

Global Tardif Elevator Manufacturing Group

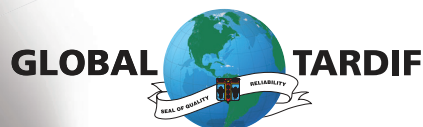
Manufacturing Elevator Solutions

Machine Room Less (MRL)

Planning Guide



Groupe manufacturier d'ascenseurs



Elevator Manufacturing Group

MRL

Traction

Hydraulic

Freight

Cabs

Entrance

Accessibility

Global Tardif Elevator Manufacturing Group Inc.



Le groupe manufacturier d'ascenseurs Global Tardif inc.

Our Company

Our History

Since 1984, Global Tardif has been supplying the elevator industry with a full line of quality products and components. We are specialized in the manufacturing of None model or model elevators. We engineer, design and manufacture the complete product line of Traction (geared or gearless), Machine Room Less (MRL) , hydraulic or Freight elevators.

We manufacture in house all type of Structural package, full line of Fire rated UL/ULC passenger type entrances and any type of Cabs from basic to the most detailed panoramic elevators or high end cab interiors.

Global Tardif Head office and manufacturing plant is located in Quebec City, Quebec Province in Canada. We currently employ approximately 250 people within the main plant. Our manufacturing facilities is over 267 000 Sq. ft. We are using

the latest technology and we are located in a brand new built plant since 2003 with the latest expansion of 65 000 Sq.ft in June 2010.

Our Contract Logistic Group (CLG) are a group of highly skilled and experienced Engineers, Technician and Draftsmen.

Our parent Company, GT Accessibility are also supplying the Accessibility market with a full line of Vertical Platform Lift, LULA , Residential elevator, Commercial and Residential Dumbwaiters and Sidewalk Lift.

We can provide any kind, any design or any shape of elevators your application will need. Over the years, Global Tardif have been involved in many large projects to supply very custom designed Traction or Hydraulic elevators.

Product Specialist

Global Tardif have been involved in all kind of projects involving none model Traction or Hydraulic elevators. We are able to provide you any type of elevators of any shape or basically any capacity you need .

GREEN Elevator

We are a pioneer in Customized MRL application. Since 2002, Global Tardif have been involved in MRL elevators. With so many units sold and installed across North America, the Caribbean and many other Countries, we developed a strong engineering team to allow us to be able to develop, design and manufacture any type of MRL elevators.

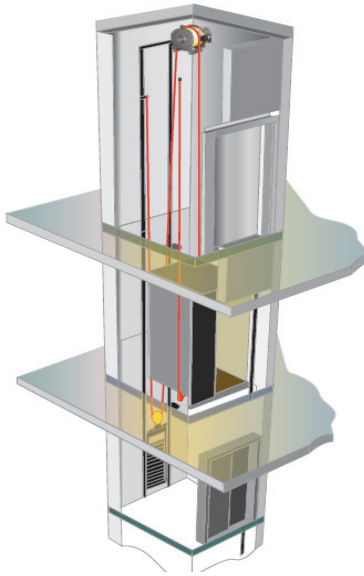
Built to suit Customer's criteria

Global Tardif are providing standard package per our own criteria but we are more likely specialized to provide your elevator package with your specific criteria's. Our strong team of Project Manager are Engineer's will engineer individually each project.

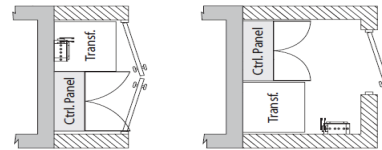
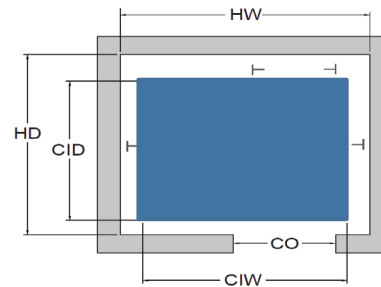


