

TOSHIBA

Toshiba Machine-room-less Elevators
Standard Passenger Elevator

SPACEL-III

For SNI standard

3rd Edition

For SNI standard

* Revised publication effective Jun. 2023

Safety Cautions

- Observance of relevant laws / regulations are required.
- Read the entire "Instruction Manual" carefully before use, for important information about safety, handling and operation.

TOSHIBA

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Please enter the contents from the "Inquiry Input Form" in website.
<https://www.toshiba-elevator.co.jp/elv/infoeng/>

· The data given in this catalog are subject to change without notice.

GK-F221(0)-2306-500-2306(TD)

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THE SOLUTIONS

COMPANY SOLUTIONS

Toshiba Elevator and Building Systems Corporation has built a framework which encompasses all aspects from system development to production, sales to marketing, installation, adjustment, maintenance and services in order to provide clients with the highest quality products and services.

Utilizing the comprehensive technological infrastructure developed by Toshiba Group in more than 140 years since its foundation, we aim to enhance the leading edge technology and quality that we used to develop the ultra high speed elevator, harnessing Toshiba's technological innovations to their fullest extent. To meet clients' expectations and requirements for safe and pleasant elevators as well as constantly pursuing further innovation and improvement. Furthermore, we are aiming to strengthen system development, production, enhancing sales channel and sales partnership to expand in the global market.

CONCEPT of SPACEL-III

Toshiba manufactures elevators by applying the latest technology and improved elevator development skills. SPACEL-III, the most recent high-end machine room less elevator, which incorporates various technologies to save energy and time, contributes to global environment.

Product Line-up

Expanded the applicable speed of the SPACEL-III. We can comply with various needs such as building use, layout design, etc.

Scope of specification	Range of application
Passenger	8 ~ 28 persons
Rated load	550 ~ 1900 kg
Rated speed	1.0 ~ 3.0 m/s

Note1: Note1: Applicable range of rated speed 3.0m/s are rated load 1100kg or more.
 Note2: The above scope complies with SNI standard.

Rated speed (m/s)	SPACEL-III																
	3	2.5	2	1.75	1.5/1.6	1	550	680	900	1100	1160	1300	1360	1500	1700	1900	
Rated load (kg)																	
Type	P8	P10	P13	P16	P17	P19	P20	P22	P25	P28							

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Functions

○ : STANDARD △ : OPTIONAL

Functions	Notes	Descriptions	
Operations	Simplex selective-collective fully automatic operation	Fully automatic operation by hall and car calls for single car	○
	Duplex selective collective fully automatic operation (Note 1)	Fully automatic operation for 2 cars in the same group	△
	3 or 4-car group supervisory control system (Note 1)	Fully automatic operation for 3 or 4 cars in the same group	△
	Group supervisory control system	For supervisory operation of groups of more than 4 cars, please contact us	△
	FLOORNAVI	Destination Control System	△
	Independent operation	Lift car separated from group control operation and responde to car call only	△
	Attendant operation	Operation by attendant by switch & button provided at service cabinet in COP	△
Safety Functions	Automatic landing function when system fails	When system failure occurs, the lift will automatically land at the nearest floor and the door will open for passengers to exit	○
	Automatic withdrawn from group control	If an elevator under a group supervisory operation fails to run for some reason, the elevator is cut out of the group and the other elevators automatically back up the faulty one to continue the group supervisory operation.	○
	Car inspection operation [INS]	During car inspection operation, the lift car will run at slowly speed without responding to hall call	○
	Overload protection	The car overload buzzer will sound to prevent overloading and the doors will remain open	○
	Fireman's operation (Note 2)	In the event of fire, when the Fireman's switch is activated, the designated lift will be ready for firemen to use	△
	Fire emergency operation	In the event of fire, all lifts will return to the designated floor and stop operation to allow passengers to exit	△
	Emergency operation indication at COP	In the event of an emergency, the emergency operation status will be displayed at COP	○
	Power failure emergency operation	In the event of power failure, all lifts will return to the designated floor by emergency power supply from the building to allow passengers to exit	△
	Automatic landing during power failure [TOSLANDER]	In the event of power failure, the lift will land at the nearest floor by emergency battery	△
	Earthquake emergency operation	In the event of an earthquake, the elevator will detect the seismic signal and land at the nearest floor	△
	In-car emergency lamp [Self-charging]	In the event of power failure, the in-car emergency lamp will be activated	○
	Emergency call button	A button for passenger to make an emergency call when they are trapped inside the lift	○
	Door open when lift car is overloaded	The doors will re-open when over load is detected, even during the closing of doors.	○
	Mechanical door safety	When the mechanical door safety device is touched by a passenger, the door will open	△
	Multi-beam door safety sensor [Or light curtain door safety sensor]	When the multi-beam door safety device senses a passenger, the door will open	△
	2 in 1 door safety [Multi-beam door safety + Mechanical door safety]	A combination of multi-beam door safety and mechanical door safety	○
	Service Functions	Home landing	To reduce passenger waiting time, the lift will return to the designated floor and stand by
Service floor cut-off selection [Software interface]		This is of the free setting type, where the elevator superintendent for every building is free to set and modify service cut-off floors even after in use. This is the most appropriate type for such office buildings as their tenants are not yet fixed before completion.	△

