

MCA

Machine Room Elevator Planning Guide

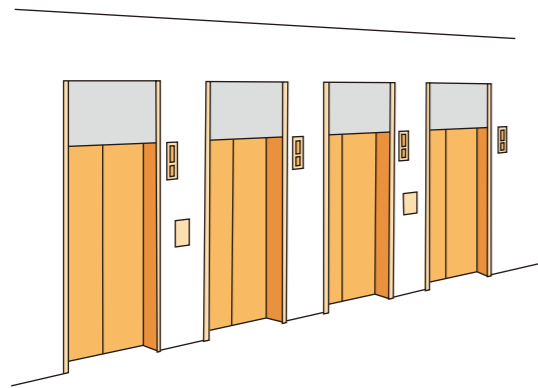
The information in this catalogue is subject to change without notice. The information and diagram in this catalogue reflect the technical features and configuration of the elevator model at press time (refer to the version number). In line with the principle of continuous development of products, our company reserves the right to change the selection of product technical parameters and colour at any time. The existing image technology cannot accurately reproduce the elevator component structure and decoration colour. Therefore, this catalogue only provides general information, not as a contract document. The specific configuration parameters are subject to the formal agreement.

If you need detailed information, please contact us.

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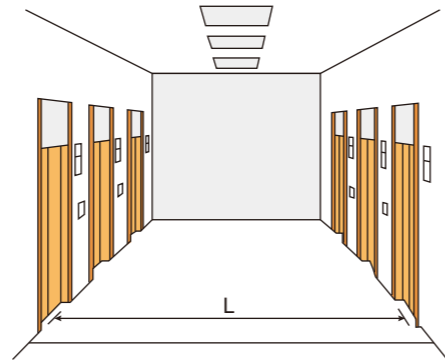
Rated Load (kg)	Number of Passengers ①	Rated Speed (m/min)	Maximum Number of Stops	Maximum Travel (m)	Maximum Travel with Fireman Operation (m)	Minimum Floor Height (mm)
450	6	60/90/105	60m/min:20 90m/min:40 105m/min:40	60m/min:60 90m/min:100 105m/min:100	—	2800
630	8		60/90/105/ 120/150/ 180	60m/min:60 90m/min:100 105m/min:100 120m/min:140 150m/min:140 180m/min:200	60m/min:58 90m/min:86 105m/min:99.5 120m/min:115 150m/min:140 180m/min:160	
825	11					
900	12					
1050	14					
1150	15					
1350	18					
1600	21	60/90/105/ 120/150	60m/min:22 90m/min:40 105m/min:40 120m/min:48 150m/min:48 180m/min:64	60m/min:60 90m/min:100 105m/min:100 120m/min:140 150m/min:140 180m/min:200	60m/min:58 90m/min:86 105m/min:99.5 120m/min:115 150m/min:140 180m/min:160	
1800	24					
2000	26					

Note:
 ① Passenger numbers calculated at 75kg per person.
 ② The above information are based on GB7588-2003 standards.

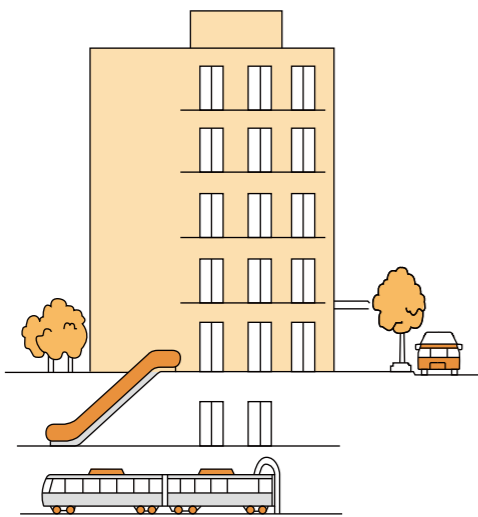


- Maximum in-line arrangement is 4 elevators.
- Elevators not in the same groups should not be set in the same line.
- Avoid placing the elevators entrance near pillars.

- Elevators in the same group with face-to-face arrangement, the distance of facing elevators (L) should be 3.5~4.5m.
- Elevators not in the same group with face-to-face arrangement, the distance of facing elevators (L) should be more than 6m.



- Elevators in the same group is recommended to have the same service floors.
- Elevators in the same group is recommended to have one base floor instead of having multiple access floors.



<FI Series> Implements Group Control in Response to Different Requirements of Different Buildings.

A group control system groups multiple elevators for achieving a well-balanced operation by taking waiting times into account. Such a system requires flexibility so that it can be used in various types and sizes of buildings and be responsive to changing traffic demand.

Please select the most suitable elevator system for the building you are planning.

FI-600 / FI-700 (3-8 Cars) ^②	FI-100 (3-6 Cars)	FI-10 (3-4 Cars)
Allows a flexible control for elevator car allocation and the required number of cars according to "Human Flow Prediction" and "Future Reference-Trajectory Control" for shortening the average waiting times.	Elevator cars are allocated at equal time intervals according to "Reference-Trajectory Control" for shortening the average waiting times and reducing the probability of a long wait.	Provides a ring control to allocate the elevator car closest to the the floor where a new hall call is registered.