MACHINE ROOM LESS ELEVATOR

MRL GENIUS PASSENGER TYPE



FRONT OPENING



Type of Opening	Capacity	Hoistway Width (HW) ¹	Hoistway Depth (HD)	Cab Inside Width (CIW)	Cab Inside Depth (CID)	Size of Opening ²
SSP or CO ³	2000 Lbs 907 Kg	7'-8" 2337 mm	6'-8" 2032 mm	5'-8" 1727 mm	4'-3" 1295 mm	3'-0" x 7'-0" 914 x 2134 mm
SSP or CO	2500 Lbs 1134 Kg	8'-8" 2642 mm	6'-8" 2032 mm	6'-8" 2032 mm	4'-3" 1295 mm	3'-6" x 7'-0" 1067 x 2134 mm
SSP or CO	3000 Lbs 1361 Kg	8'-8" 2642 mm	7'-2" 2184 mm	6'-8" 2032 mm	4'-9" 1448 mm	3'-6" x 7'-0" 1067 x 2134 mm
SSP or CO	3500 Lbs 1588 Kg	8'-8" 2642 mm	7'-10" 2388 mm	6'-8" 2032 mm	5'-5" 1651 mm	3'-6" x 7'-0" 1067 x 2134 mm
CO	4000 Lbs 1814 Kg	9'-8" 2946 mm	7'-10" 2388 mm	7'-8" 2337 mm	5'-5" 1651 mm	4'-0" x 7'-0" 1219 x 2134 mm

Speed fpm (m/s)	Overhead ⁵		Pit Depth P
	Minimum	Recommended	
200 1,00	15'-0" 4572	16'-6" 5029	5'-6" 1676
350 1,75	15'-6" 4724	17'-0" 5182	5'-6" 1676
500 2,5	16'-6" 5029	18'-0" 5486	6'-6" 1981

Control Room Dimensions			
Type	Width	Depth	Height
Closet Door	5'-9" 1753	3'-0" 914	8'-0" 2438
Single Door	5'-9" 1753	4'-9" 1448	8'-0" 2438

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Notes

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² Optional custom height door opening also available. For glassback dimensions, please contact us.

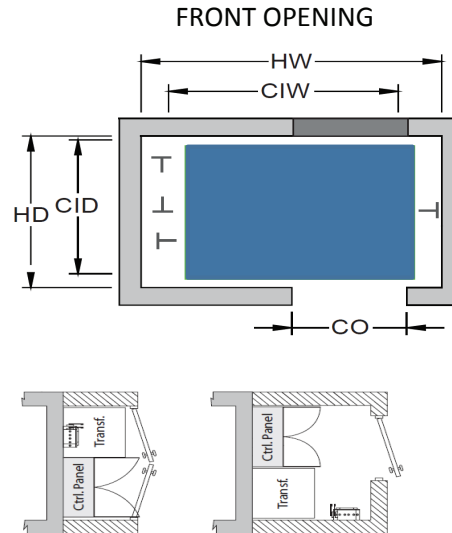
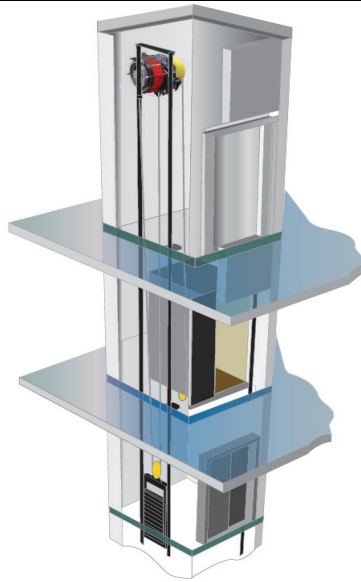
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⁴ Overhead for 8'-0" height cab. For 9'-0" height cab, add 1'-0" to overhead. For 10'-0" height cab, add 2'-0" to overhead.

⁵ Minimum overhead leaves a 6" clearance above elevator motor. To avoid any installation and/or maintenance problems, GT recommends increasing this clearance to 24".