Notes

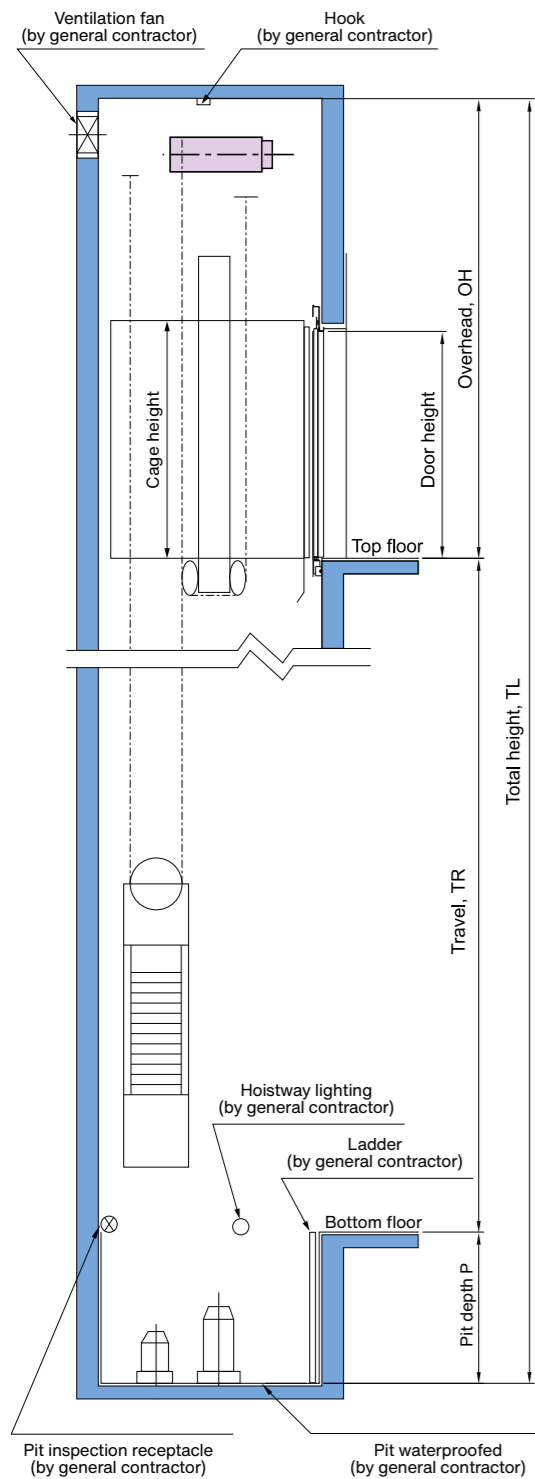
- 1: Not applicable to lift car with through door.
- 2: Fire emergency operation and fireman service cannot be applied simultaneously.
- 3: Standard function for 2-car operation or 3-car operation.
- 4: Car load is less than 150kg and there are five or more registered car calls.

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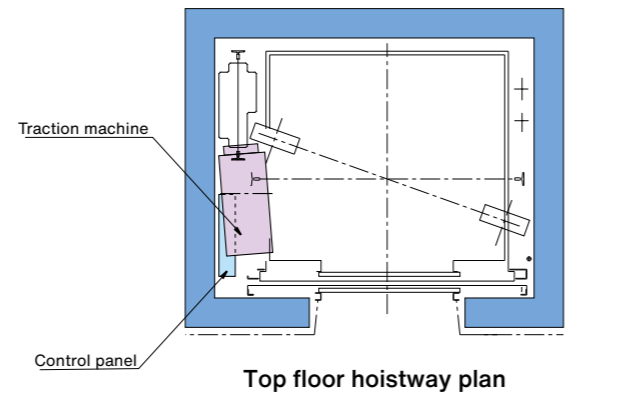
○ : STANDARD △ : OPTIONAL

Functions	Notes	Descriptions	
Service Functions	Service floor cut-off selection [Manual]	installing a switch or a timer on the supervisory panel, disables registration of car calls or hall calls for a basement floor's or an intermediate floors or intermediate floors thus engaging in non-stop (bypass) without servicing there.	△
	Full car bypass (Note 3)	When the lift car is full, the lift will bypass all hall calls and go straight to the designated floor	○
	Car call cancellation	The floor call can be cancelled from the COP by pressing the floor button twice within 3 second	○
	Nuisance call cancellation (Note 4)	Incorrect or nuisance floor calls can be cancelled to eliminate unnecessary operation	○
	Door repeated opening	When an obstacle is detected, the door will repeatedly open and close until the obstacle is removed	○
	Car indicator	Car indicator with the car operating panel	○
	Adjustable door opening time	Adjusts the door opening time to reflect building usage	○
	Door open extension button	Extends the door opening time	△
	Car chime	A chime installed in the car ceiling will sound when the lift arrives	△
	Hall chime	A chime installed in the lift lobby will sound when the lift arrives	△
	Car full load indicator	"Full Load" will display on the hall indicator when the lift car is full	○
	Hall lantern	The hall lantern will light up when the lift arrived	△
	Sub car operating panel	Additional car operating panel	△
	Out of service indicator	"Out of Service" will display on the hall indicator when the lift car is faulty	○
	Parking operation [Manual]	Parks the lift at designated floor by key-switch	○
	Parking operation [Automatic]	Parks the lift at designated floor autotmatically	△
	Car lighting automatic cut-off	When the lift is not in operation after a pre-determined period of time, the car light will turn off automatically	○
	Ventilation fan automatic cut-off	When the lift is not in operation after a pre-determined period of time, the ventilation fan will turn off automatically	○
	Door Open button lamp [For automatically cut-off car lighting]	The "Door Open" button will remain lit when the lift car light is turned off automatically	○
	Nuisance call cancellation at reversal	Cancel intentionally registered nuisance calls automatically in the reversal travel direction	○
	Multi-channel intercom	The intercom system can communicate with multi-stations simultaneously	○
	Designated floor stop operation	Automatically stops the lift at the designated floor for crime prevention purposes	△
	Card access system	Allows activation of the disnated floor call by IC card ※ Card Access System by others	△
Speech synthesizer	Announces car operations	△	
Supervisory panel	Located in the building control room, etc. to monitor the status and control of each lift	△	