Basic Specification	Instantaneous reservation and service forecasting		
	Intelligent Function		
	Human flow prediction		
	• Generation of new traffic flow modes		
	• Generation of optimum operation programs		
	Congested floor recognition		
	Energy-saving preference control		
	Learning Function		
	• Collection of usage data • Recognition of traffic flow mode • Search for optimum operation program (40/2 modes)		
	Arrival notice indication (Hall lantern and chimes)		
Bunching Prevention ①			
	Human flow prediction + Future reference-trajectory control + Forecasting dynamic allocation control	Reference-trajectory control	Ring control
	Forecasting dynamic allocation control	Zone distribution control	Fixed floor distribution control
System Name	FI-600 / FI-700	FI-100	FI-10 (Simplified Group Control)
Recommend Number of Cars in a Group	3~8 Cars ②	3~6 Cars	3~4 Cars
Type of Building	Large office building Luxurious hotel	Small office building Department store, hotel, hospital	Buildings with small traffic demand
Optional Specification	VIP service, Independent automatic operation		
	Service floor selection		
	Destination floor reservation system (DFRS) Centralised control for special floors Zoning express service		

Note:
 ① Bunching Prevention: Using the "Future reference-trajectory control" or the "Reference-trajectory control" in the FI-600 / FI-700 or FI-100, elevator cars are operated at equal time intervals to prevent local bunching.
 ② The FI-700 system supports a maximum of 16 operation control elevators.

Basic Function

● : Basic spec. ▲ : Optional spec. — : Not applicable

No.	Item	Content	FI-600/ FI-700	FI-100	FI-10
1	Instantaneous Reservation and Service Forecasting (FI-IRF)	Upon receipt of a hall call, this function activates an elevator to serve this call, and at the same time the call is acknowledged by the hall lantern and chime.	●	—	—
2	Arrival Notice Indication (FI-ANI)	Four to five seconds prior to the arrival of an elevator, this function will activate the hall lantern flickering and the chime sound.	●	●	▲
Basic Call Assignment Control					
3	Future Reference Trajectory Control (FI-FRTC)	Controls the allocation of elevator cars to hall calls according to the future reference trajectory resulting from learning-based daily traffic flows.	●	—	—
	Reference-Trajectory Control (FI-RTC)	Controls the allocation of elevator cars to hall calls based on the theory used in FI-600 / FI-700, and the intelligent-based data containing our know-how accumulated over a long period of time.	—	●	—
4	Personalised Control	Through the hall call assignment control of waiting time priority assignment, constantly carry out operation priority management in accordance with waiting time priority.	●	●	—
	Waiting Time Priority Assignment	Prevent long waiting time of passengers by implementation of hall call assignment.	●	●	—
	Riding Time Priority Assignment	Prevent long riding time of passengers by implementation of hall call assignment.	▲	▲	—
	Priority Allocation Based on Car Congestion Level	This system reduces the number of elevator cars in service when traffic demand is low.	▲	▲	—
Learning Function					
5	Collection of Usage Data (FI-CUD)	Collects the traffic status information by floor and direction for a unit time based on the elevator information such as car positions and the number of passengers getting on and off, and hall call information.	●	●	—
	Recognition of Traffic Flow Mode (FI-RTM)	Extracts characteristics at any given moment, including congested floors, from the collected usage data, and identifies the traffic flow mode at that moment.	● (40 modes)	● (2 modes)	—
	Search for Optimum Operation Program (FI-SOP)	Searches for the optimum operation program of the moment based on the identified traffic mode.	●	●	—
6	Congested Floor Recognition (FI-CFR)	Identifies congested floors according to the usage data learned in each traffic flow mode.	●	—	—
7	Service Forecasting for Hall Call Assignment (FI-SFH)	This function assigns elevator cars to hall calls more precisely by forecasting the arrival time and number of passengers in the car according to the learning-based traffic demand.	●	—	—
8	Generation of New Traffic Flow Modes (FI-GNT)	Extracts new characteristics according to the learning-based usage data, and registers them as a building-specific new traffic flow mode.	●	—	—
	Generation of Optimum Operation Programs (FI-GOP)	Generates an optimum operation program for a building by simulating the elevator operation according to the usage data learned in each traffic mode and preferential control target.	●	—	—
9	Energy-Saving Preference Control (FI-ESC)	This system reduces the number of elevator cars in service when traffic demand is low.	●	—	—
Floor Standby Control					
10	Forecasting Dynamic Allocation Control (FI-FDA)	Dynamically allocates elevator cars in response to continuously changing situations in the building by determining the area assigned to each car according to the forecasted number of passengers and car usage.	●	—	—
	Zone Distribution Control (FI-ZD)	Distributes the waiting elevator cars to the pre-assigned zones.	—	●	—
	Fixed Floor Distribution Control (FI-FD)	Distributes the waiting elevator cars to the pre-assigned floors.	▲ (FI-700 only)	—	●