MACHINE ROOM LESS ELEVATOR

MRL Z3 PASSENGER TYPE



Type of Opening	Capacity		Hoistway Width (HW) ¹	Hoistway Depth (HD)	Cab Inside Width (CIW)	Cab Inside Depth (CID)	Size of Opening ²
SSP or CO ³	2000	Lbs	8'-5"	5'-9"	5'-8"	4'-3"	3'-0" x 7'-0"
	907	Kg	2565 mm	1753 mm	1727 mm	1295 mm	914 x 2134 mm
SSP or CO	2500	Lbs	9'-5"	5'-9"	6'-8"	4'-3"	3'-6" x 7'-0"
	1134	Kg	2870 mm	1753 mm	2032 mm	1295 mm	1067 x 2134 mm
SSP or CO	3000	Lbs	9'-5"	6'-3"	6'-8"	4'-9"	3'-6" x 7'-0"
	1361	Kg	2870 mm	1905 mm	2032 mm	1448 mm	1067 x 2134 mm
SSP or CO	3500	Lbs	9'-5"	6'-11"	6'-8"	5'-5"	3'-6" x 7'-0"
	1588	Kg	2870 mm	2108 mm	2032 mm	1651 mm	1067 x 2134 mm
CO	4000	Lbs	10'-5"	6'-11"	7'-8"	5'-5"	4'-0" x 7'-0"
	1814	Kg	3175 mm	2108 mm	2337 mm	1651 mm	1219 x 2134 mm

Speed fpm (m/s)	Overhead ⁵		Pit Depth
	OH ⁴		P
	Minimum	Recommended	
200 1,00	15'-6" 4724	17'-0" 5182	5'-0" 1524
350 1,75	16'-0" 4877	17'-6" 5334	5'-6" 1676
500 2,5	17'-0" 5182	18'-6" 5639	6'-6" 1981

Control Room Dimensions			
Type	Width	Depth	Height
Closet Door	5'-9" 1753	3'-0" 914	8'-0" 2438
Single Door	5'-9" 1753	4'-9" 1448	8'-0" 2438

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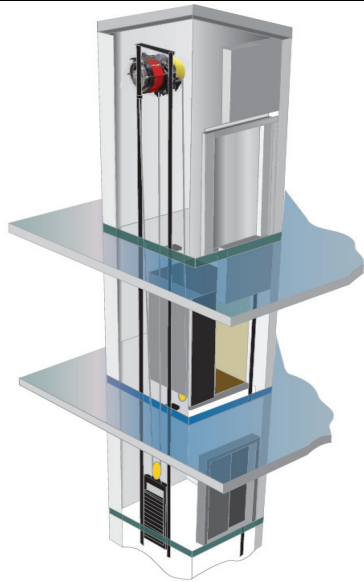
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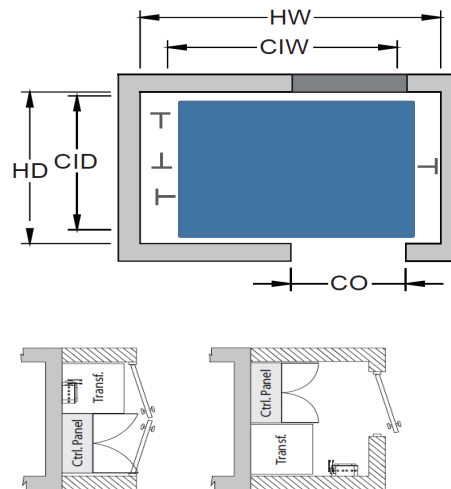
⁵ Minimum overhead leaves a 6" clearance above elevator motor. To avoid any installation and/or maintenance problems, GT recommends increasing this clearance to 24".