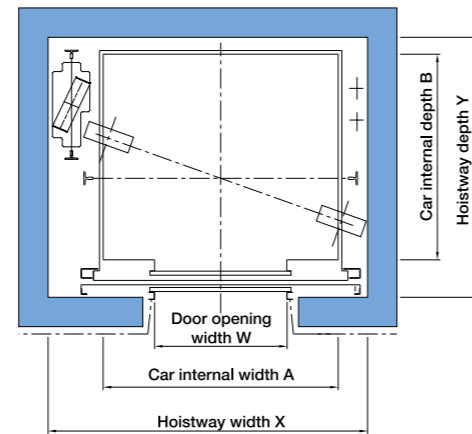
Hoistway Layout



Hoistway section



Top floor hoistway plan



Typical floor hoistway plan (W, D)

Specifications

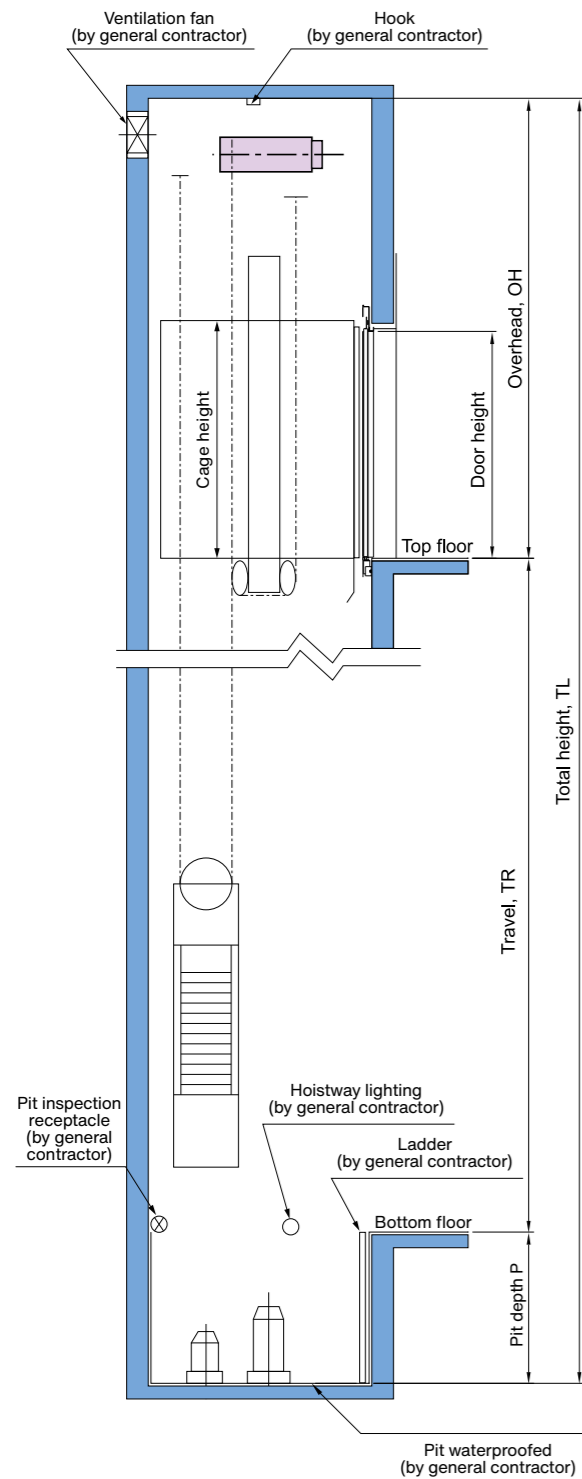
Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Max. Service Stops (s)	Max. Travel (m)							
				A×B	Height	Width	Height		X×Y	OH	P									
P8-CO60	W	550	1	1400×1100	2300	800	2100	Side	2190×1670	3820	1350	40	80							
P8-CO96	W		1.6			900			2290×1670											
P8-CO105	W		1.75			800			2190×1670	3970	1400									
						900			2290×1670											
P8-CO120	W		2			800			2190×1670	4020	1450									
						900			2290×1670											
P8-CO150	W		2.5			800			2190×1670	4220	1650									
						900			2290×1670											
P10-CO60	W	680	1	1400×1350	2300	800	2100	Side	2200×1780	3820	1350	40	100							
P10-CO96	W		1.6			900			2300×1780											
P10-CO105	W		1.75			800			2200×1780	3970	1400									
						900			2300×1780											
P10-CO120	W		2			800			2200×1780	4020	1450									
						900			2300×1780											
P10-CO150	W		2.5			800			2200×1780	4220	1650									
						900			2300×1780											
P13-CO60	W		900			1			1600×1400	2300	900			2100	Side	2400×1800	3820	1350	40	100
P13-CO96	W					1.6					1000					2500×1800				
		1100		2600×1800																
P13-CO105	W	1.75		900	2400×1800	3970	1400													
				1000	2500×1800															
P13-CO120	W	2		1100	2600×1800	4020	1450													
				900	2400×1800															
P13-CO150	W	2.5		1000	2500×1800	4220	1650													
				1100	2600×1800															