Basic Function

● : Basic spec. ▲ : Optional spec. — : Not applicable

No.	Item	Content	FI-600/ FI-700	FI-100	FI-10
11	Human Flow Prediction (FI-HEP)	The next number of users is predicted from the elevator operation status. This is used to increase the predictive accuracy for congested time slots and improve service efficiency.	●	—	—
12	Learning-Based Concentrated Service (FI-LCS)	Centralises the service to the learning-based congested floors during peak times including morning, lunch time and evening peaks while taking the service for other floors into account.	●	—	—
13	Rush-Hour Schedule Operation (RHOS)	All the elevators will automatically return to the start base floor, after serving the last call during the preset rush-hour timing.	●	—	▲
14	Destination Floor Priority Control	The allocation will be priority when the destination floor and hall call floor is the same floor.	●	●	—
15	Full Car Forecasting Control	Control the new allocation according to the number of passengers in car and the times of new calls.	●	●	—
16	Full Car Control	Stop new allocation or re-allocate the car when full load.	●	●	—
17	Long Waiting Time Allocation Control	Re-allocate the cars when long waiting time situation is forecasted.	●	●	—
18	Notice Function	Keep the service elevator car door open with hall lantern flickering to guide the passengers.	▲	●	—
19	Automatic Door Open Time Control (FI-ADT)	This function automatically controls the duration of the door open time according to the floor and the kind of call (hall call or car call) as well as the elevator condition.	●	●	—

Optional Function

No.	Item	Content	FI-600/ FI-700	FI-100	FI-10
1	Centralised Control for Special Floors (FI-CCF)	This function preferentially assigns an elevator to the special floor (e.g. the director's room).	▲	—	—
2	Service Floor Selection (FI-SFS)	Allows the operator to select the service and non-service floors using, for example, the switches on the control panel.	▲	▲	—
3	VIP Service (FI-VIP)	When welcoming or sending off important guests, this function permits an elevator to be summoned directly to the desired car call floor by operating a specially provided switch.	▲	▲	▲
4	Destination Floor Reservation System (DFRS)	Each passenger registers their destination floor on the registration device located at the landing hall and knows in advance the designated elevator to take. System assigned one elevator for the passengers with the same destination floor. This helps to reduce congestion in the elevator lobby and improve efficiency.	▲	—	—
5	Zoning Express Services (FI-EZS)	Starts a divided express service when the peak traffic demand takes place in the preset time zones.	▲	—	—

Man-Machine Function

No.	Item	Content	FI-600/ FI-700	FI-100	FI-10
1	Mischiefous Call Cancellation	When large numbers of calls are registered by small number of passengers, the calls are determined to be mischiefous and will be automatically cancelled.	●	●	—
2	Hall Indicator	Inform passengers at the lobby the position of the elevator.	—	—	●

Elevator Function

Standard Function

Control System			
SA1	Selective Collective Control	SA2	Floor Height Self Measurement
SA3	On-Cage (Car Top) Maintenance Operation	SA4	In-Cage Slow Speed Operation
SA5	Machine Room Debugging Operation		
System Protection			
SB1	Overspeed Electrical Protection	SB2	Overspeed Mechanical Protection
SB3	Rope Slipping Running Protection	SB4	Motor Overload (Thermal) Protection
SB5	Automatic Fault Detection	SB6	Automatic Fault Recording
SB7	Standby Regular Auto-Check	SB8	Double Brake-Safety Check Operation
SB9	Synchronous Motor Magnetic Pole Test	SB10	Lift Position Abnormity Auto-Correction Function
SB11	Nearest Landing Operation	SB12	Anti-Electromagnetic Interference
SB13	Unintended Car Movement Protection, UCMP Function (SIL3) ①	SB14	Ascending Car Overspeed Protection, ACOP Function (SIL3)
SB15	Motor Energy Saving Control	SB16	Self Diagnosis Inverter
SB17	Intelligent Auxiliary Brake Function		
Safe Communication			
SC1	Car Intercom Communication	SC2	Car Top Intercom Communication
SC3	Pit Intercom Communication		
Safe Riding			
SD1	Alarm System	SD2	Door Safety Return System
SD3	Full Load Bypass Operation	SD4	Overload Detection System
SD5	Overload Alarm	SD6	Next Drive (Door Open Abnormity)
SD7	Door Opening/Closing Time Abnormity Protection	SD8	Automatic Door Dwell Time Control
SD9	Automatic Door Dwell Time Adjustment	SD10	Number of Runs Indicator
SD11	Intelligent Multi-Beam Protection	SD12	Current Floor Push-Button Reopening Function
SD13	Maintenance Indication at Hall Indicator	SD14	Overload Indicator (In Car)
SD15	Emergency Terminal Stopping Device, ETSD (SIL3) (For Rated Speed 180m/min)		
Emergency Solution			
SE1	Out of Door-Open Zone Alarm	SE2	Car Emergency Lighting
SE3	Fire Emergency Operation (Automatic)	SE4	Emergency Electric Operation (SIL3)
Design for Comfort			
SF1	Parking Operation	SF2	Automatic Return Function
SF3	Start Torque Auto-Adjustment	SF4	Door-Stop Function (Maintenance)
SF5	Micro Levelling (Travel ≥ 45m)	SF6	Advance Door Opening (Rated Speed ≥ 120m/min)
SF7	Mischievous Call Cancellation (Applicable for Simplex, Duplex, FI-100, FI-600 and FI-700 only)	SF8	Opposite Direction Car Call Cancellation
SF9	Car Light Auto Turn-off	SF10	Car Fan Auto Turn-Off
SF11	Abnormal Duration Hall Call Detection (Applicable for Simplex, Duplex and FI-10 only)	SF12	Car Floor Button Flashing
SF13	Car Call Deselect Function	SF14	Step-Less Speed Control
SF15	Door Bypass Detection	SF16	Overloading Hall Call Recovery Function (Applicable for Simplex, Duplex and FI-10 only)
SF17	Manual Setting for Start Base Floor Function (Applicable for Simplex only)	SF18	Limit Illumination of Registered Car Calls
SF19	Manual Micro Levelling	SF20	Intelligent Broadcast System ①
SF21	Elevator Sleep Function		

Note:

① For details, please contact us.