MACHINE ROOM LESS ELEVATOR

MRL Z3 PASSENGER TYPE



FRONT & REAR OPENING



Type of Opening	Capacity	Hoistway Width (HW) ¹	Hoistway Depth (HD)	Cab Inside Width (CIW)	Cab Inside Depth (CID)	Size of Opening ²
SSP or CO ³	2000 Lbs 907 Kg	8'-5" 2565 mm	6'-7 1/4" 2013 mm	5'-8" 1727 mm	4'-3 3/4" 1314 mm	3'-0" x 7'-0" 914 x 2134 mm
SSP or CO	2500 Lbs 1134 Kg	9'-5" 2870 mm	6'-7 1/4" 2013 mm	6'-8" 2032 mm	4'-3 3/4" 1314 mm	3'-6" x 7'-0" 1067 x 2134 mm
SSP or CO	3000 Lbs 1361 Kg	9'-5" 2870 mm	7'-1 1/4" 2165 mm	6'-8" 2032 mm	4'-9 3/4" 1467 mm	3'-6" x 7'-0" 1067 x 2134 mm
SSP or CO	3500 Lbs 1588 Kg	9'-5" 2870 mm	7'-9 1/4" 2369 mm	6'-8" 2032 mm	5'-5 3/4" 1670 mm	3'-6" x 7'-0" 1067 x 2134 mm
CO	4000 Lbs 1814 Kg	10'-5" 3175 mm	7'-9 1/4" 2369 mm	7'-8" 2337 mm	5'-5 3/4" 1670 mm	4'-0" x 7'-0" 1219 x 2134 mm

Speed fpm (m/s)	Overhead ⁵		Pit Depth P
	Minimum	Recommended	
200 1,00	15'-6" 4724	17'-0" 5182	5'-0" 1524
350 1,75	16'-0" 4877	17'-6" 5334	5'-6" 1676
500 2,5	17'-0" 5182	18'-6" 5639	6'-6" 1981

Control Room Dimensions			
Type	Width	Depth	Height
Closet Door	5'-9" 1753	3'-0" 914	8'-0" 2438
Single Door	5'-9" 1753	4'-9" 1448	8'-0" 2438

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Notes

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² Optional custom height door opening also available. For glassback dimensions, please contact us.

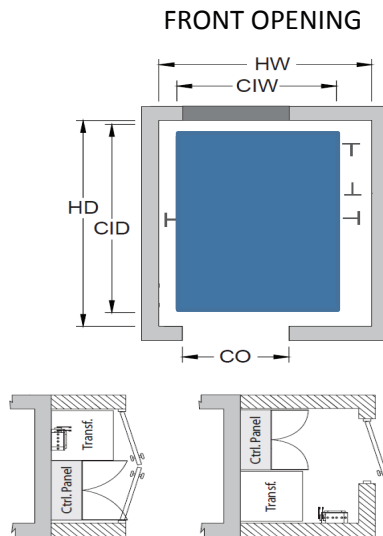
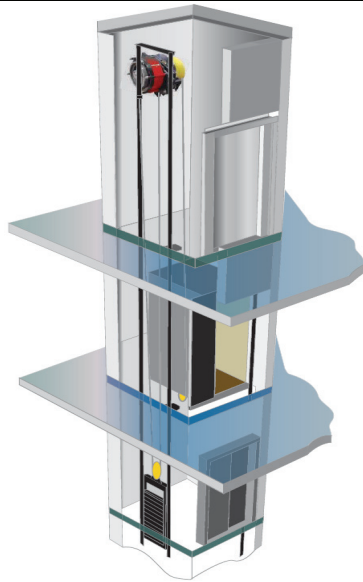
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⁵ Minimum overhead leaves a 6" clearance above elevator motor. To avoid any installation and/or maintenance problems, GT recommends increasing this clearance to 24".

MACHINE ROOM LESS ELEVATOR

MRL Z3 HOSPITAL TYPE



Type of Opening	Capacity	Hoistway Width (HW) ¹	Hoistway Depth (HD)	Cab Inside Width (CIW)	Cab Inside Depth (CID)	Size of Opening ²
2SP	4000 Lbs 1814 Kg	8'-1" 2464 mm	9'-8" 2946 mm	5'-4" 1626 mm	7'-11" 2413 mm	4'-0" x 7'-0" 1219 x 2134 mm
2SP	4500 Lbs 2041 Kg	8'-5" 2565 mm	9'-8" 2946 mm	5'-8" 1727 mm	7'-11" 2413 mm	4'-0" x 7'-0" 1219 x 2134 mm
2SP	5000 Lbs 2268 Kg	8'-8" 2642 mm	10'-3" 3124 mm	5'-11" 1803 mm	8'-6" 2591 mm	4'-6" x 7'-0" 1372 x 2134 mm

