide Single-Speed, Side-Opening, (SSO), to meet 84" stretcher IBC Code requirement.

A safety/hoisting beam, which is to be provided and installed by others in the location designated on the AVT Lifts elevator shop drawings is required by OSHA 1926.502. Clear overhead is to be measured from the upper floor level finish floor height to the underside of the safety/hoisting beam.

#### **Controller Closets for Guide Rail Supported MRL Traction Elevators**

Simplex: Minimum Size: 4'-4" Wide x 1'-8" Deep with (1) 3'-0" Wide x 6'-8" High Door

(2) Duplex: Minimum Size: 7'-0" Wide x 5'-6" Deep with (1) 3'-0" Wide x 6'-8" High Door

(2) Duplex elevator can use (2) separate controller closets

#### **Notes:**

The optimal location for the controller closet is adjacent to the hoistway at the upper floor level. Controller closet can be located remotely and at different floor levels for an additional cost. Contact AVT Lifts Sales Department for more details

Controller closet temperature range to be a 32 F minimum - 100 F maximum. The non-condensing relative humidity levels should range between 10-90%.

Consult AVT Lifts Sales Department for requirements for 3 car group+ controller closet requirements.