Elevator Function

Optional Function

Control System			
OA1	Down Collective Control	OA2	Duplex Collective Control
OA3	FI-10 Group Control System ①	OA4	FI-100 Group Control System ①
OA5	FI-600 Group Control System ①	OA6	FI-700 Group Control System ①
OA7	Independent Automatic Operation ① (For Duplex and Group Control)	OA8	VIP Service (For Duplex and Group Control)
OA9	Rush Hour Schedule Operation (Applicable for FI-10, FI-600 and FI-700 only)		
Safe Communication			
OB1	Interphone System (5 Ways) (5 Ways: Monitoring Center, Machine Room, In Car, Car Top and Pit.)		
Safe Riding			
OC1	IC Card Security System (In Car) ① (Not Applicable with OC2, OC4, OC5 or OE5)	OC2	IC Card Security System (Hall) ① (Not Applicable with OC1, OC4, OC5 or OE5)
OC3	Multi-Beam + Safety Edge Protection	OC4	Hitachi Smart Security [ITM] Interface (Not Applicable with OC1, OC2, OC5 or OE5)
OC5	Intercom Linkage Interface for Elevator Access (Not Applicable with OC1, OC2, OC4 or OE5)	OC6	Contact at Control Panel (RS485)
OC7	Contact at Control Panel (Dry Contacts) (Not Applicable with OC8)	OC8	Supervisory Panel (Dry Contact Type) (Not Applicable with OC7)
OC9	Elevator Monitoring System (Computer Type)	OC10	Twisted Pair Cable (1 Pair) for CCTV Interface
OC11	Twisted Pair Cable (1 Pair) for BGM Interface		
Emergency Solution			
OD1	Fireman Operation (Rated Load ≥ 825kg)	OD2	Automatic Rescue Device (ARD) (Maximum Travel Distance Between Landings ≤ 30m)
OD3	Emergency Operation for Power Failure (Manual)	OD4	Emergency Operation for Power Failure (Auto)
OD5	Earthquake Emergency Operation	OD6	Pit Flood Operation
Design for Comfort			
OE1	Attendant Operation	OE2	Independent Operation
OE3	Voice Synthesiser (Not Applicable with SF20)	OE4	Arrival Chime (Car Top and Bottom)
OE5	Floor Lockout Operation (Not Applicable with OC1, OC2, OC4 or OC5)	OE6	Door Opening Prolong Button
OE7	Regenerative System Function ①	OE8	Double Opening Function ① (Applicable for Simplex, Duplex or FI-10 only)
OE9	Sub Car Operating Panel	OE10	Electromagnetic Compatibility (EMC) Function
OE11	Horizontal Car Operating Panel	OE12	Braille Button
OE13	Hall Lantern with Arrival Chime Interface ①	OE14	Operation Status Indication at Hall Indicator
OE15	Destination Floor Reservation System, DFRS ① (Under FI-600 or FI-700)	OE16	Ultraviolet, UV Sterilisation Function ①
OE17	Hall Call Deselect Function ① (Applicable for Simplex, Duplex or FI-10 with Single Opening only)	OE18	Quick Door Closing Function (In Car)
OE19	Hall Lantern with Arrival Chime ①	OE20	Micro Levelling (Travel < 45m)
OE21	Advance Door Opening (Rated Speed < 120m/min)	OE22	Nighttime Protective Operation

Note:

① For details, please contact us.

Overhead Height and Pit Depth

Rated Load (kg)	Rated Speed (m/min)	Overhead Height, OH (mm)		Pit Depth, PIT (mm)	
		Travel ≤ 70m	Travel > 70m	Travel ≤ 70m	Travel > 70m
450	60	4550	—	1450	—
	90	4700	—	1450	—
	105	4750	—	1500	—
630	60	4350	—	1450	—
	90	4450	—	1450	—
	105	4550	—	1500	—
825	60	4350	—	1450	—
	90	4450	—	1450	—
	105	4550	—	1500	—
	120	4700	—	1600	—
	150	5100	—	1900	—
900	60	4350	—	1450	—
	90	4450	—	1450	—
	105	4550	—	1500	—
	120	4700	—	1600	—
	180	5100	—	1900	—
1050	60	4350	—	1450	—
	90	4450	—	1450	—
	105	4550	—	1500	—
	120	4700	—	1600	—
	180	5100	—	1900	—
1050 (Deep Car)	60	4350	—	1450	—
	90	4450	—	1450	—
	105	4550	—	1500	—
	120	4700	—	1600	—
	180	5100	—	1900	—
1050 (Wide Car)	60	4350	—	1450	—
	90	4450	—	1450	—
	105	4550	—	1500	—
	120	4700	—	1600	—
	180	5100	—	1900	—

- Note:
- ① The above information are based on GB7588-2003 standards.
 - ② The overhead height, OH is based on bare ceiling height of 2450mm.
 - ③ The pit depth, PIT is based on vinyl tile finish without recess.
 - ④ Configuration is without counterweight safety gear.
 - ⑤ Configuration is based on decoration weight provision up to 120kg.