Speed fpm (m/s)	Overhead ⁵		Pit Depth P
	Minimum	Recommended	
200 1,00	15'-6" 4724	17'-0" 5182	5'-0" 1524
350 1,75	16'-0" 4877	17'-6" 5334	5'-6" 1676
500 2,5	17'-0" 5182	18'-6" 5639	6'-6" 1981

Control Room Dimensions			
Type	Width	Depth	Height
Closet Door	5'-9" 1753	3'-0" 914	8'-0" 2438
Single Door	5'-9" 1753	4'-9" 1448	8'-0" 2438

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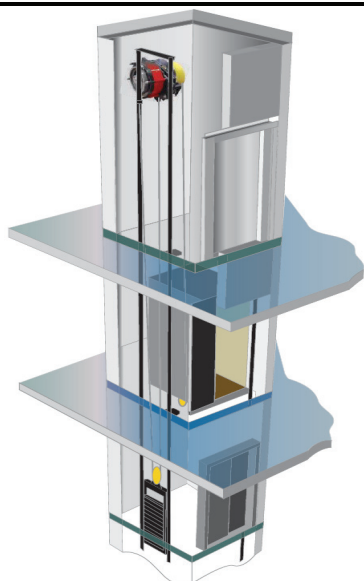
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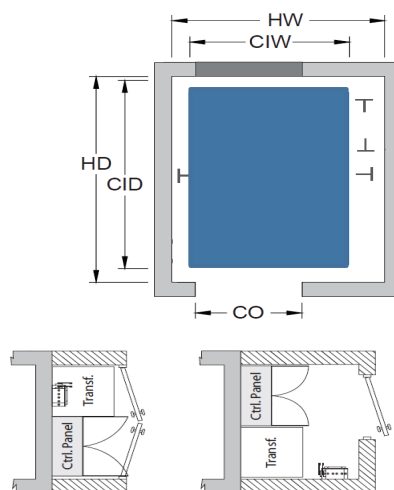
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MACHINE ROOM LESS ELEVATOR

MRL Z3 HOSPITAL TYPE



FRONT & REAR OPENING



Type of Opening	Capacity	Hoistway Width (HW) ¹	Hoistway Depth (HD)	Cab Inside Width (CIW)	Cab Inside Depth (CID)	Size of Opening ²
2SP	4000 Lbs 1814 Kg	8'-1" 2464 mm	10'-9 1/4" 3283 mm	5'-4" 1626 mm	7'-11 3/4" 2432 mm	4'-0" x 7'-0" 1219 x 2134 mm
2SP	4500 Lbs 2041 Kg	8'-5" 2565 mm	10'-9 1/4" 3283 mm	5'-8" 1727 mm	7'-11 3/4" 2432 mm	4'-0" x 7'-0" 1219 x 2134 mm
2SP	5000 Lbs 2268 Kg	8'-8" 2642 mm	11'-4 1/4" 3461 mm	5'-11" 1803 mm	8'-6 3/4" 2610 mm	4'-6" x 7'-0" 1372 x 2134 mm

Speed fpm (m/s)	Overhead ⁵		Pit Depth
	OH ⁴		P
	Minimum	Recommended	
200 1,00	15'-6" 4724	17'-0" 5182	5'-0" 1524
350 1,75	16'-0" 4877	17'-6" 5334	5'-6" 1676
500 2,5	17'-0" 5182	18'-6" 5639	6'-6" 1981

Control Room Dimensions			
Type	Width	Depth	Height
Closet Door	5'-9" 1753	3'-0" 914	8'-0" 2438
Single Door	5'-9" 1753	4'-9" 1448	8'-0" 2438