W: Wide car

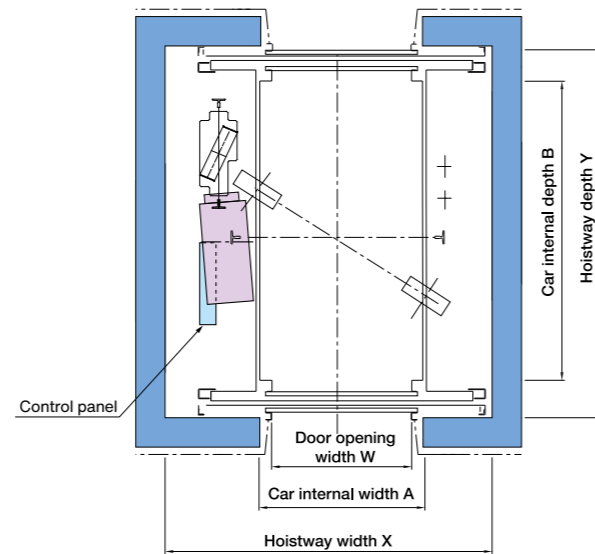
Note:

- The above table complies with GB7588:2003 standards.
- Please contact to our local distributor to check for other standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- Hoistway dimensions take into account the error of up to 50 mm after the construction work.
- The hoistway dimensions in chart are the minimum requirement.
- The hoistway structure wall must be 150mm thick or more.
- Piping, wiring and cables which is not relevant to elevator are prohibited inside the hoistway.
- OH value in the chart is for standard ceiling. As for the non-standard cars, please consult our local distributor.
- If the size of the hoistway is greater than the above sizes, OH will be larger. Please consult our local distributor.
- If the location of Power source panel, Control panel and Electric power supply are changed. Please consult our local distributor.

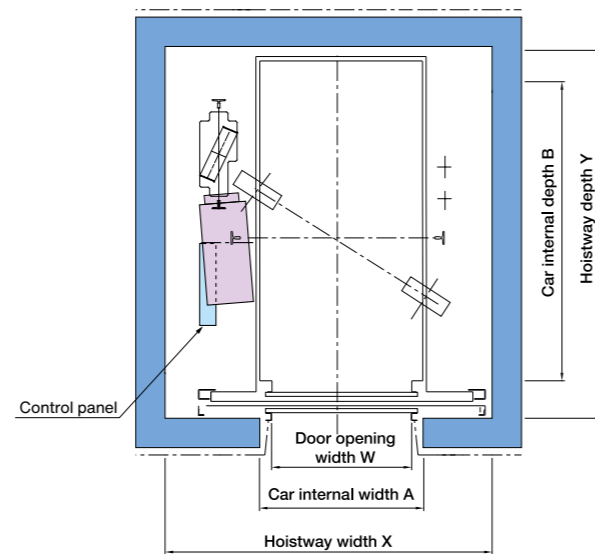
Hoistway Layout



Hoistway section



Typical floor hoistway plan (D2)



Typical floor hoistway plan (D)

Specifications

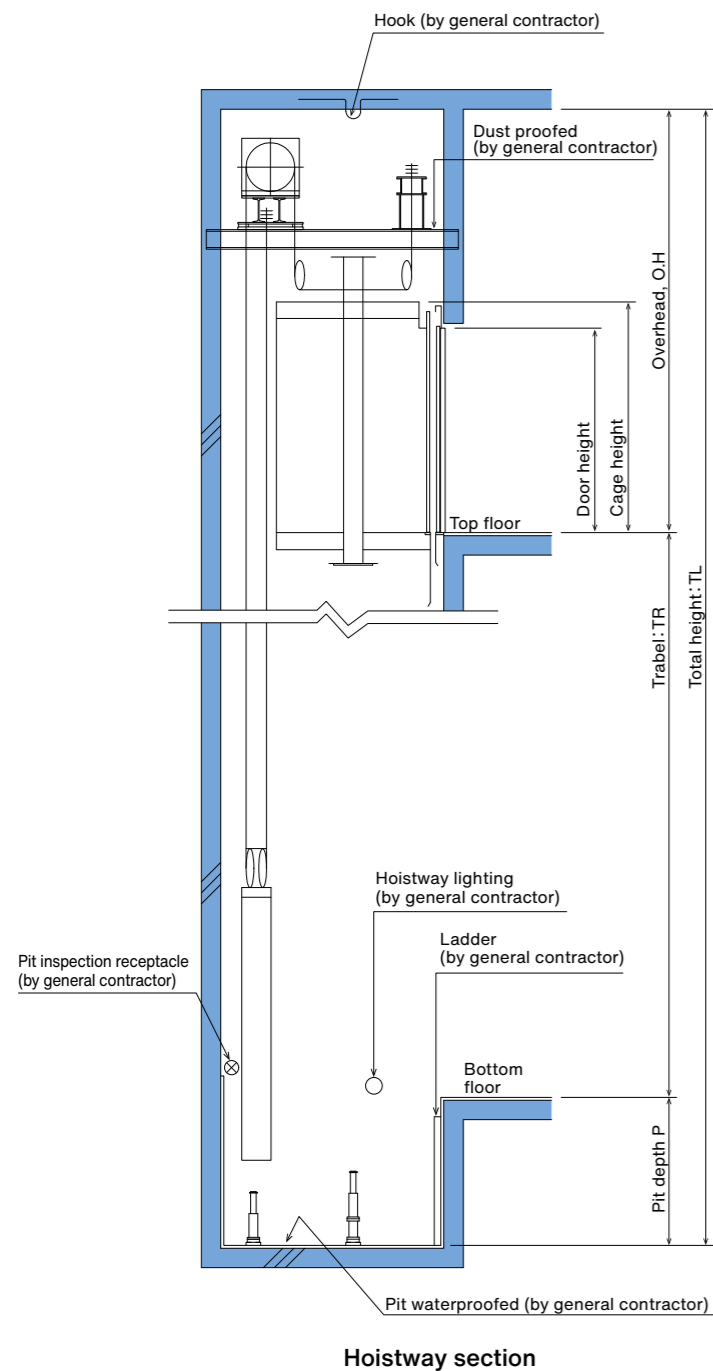
Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/V	Hoistway size (mm)			Max. Service Stops (s)	Max. Travel (m)
				A×B	Height	Width	Height		X×Y	OH	P		
P8-CO60	D		1			800			1990×1760	3820	1350		80
						900			2140×1760				
P8-CO96	D		1.6			800			1990×1760	3970	1400		
						900			2140×1760				
P8-CO105	D	8	550	1.75	1100×1400	2300	2100	Side	1990×1760	4020	1450	40	100
									900				
P8-CO120	D		2						1990×1760	4220	1650		
									900				
P8-CO150	D		2.5						1990×1760	4270	2100		
									900				
P10-CO60	D		1						2000×2060	3820	1350	40	80
	D2								900				
P10-CO96	D		1.6						2000×2170	3970	1400	40	
	D2								900				
P10-CO105	D	10	680	1.75	1100×1700	2300	2100	Side	2000×2060	4020	1450	40	100
	D2								900				
P10-CO120	D		2						2000×2170	4220	1650	40	
	D2								900				
P10-CO150	D		2.5						2000×2060	4270	2100	40	
	D2								900				
P13-CO60	D		1						2000×2460	3820	1350	40	80
	D2								900				
P13-CO96	D		1.6						2000×2570	3970	1400	40	
	D2								900				
P13-CO105	D	13	900	1.75	1100×2100	2300	2100	Side	2000×2460	4020	1450	40	100
	D2								900				
P13-CO120	D		2						2000×2570	4220	1650	40	
	D2								900				
P13-CO150	D		2.5						2000×2460	4270	2100	40	
	D2								900				
									2140×2570			*	