Overhead Height and Pit Depth

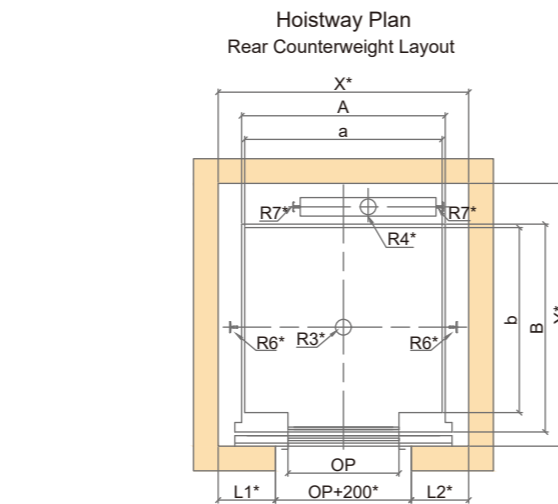
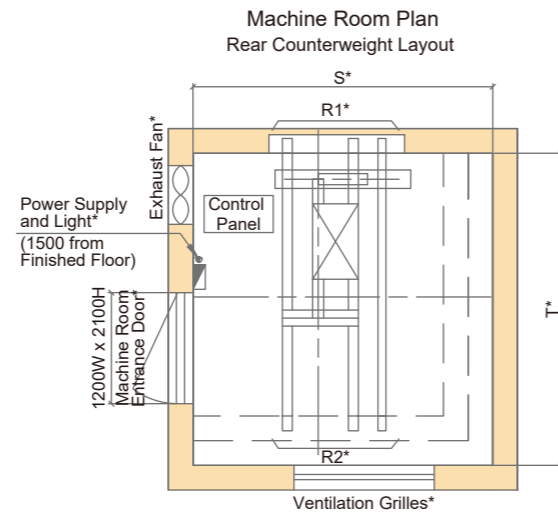
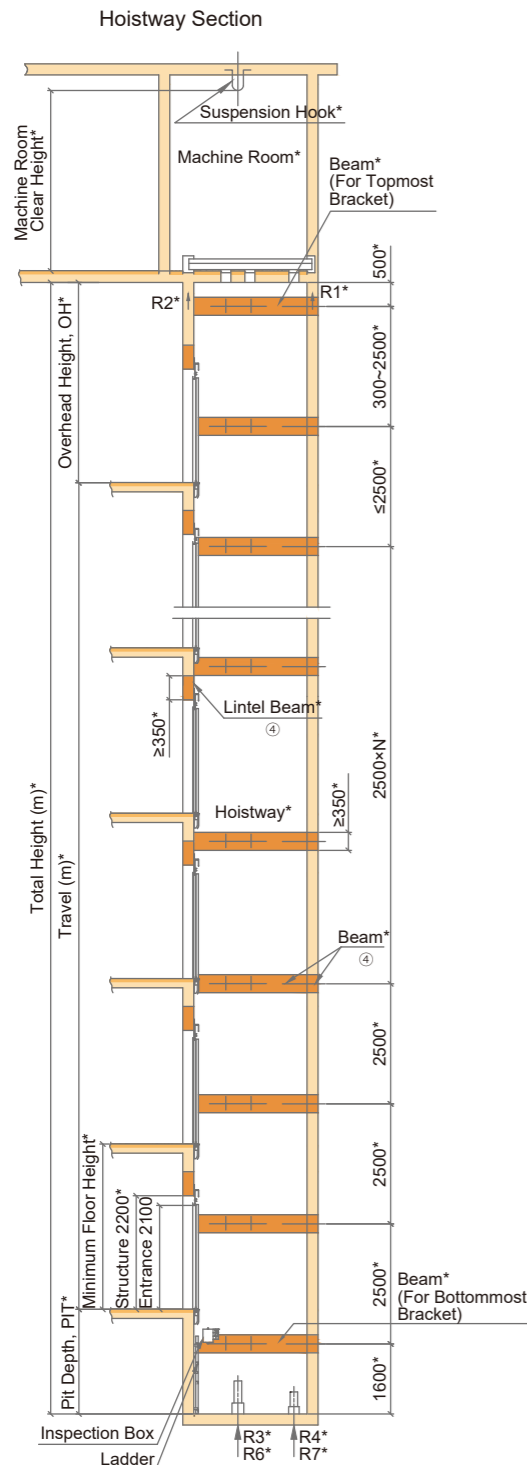
Rated Load (kg)	Rated Speed (m/min)	Overhead Height, OH (mm)				Pit Depth, PIT (mm)			
		Rear Counterweight		Side Counterweight		Rear Counterweight		Side Counterweight	
		Travel ≤ 70m	Travel > 70m	Travel ≤ 70m	Travel > 70m	Travel ≤ 70m	Travel > 70m	Travel ≤ 70m	Travel > 70m
1150	60	4550	—	4550	—	1450	—	1450	—
	90	4650		4650		1550	1600	1550	1600
	105	4800		4800		1550	1600	1550	1600
	120	4850		4850		1600	1650	1600	1650
	180	5100		5100		1900		1900	
1350	60	4550	—	4550	—	1450	—	1450	—
	90	4650		4650		1550	1600	1550	1600
	105	4800		4800		1550	1600	1550	1600
	120	4850		4900		1600	1650	1650	1650
	180	5100		5100		1900		1900	
1600	60	4550	—	4550	—	1450	—	1450	—
	90	4650		4650		1550	1600	1550	1600
	105	4800		4800		1550	1600	1550	1600
	120	4850		4900		1600	1650	1650	1650
	180	5100		5100		1900		1900	
1800	60	4450		4450		1250		1250	
	90	4550		4950		1450		1450	
	105	4600		5000		1450		1450	
	120	4650		5050		1500		1500	
	150	4900		5150		1800		1800	
2000	60	4450		4450		1250		1250	
	90	4550		5100		1450		1450	
	105	4600		5150		1450		1450	
	120	4650		5200		1500		1500	
	150	4900		5300		1800		1800	