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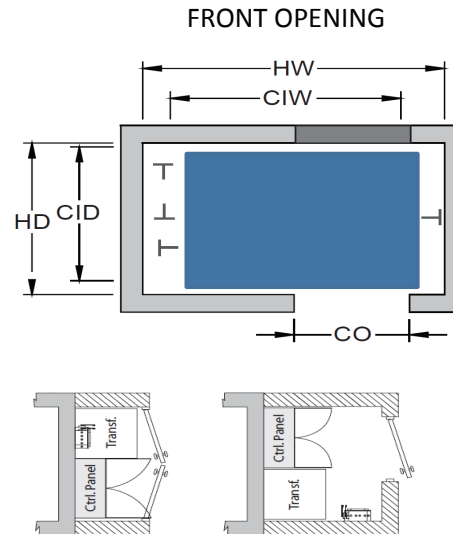
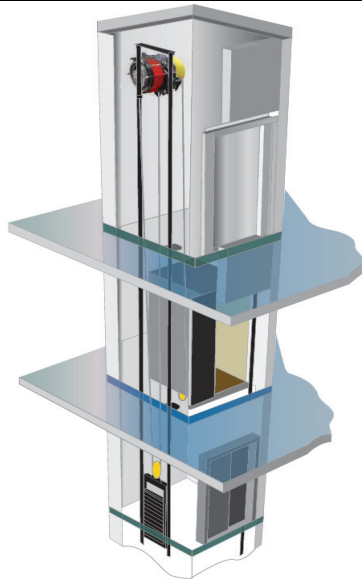
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MACHINE ROOM LESS ELEVATOR

MRL Z3 COMPACT

"LOW OVERHEAD"
PASSENGER TYPE



Type of Opening	Capacity		Hoistway Width (HW) ¹	Hoistway Depth (HD)	Cab Inside Width (CIW)	Cab Inside Depth (CID)	Size of Opening ³
SSP or CO ⁴	2000	Lbs	9'-0"	5'-9"	5'-8"	4'-3"	3'-0" x 7'-0"
	907	Kg	2743 mm	1753 mm	1727 mm	1295 mm	914 x 2134 mm
SSP or CO	2500	Lbs	10'-0"	5'-9"	6'-8"	4'-3"	3'-6" x 7'-0"
	1134	Kg	3048 mm	1753 mm	2032 mm	1295 mm	1067 x 2134 mm
SSP or CO	3000	Lbs	10'-0"	6'-3"	6'-8"	4'-9"	3'-6" x 7'-0"
	1361	Kg	3048 mm	1905 mm	2032 mm	1448 mm	1067 x 2134 mm
SSP or CO	3500	Lbs	10'-0"	6'-11"	6'-8"	5'-5"	3'-6" x 7'-0"
	1588	Kg	3048 mm	2108 mm	2032 mm	1651 mm	1067 x 2134 mm

Speed fpm (m/s)	Min. recommended Overhead	Pit Depth
	OH ⁵ 2000 - 3500 Lbs	P
200	12'-8"	5'-0"
1,00	3861	1524
350	13'-4"	5'-6"
1,75	4064	1676

Control Room Dimensions			
Type	Width	Depth	Height
Closet Door	5'-9"	3'-0"	8'-0"
	1753	914	2438
Single Door	5'-9"	4'-9"	8'-0"
	1753	1448	2438

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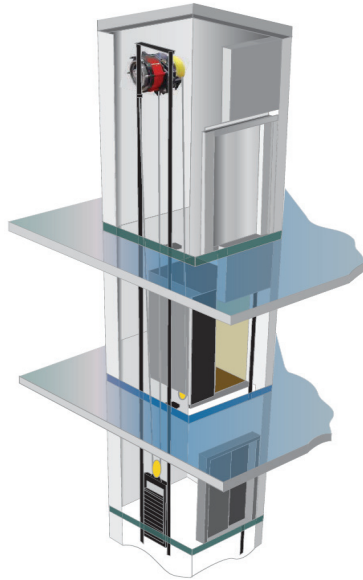
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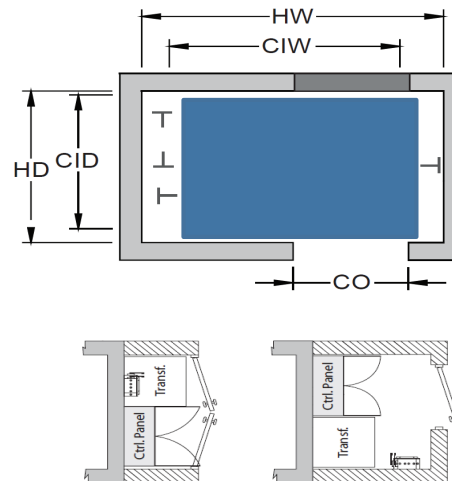
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MACHINE ROOM LESS ELEVATOR