D: Deep car D2: Front and rear opening door *: Please consult our local distributor

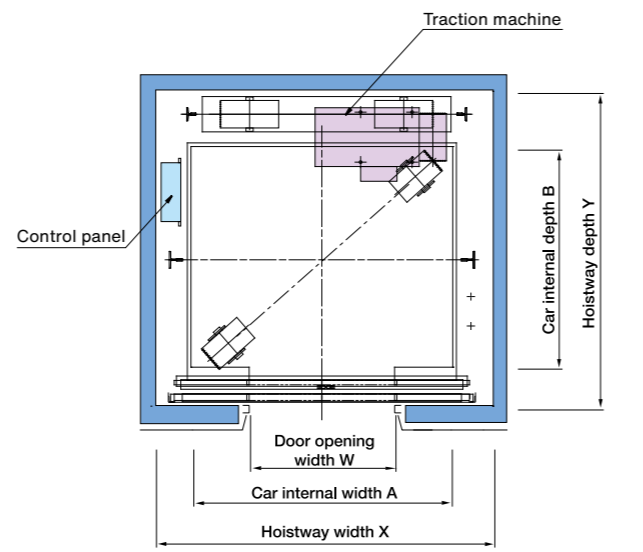
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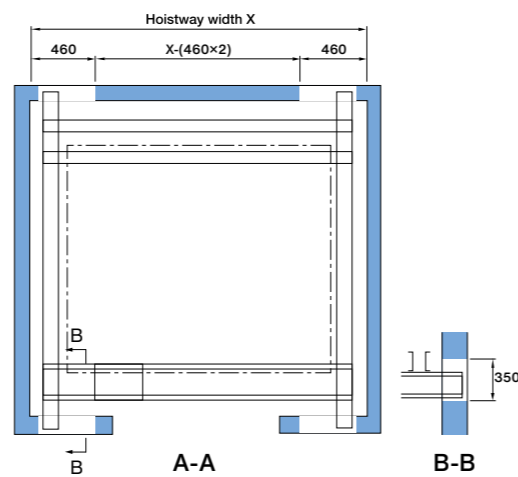
Hoistway Layout