- Note:
- ① The above information are based on GB7588-2003 standards.
 - ② The overhead height, OH is based on bare ceiling height of 2450mm.
 - ③ The pit depth, PIT is based on vinyl tile finish without recess.
 - ④ Configuration is without counterweight safety gear.
 - ⑤ Configuration is based on the following decoration weight provision:
 For rated load 1150~1350kg, decoration weight provision shall be up to 500kg.
 For rated load 1600kg with travels ≤ 150m, decoration weight provision shall be up to 500kg.
 For rated load 1600kg with 150m < travels ≤ 200m, decoration weight provision shall be up to 250kg.
 For rated load 1800~2000kg, decoration weight provision shall be up to 1200kg.

Hoistway and Machine Room

The followings shall be furnished by building contractors:

- Building Structure
- Wall and Floor Finishes
- Beam



- Note:
- ① The above information are based on GB7588-2003 standards.
 - ② Items with "*" shall be furnished by building contractors.
 - ③ Unit of dimension shall be in mm unless otherwise stated.
 - ④ The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforced concrete wall. If you have other situations, please contact us.
 - ⑤ For hoistway and machine room details, please contact us.
 - ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hook Capacity (Tons)
450/630/825/900/1050	60/90/105	2100	3
825/900/1050	120/150	2450	4