MRL Z3 COMPACT "LOW OVERHEAD" PASSENGER TYPE



FRONT & REAR OPENING



Type of Opening	Capacity	Hoistway Width (HW) ¹	Hoistway Depth (HD)	Cab Inside Width (CIW)	Cab Inside Depth (CID)	Size of Opening ³
SSP or CO ⁴	2000 Lbs 907 Kg	9'-0" 2743 mm	6'-7 1/4" 2013 mm	5'-8" 1727 mm	4'-3 3/4" 1314 mm	3'-0" x 7'-0" 914 x 2134 mm
SSP or CO	2500 Lbs 1134 Kg	10'-0" 3048 mm	6'-7 1/4" 2013 mm	6'-8" 2032 mm	4'-3 3/4" 1314 mm	3'-6" x 7'-0" 1067 x 2134 mm
SSP or CO	3000 Lbs 1361 Kg	10'-0" 3048 mm	7'-1 1/4" 2165 mm	6'-8" 2032 mm	4'-9 3/4" 1467 mm	3'-6" x 7'-0" 1067 x 2134 mm
SSP or CO	3500 Lbs 1588 Kg	10'-0" 3048 mm	7'-9 1/4" 2369 mm	6'-8" 2032 mm	5'-5 3/4" 1670 mm	3'-6" x 7'-0" 1067 x 2134 mm

Speed fpm (m/s)	Min. recommended Overhead ⁶	Pit Depth P
	OH ^{5 7} 2000 - 3500 Lbs	
200 1,00	12'-8" 3861	5'-0" 1524
350 1,75	13'-4" 4064	5'-6" 1676

Control Room Dimensions			
Type	Width	Depth	Height
Closet Door	5'-9" 1753	3'-0" 914	8'-0" 2438
Single Door	5'-9" 1753	4'-9" 1448	8'-0" 2438

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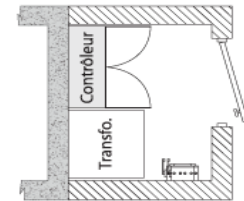
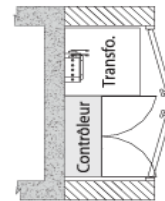
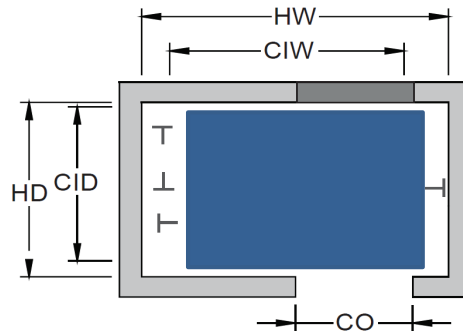
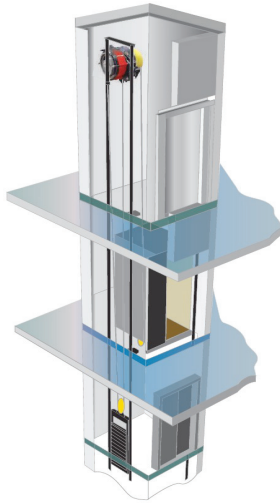
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MACHINE ROOM LESS ELEVATOR