Hoistway section

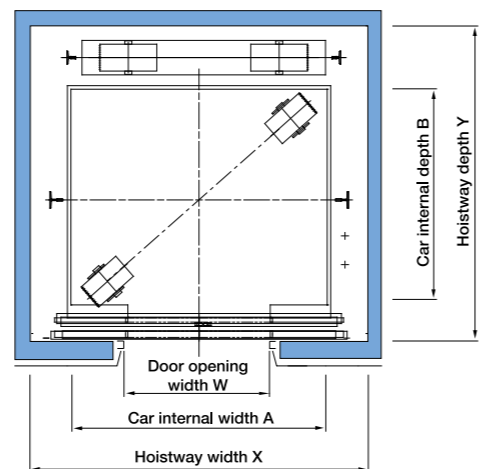


Top floor hoistway plan



A-A

B-B



Typical floor hoistway plan

Specifications

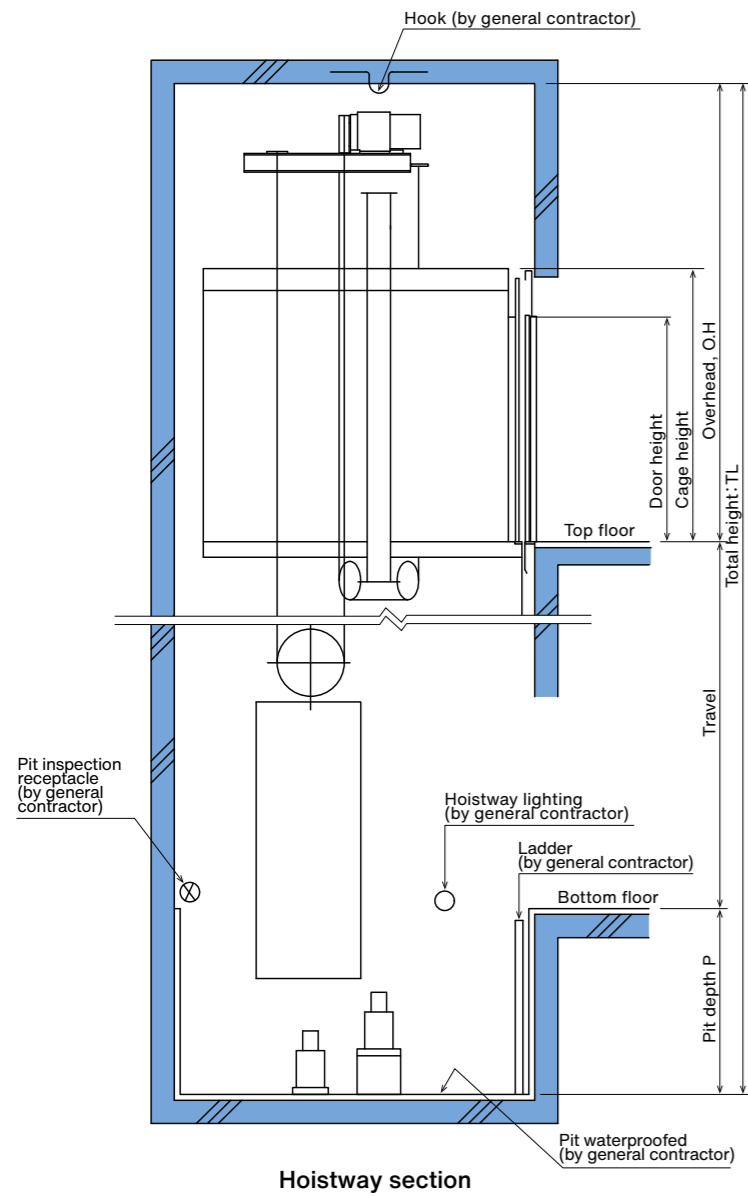
Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/V	Hoistway size (mm)			Max. Service Stops (s)	Max. Travel (m)		
				A×B	Height	Width	Height		X×Y	OH	P				
P17-CO60	W	1160	1	1800×1500	2300	1000	2100	Rear	2450×2170	4280	1380	48	100		
P17-CO96	W		1100			2550×2170									
P17-CO105	W		1.6			1000			2450×2170						
			1.75			1100			2550×2170						
P17-CO120	W		2			1000			2450×2170						
			2.5			1100			2550×2170						
P17-CO150	W		3			1000			2450×2170						
		1100	2550×2170												
P17-CO180	W	2600×2170	5350	2500	150										
P19-CO60	W	1300	1	2000×1500	2300	1100	2100	Rear	4280	1380	48	100			
P19-CO96	W		4450						1450						
P19-CO105	W		1.6						2650×2170	4510			1480		
			1.75						4600	1600					
P19-CO120	W		2						4900	2000			150		
			2.5						2800×2170	5350				2500	
P19-CO150	W		3						1100	2700×2170			150		
		1100	2700×2170												
P19-CO180	W	2800×2170	5350	2500	150										
P22-CO60	W	1500	1	2000×1700	2300	1100	2100	Rear	2700×2370	4280	1380	48	100		
P22-CO96	W		1.6			1200			2750×2370						
			1.75			1100			2700×2370						
P22-CO105	W		2			1200			2750×2370					4450	1450
			2.5			1100			2700×2370					4510	1480
P22-CO120	W		3			1200			2750×2370					4600	1600
			1100			2700×2370			4900					2000	
P22-CO150	W	1200	2750×2370	150											
		1100	2700×2370												
P22-CO180	W	2850×2370	5350	2500	150										
P25-CO60	W	1700	1	2100×1750	2300	1200	2100	Rear	4280	1380	48	100			
P25-CO96	W		1.6						2800×2420	4450			1450		
			1.75						4510	1480					
P25-CO105	W		2						4600	1600			150		
			2.5						4900	2000					
P25-CO120	W		3						5350	2500			80		
			2800×2420						4280	1380					
P25-CO150	W	1	2800×2620	4450	1450										
		1.6	4510	1480											
P25-CO180	W	1.75	4600	1600	48	100									
		2	4900	2000											
P28-CO60	W	2.5	2950×2620	5350	2500										
		3	4280	1380											
P28-CO96	W	1	4450	1450	48	100									
		1.6	4510	1480											
P28-CO105	W	1.75	4600	1600	150										
		2	4900	2000											
P28-CO120	W	2.5	5350	2500	80										
		2800×2620	4280	1380											
P28-CO150	W	3	2800×2620	4450	1450										
		1.6	4510	1480											
P28-CO180	W	1.75	4600	1600	48	100									
		2	4900	2000											
P28-CO180	W	2.5	2950×2620	5350	2500										
		3	4280	1380											