Hoistway and Machine Room

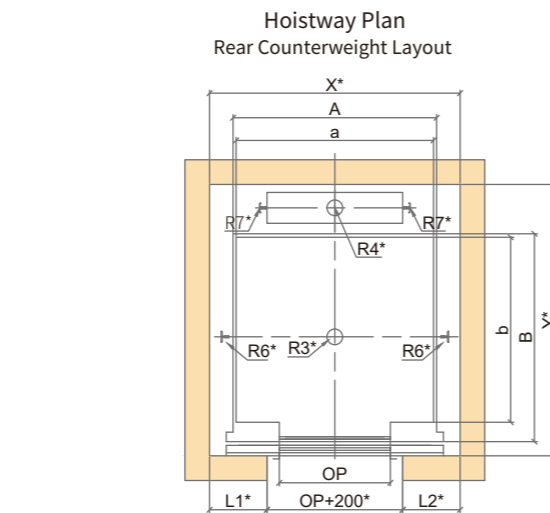
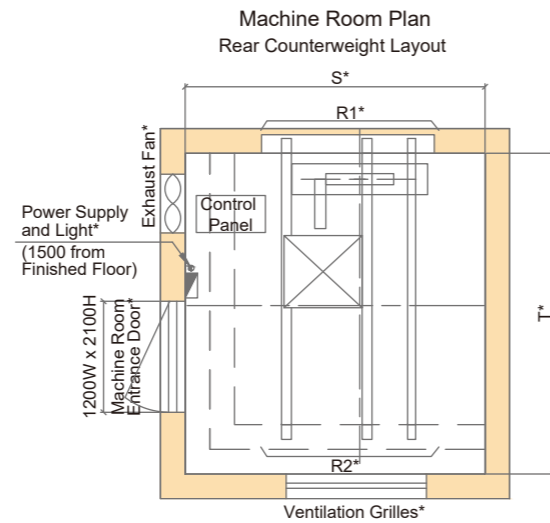
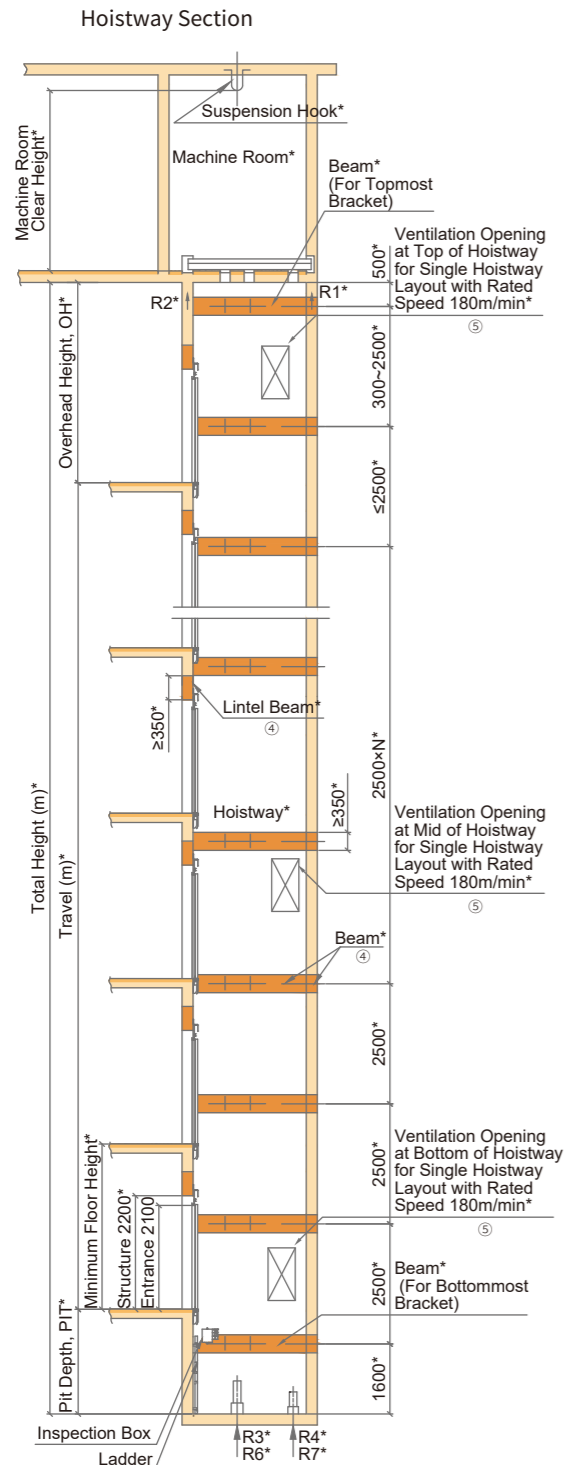
Rated Load (kg)	Rated Speed (m/min)	Car Size (mm)		Door Opening (mm)		Front Wall Arrangement (mm)		Hoistway Size (mm) X×Y	Machine Room Size (mm) S×T	Machine Room Reaction Force (KN)		Pit Reaction Force (KN)				
		Car Inside (axb)	Car Outside (AxB)	Type	Width OP	L1	L2			R1	R2	R3	R4	R6	R7	
450	60	1200×1000	1250×1185	2P-CO	800	375	375	1750×1580	1800×1880	48.5	30	95	82	29	3	
	90									51	31.5	101	88	34	5	
	105									51	31.5	101	88	34	5	
630	60	1400×1100	1450×1285	2P-CO	800	415	415	1830×1680	1830×1880	48.5	30	95	82	29	3	
	90									51	31.5	101	88	34	5	
	105									51	31.5	101	88	34	5	
825	60	1400×1350	1450×1535	2P-CO	800	415	415	1830×1930	1830×1930	58	34.5	113	95	37	3	
	90									61	36	120	103	44	5	
	105									73.2	47	153	132	55	7	
	120							78	48	160	148	57	7			
	150							78	48	160	148	57	7			
	60							1400×1300	1450×1485	2P-CO	800	415	415	1830×1880	1830×1880	58
	90	61	36	120	103	44	5									
	105	73.2	47	153	132	55	7									
	120	78	48	160	148	57	7									
	150	78	48	160	148	57	7									
	60	1300×1400	1350×1585	2P-CO	800	400	400							1800×1980	1830×1980	58
	90							61	36	120	103	44	5			
105	73.2							47	153	132	55	7				
120	78							48	160	148	57	7				
150	78							48	160	148	57	7				
900	60							1600×1350	1650×1535	2P-CO	900	465	465	2030×1930	2030×1930	63
	90	67	39	131	112	48	5									
	105	74.5	48	158	136	58	7									
	120	82	50	165	160	61	7									
	150	82	50	165	160	61	7									
	1050	60	1600×1500	1650×1685	2P-CO	900	465							465	2030×2080	2030×2080
90		69.5						42	145	123	50	5				
105		78						48.5	166	140	60	7				
120		89						55	175	168	64	7				
150		89						55	175	168	64	7				
60		1600×1400						1650×1585	2P-CO	900	465	465	2030×1980		2030×1980	66
90			69.5	42	145	123	50							5		
105			78	48.5	166	140	60							7		
120			89	55	175	168	64						7			
150			89	55	175	168	64						7			
60			1500×1500	1550×1685	2P-CO	900	430						430	1960×2080	1960×2080	66
90		69.5						42	145	123	50	5				
105	78	48.5						166	140	60	7					
120	89	55						175	168	64	7					
150	89	55						175	168	64	7					
60	1400×1600	1450×1785						2P-CO	900	430	430	1960×2180		1960×2180	66	40
90			69.5	42	145	123	50						5			
105			78	48.5	166	140	60						7			
120			89	55	175	168	64					7				
150			89	55	175	168	64					7				
60			1500×1600	1550×1785	2P-CO	900	430					430	1960×2180	1960×2180	66	40
90	69.5	42						145	123	50	5					
105	78	48.5						166	140	60	7					
120	89	55						175	168	64	7					
150	89	55						175	168	64	7					

- Note:
- ① The above information are based on GB7588-2003 standards.
 - ② The above information and configuration are based on rear counterweight layout.
 - ③ Configuration is without counterweight safety gear.