MRL Chronos PASSENGER TYPE



FRONT OPENING						
Type of opening	Capacity	Hoistway Width (HW) ¹	Hoistway Depth (HD)	Cab Inside (CIW)	Cab Inside (CID)	Size of Opening ²
SSP or CO ³	2000 Lbs 907 Kg	7'-9" 2362 mm	5'-10" 1778 mm	5'-8" 1727 mm	4'-3" 1295 mm	3'-0" x 7'-0" 914 x 2134 mm
SSP or CO	2500 Lbs 1134 Kg	6'-10" 2032 mm	5'-10" 1778 mm	6'-8" 2032 mm	4'-3" 1295 mm	3'-6" x 7'-0" 1067 x 2134 mm
SSP or CO	2500+ Lbs 1134 Kg	8'-11" 2718 mm	5'-10" 1778 mm	6'-11" 2108 mm	4'-3" 1295 mm	3'-6" x 7'-0" 1067 x 2134 mm
2SP (HOSPITAL TYPE)	2500 Lbs 1134 Kg	6'-10" 2083 mm	8'-5" 2565 mm	4'-6" 1372 mm	6'-9 1/4" 2065 mm	3'-6" x 7'-0" 1067 x 2134 mm
SSP or CO	3000 Lbs 1361 Kg	8'-9" 2667 mm	6'-3" 1905 mm	6'-8" 2032 mm	4'-9" 1448 mm	3'-6" x 7'-0" 1067 x 2134 mm
SSP or CO	3500 Lbs 1588 Kg	8'-9" 2667 mm	6'-11" 2108 mm	6'-8" 2032 mm	5'-5" 1651 mm	3'-6" x 7'-0" 1067 x 2134 mm

FRONT & REAR OPENING						
Type of opening	Capacity	Hoistway Width (HW) ¹	Hoistway Depth (HD)	Cab Inside (CIW)	Cab Inside (CID)	Size of Opening ²
SSP or CO ³	2000 Lbs 907 Kg	7'-9" 2362 mm	6'-7 1/4" 2013 mm	5'-8" 1727 mm	4'-3 3/4" 1314 mm	3'-0" x 7'-0" 914 x 2134 mm
SSP or CO	2500 Lbs 1134 Kg	8' - 9" 2667 mm	6'-7 1/4" 2013 mm	6'-8" 2032 mm	4'-3 3/4" 1314 mm	3'-6" x 7'-0" 1067 x 2134 mm
SSP or CO	2500+ Lbs 1134 Kg	8'-11" 2718 mm	6'-7 1/4" 2013 mm	6'-11" 2108 mm	4'-3 3/4" 1314 mm	3'-6" x 7'-0" 1067 x 2134 mm
2SP (HOSPITAL TYPE)	2500 Lbs 1134 Kg	6'-10" 2083 mm	9'-6 1/4" 2902 mm	4'-6" 1372 mm	6'-8 3/4" 2051 mm	3'-6" x 7'-0" 1067 x 2134 mm
SSP or CO	3000 Lbs 1361 Kg	8'-9" 2667 mm	7'-1 1/4" 2165 mm	6'-8" 2032 mm	4'-9 3/4" 1467 mm	3'-6" x 7'-0" 1067 x 2134 mm
SSP or CO	3500 Lbs 1588 Kg	8'-9" 2667 mm	7'-9 1/4" 2369 mm	6'-8" 2032 mm	5'-5 3/4" 1670 mm	3'-6" x 7'-0" 1067 x 2134 mm

Control Room Dimensions			
Type	Width	Depth	Height
Closet Door	5'-9" 1753 mm	2'-0" 610 mm	8'-0" 2438 mm
Single Door	5'-9" 1753 mm	4'-9" 1448 mm	8'-0" 2438 mm

	Pit Depth	Overhead ⁴
Up to 200 FPM (1.00 m/s)	5'-0" 1524 mm	15'-0" / 15'-6" 4570 / 4725 mm
350 FPM (1.75 m/s)	5'-6" 1676 mm	16'-0" / 16'-6" 4875 / 5030 mm

* Any size, Any capacity, Any shape... We can do it; please contact us to customize your project!

* WARNING * Do not use those dimensions for final construction purposes. Local Code or Code year application might require different spacing and will affect those dimensions. Please contact us for confirmation.

Notes

¹ For elevators with occupied space underneath hoistway, width may change. Please contact us for dimensions.

² Optional custom height door opening also available. For glassback dimensions, please contact us.

³ 36" CO entrances not supported by nonmandatory appendix E-Elevator requirements for persons with physical disabilities in regions that support CNBC.

⁴ Overhead for 8'-0" height cab. For 9'-0" height cab, add 1'-0" to overhead. For 10'-0" height cab, add 2'-0" to overhead.



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