W: Wide car

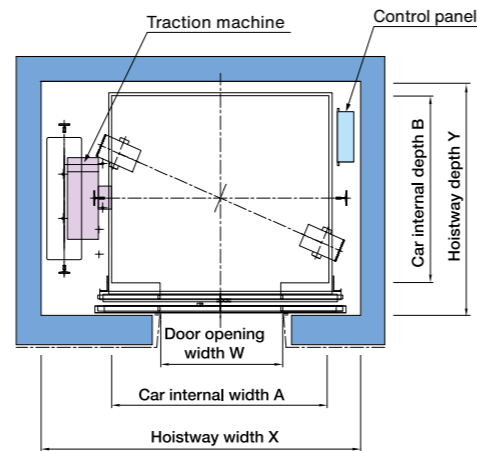
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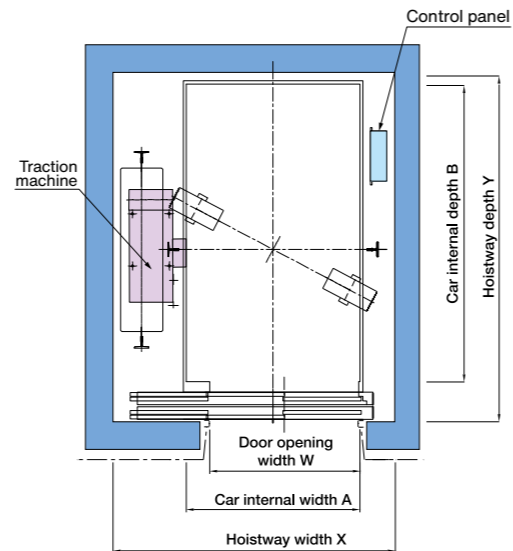
Hoistway Layout



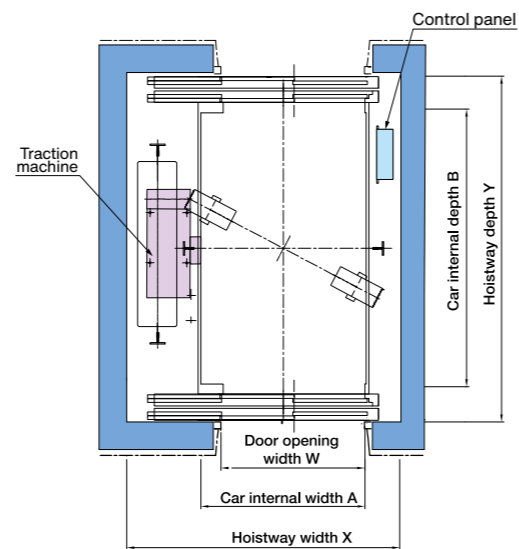
Hoistway section



Typical floor hoistway plan (W)



Typical floor hoistway plan (D)



Typical floor hoistway plan (D2)

Specifications

Type	Nos. of Person	Capacity (kg)	Speed (m/s)	Cage size Internal (mm)		Door entrance (mm)		C/W	Hoistway size (mm)			Max. Service Stops (s)	Max. Travel (m)								
				A×B	Height	Width	Height		X×Y	OH	P										
P17-CO60	W	1160	1	1800×1500	2300	1000	2100	Side	2750×1870	3810	1350	48	100								
P17-CO96	W		1.6			1100			2750×1870												
P17-CO105	W		1.75			1100			2850×1870												
P17-CO120	W		2			1100			2750×1870												
P17-CO150	W		2.5			1100			2850×1870												
P17-CO180	W		3			1100			2750×1870												
P17-CO60	W		1			1000			2850×1870												
P17-CO96	W		1.6			1100			4880					2900							
P17-CO105	W		1.75			1100			3810					1350							
P17-CO120	W		2			1100			3960					1450							
P17-CO150	W		2.5			1100			4020					1500							
P17-CO180	W		3			1100			4110					1650							
P19-CO60	W		1			2000×1400			2300					1100	2100	Side	2950×1830	4110	1650	48	100
P19-CO96	W		1.6			2000×1400			2300					1100	2100	Side	2950×1870	4110	1650	48	100
P19-CO105	W		1.75			2000×1400			2300					1100	2100	Side	2950×1870	4110	1650	48	100
P19-CO120	W		2			2000×1400			2300					1100	2100	Side	2950×1870	4110	1650	48	100
P19-CO150	W		2.5			2000×1400			2300					1100	2100	Side	2950×1870	4110	1650	48	100
P19-CO180	W	3	2000×1400	2300	1100	2100	Side	2950×1870	4110	1650	48	100									
P22-CO60	W	1500	1	2000×1700	2300	1100	2100	Side	2980×2110	3810	1400	48	100								
P22-CO96	W		1.6			1200			2980×2110												
P22-CO105	W		1.75			1100			3080×2110												
P22-CO120	W		2			1200			2980×2110												
P22-CO150	W		2.5			1100			3080×2110												
P22-CO180	W		3			1100			2980×2110												
P22-CO60	W		1			1200			3080×2110												
P22-CO96	W		1.6			1200			4110					1700							
P22-CO105	W		1.75			1200			2980×2110												
P22-CO120	W		2			1200			3080×2110												
P22-CO150	W		2.5			1100			2980×2110												
P22-CO180	W		3			1100			3080×2110												
P22-CO60	W		1			1200			4410					2100							
P22-CO96	W		1.6			1200			2980×2110												
P22-CO105	W		1.75			1200			3080×2110												
P22-CO120	W		2			1200			2980×2110												
P22-CO150	W		2.5			1200			3080×2110												
P22-CO180	W	3	1200	3130×2110																	
P22-CO60	W	1	2100×1750	2300	1200	2100	Side	3030×2130	4110	1700	48	100									
P22-CO96	W	1.6	2100×1750	2300	1200	2100	Side	3030×2130	4110	1700	48	100									
P22-CO105	W	1.75	2100×1750	2300	1200	2100	Side	3030×2130	4110	1700	48	100									
P22-CO120	W	2	2100×1750	2300	1200	2100	Side	3030×2130	4110	1700	48	100									
P22-CO150	W	2.5	2100×1750	2300	1200	2100	Side	3030×2130	4110	1700	48	100									
P22-CO180	W	3	2100×1750	2300	1200	2100	Side	3030×2130	4110	1700	48	100									
P25-CO60	W	1700	1	2100×1950	2300	1200	2100	Side	3180×2130	3810	1400	48	100								
P25-CO96	W		1.6			1200			3180×2130												
P25-CO105	W		1.75			1200			3180×2130												
P25-CO120	W		2			1200			3180×2130												
P25-CO150	W		2.5			1200			3180×2130												
P25-CO180	W		3			1200			3180×2130												
P25-CO60	W		1			1200			4410					2150							
P25-CO96	W		1.6			1200			4880					2900							
P25-CO105	W		1.75			1200			3810					1400							
P25-CO120	W		2			1200			3960					1500							
P25-CO150	W		2.5			1200			4020					1550							
P25-CO180	W		3			1200			4110					1700							
P25-CO60	W		1			1200			4410					2150							
P25-CO96	W		1.6			1200			4880					2900							
P25-CO105	W		1.75			1200			3810					1400							
P25-CO120	W		2			1200			3960					1500							
P25-CO150	W		2.5			1200			4020					1550							
P25-CO180	W	3	1200	4110	1700																
P28-CO60	W	1900	1	1200×2300	2300	1100	2100	Side	2180×2760	3810	1350	48	100								
P28-CO96	W		1.6			1100			2180×2760												
P28-CO105	W		1.75			1100			2180×2760												
P28-CO120	W		2			1100			2180×2760												
P28-CO150	W		2.5			1100			2180×2760												
P28-CO180	W		3			1100			2180×2760												
P28-CO60	W		1			1100			4410					2050							
P28-CO96	W		1.6			1100			4880					2900							
P28-CO105	W		1.75			1100			3810					1350							
P28-CO120	W		2			1100			3960					1450							
P28-CO150	W		2.5			1100			4020					1500							
P28-CO180	W		3			1100			4110					1650							
P28-CO60	W		1			1100			4410					2050							
P28-CO96	W		1.6			1100			4880					2900							
P28-CO105	W		1.75			1100			3810					1350							
P28-CO120	W		2			1100			3960					1450							
P28-CO150	W		2.5			1100			4020					1500							
P28-CO180	W	3	1100	4110	1650																
P17-2S60	D	1160	1	1400×2400	2300	1200	2100	Side	2380×2860	3810	1400	48	100								
P17-2S96	D		1.6			1100			2380×2860												
P17-2S105	D		1.75			1100			2380×2860												
P17-2S120	D		2			1100			2380×2860												
P17-2S150	D		2.5			1100			2380×2860												
P17-2S180	D		3			1100			2380×2860												
P17-2S60	D		1			1100			4410					2100							
P17-2S96	D		1.6			1100			4880					2900							
P17-2S105	D		1.75			1100			3810					1350							
P17-2S120	D		2			1100			3960					1450							
P17-2S150	D		2.5			1100			4020					1500							
P17-2S180	D		3			1100			4110					1650							
P17-2S60	D		1			1100			4410					2100							
P17-2S96	D		1.6			1100			4880					2900							
P17-2S105	D		1.75			1100			3810					1350							
P17-2S120	D		2			1100			3960					1450							
P17-2S150	D		2.5			1100			4020					1500							
P17-2S180	D	3	1100	4110	1650																
P16-2S60	D2	1100	1	1400×2300	2300	1200	2100	Side	2180×2970	3810	1400	48	100								
P16-2S96	D2		1.6			1100			2180×2970												
P16-2S105	D2		1.75			1100			2180×2970												
P16-2S120	D2		2			1100			2180×2970												
P16-2S150	D2		2.5			1100			2180×2970												
P16-2S180	D2		3			1100			2180×2970												
P16-2S60	D2		1			1100			4410					2100							
P16-2S96	D2		1.6			1100			4880					2900							
P16-2S105	D2		1.75			1100			3810					1350							
P16-2S120	D2		2			1100			3960					1450							
P16-2S150	D2		2.5			1100			4020					1500							
P16-2S180	D2		3			1100			4110					1650							
P16-2S60	D2		1			1100			4410					2100							
P16-2S96	D2		1.6			1100			4880					2900							
P16-2S105	D2		1.75			1100			3810					1350							
P16-2S120	D2		2			1100			3960					1450							
P16-2S150	D2		2.5			1100			4020					1500							
P16-2S180	D2	3	1100	4110	1650																

W: Wide car D: Deep car D2: Front and rear opening door *: Please consult our local distributor

Note:

- The above table complies with GB7588:2003 standards.
- Please contact to our local distributor to check for other standards.
- In case of travel is 40m or more, add 150mm to OH dimension and TC dimension at the above-stated dimension.
- Hoistway dimensions take into account the error of up to 50 mm after the construction work.
- The hoistway dimensions in chart are the minimum requirement.
- The hoistway structure wall must be 150mm thick or more.
- Piping, wiring and cables which is not relevant to elevator are prohibited inside the hoistway.
- OH value in the chart is for standard ceiling. As for the non-standard cars, please consult our local distributor.
- If the size of the hoistway is greater than the above sizes, OH will be larger. Please consult our local distributor.
- If the location of Power source panel, Control panel and Electric power supply are changed. Please consult our local distributor.