Hoistway and Machine Room

The followings shall be furnished by building contractors:

- Building Structure
- Wall and Floor Finishes
- Beam



- Note:
- ① The above information are based on GB7588-2003 standards.
 - ② Items with "*" shall be furnished by building contractors.
 - ③ Unit of dimension shall be in mm unless otherwise stated.
 - ④ The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforced concrete wall. If you have other situations, please contact us.
 - ⑤ For hoistway and machine room details, please contact us.
 - ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hook Capacity (Tons)
1150/1350/1600	60/90/105/120/150	2450	4
825/900/1050/1150/1350/1600	180	2450	4

Hoistway and Machine Room

Rated Load (kg)	Rated Speed (m/min)	Car Size (mm)		Door Opening (mm)		Front Wall Arrangement (mm)		Hoistway Size (mm) X×Y	Machine Room Size (mm) S×T	Machine Room Reaction Force (KN)		Pit Reaction Force (KN)				
		Car Inside (axb)	Car Outside (AxB)	Type	Width OP	L1	L2			R1	R2	R3	R4	R6	R7	
1150	60	1800×1500	1850×1685	2P-CO	1000	550	550	2300×2200	2300×2200	82	54	165	154	51	5.5	
	90									89	58	183	175	58	9	
	120									92	60	192	184	68	13	
	150									92	60	192	184	68	13	
1350	60	2000×1500	2050×1685	2P-CO	1100	625	625	2550×2200	2550×2200	116	91	201	171	66	11	
	90									131	96	233	202	76	15	
	120									136	101	243	212	91	16	
	150									136	101	243	212	91	16	
1600	60	2000×1750	2050×1935	2P-CO	1100	625	625	2550×2450	2550×2450	126	96	211	181	71	11	
	90									136	101	243	212	81	15	
	120									136	101	243	212	81	15	
	150									141	101	263	222	96	16	

- Note:
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Rated Load (kg)	Rated Speed (m/min)	Car Size (mm)		Door Opening (mm)		Front Wall Arrangement (mm)		Hoistway Size (mm) X×Y	Machine Room Size (mm) S×T	Machine Room Reaction Force (KN)		Pit Reaction Force (KN)				
		Car Inside (axb)	Car Outside (AxB)	Type	Width OP	L1	L2			R1	R2	R3	R4	R6	R7	
825	180	1400×1350	1450×1535	2P-CO	800	425	425	1850×2050	2250×2050	116	85	209	188	75	13	
		1400×1300	1450×1485			400	400	1800×2100	2225×2100							
		1300×1400	1350×1585			400	400	1800×2100	2225×2100							
900	180	1600×1350	1650×1535	2P-CO	900	475	475	2050×2050	2350×2050	118	88	219	188	77	13	
		1600×1500	1650×1685			475	475	2050×2200	2350×2200							
		1600×1400	1650×1585			475	475	2050×2100	2350×2100							
		1500×1500	1550×1685			475	475	2000×2200	2350×2200							
1050	180	1400×1600	1450×1785	2P-CO	900	450	450	2000×2300	2350×2300	122	89	220	190	78	13	
		1500×1600	1550×1785			450	450	2000×2300	2350×2300							
		1800×1500	1850×1685			450	450	2000×2300	2350×2300							
1150	180	1800×1500	1850×1685	2P-CO	1000	550	550	2300×2200	2300×2200	133	94	228	197	82	18	
1350	180	2000×1500	2050×1685	2P-CO	1100	625	625	2550×2200	2550×2200	136	101	246	214	93	18	
1600	180	2000×1750	2050×1935	2P-CO	1100	625	625	2550×2450	2550×2450	141	101	263	222	96	18	

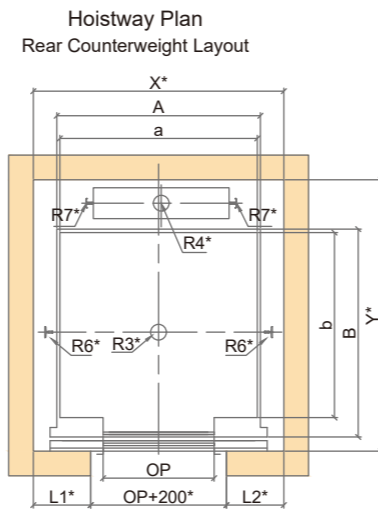
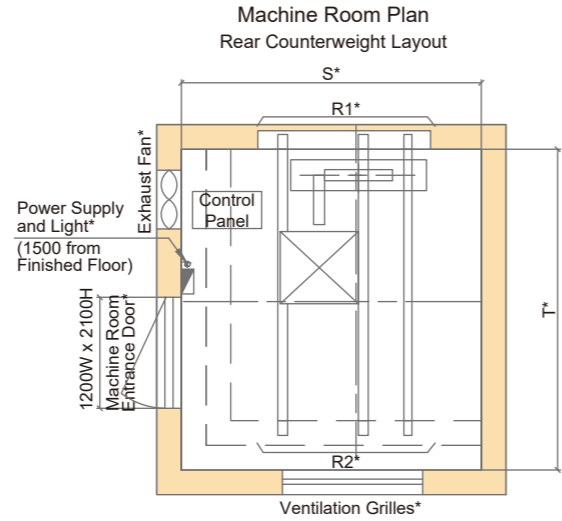
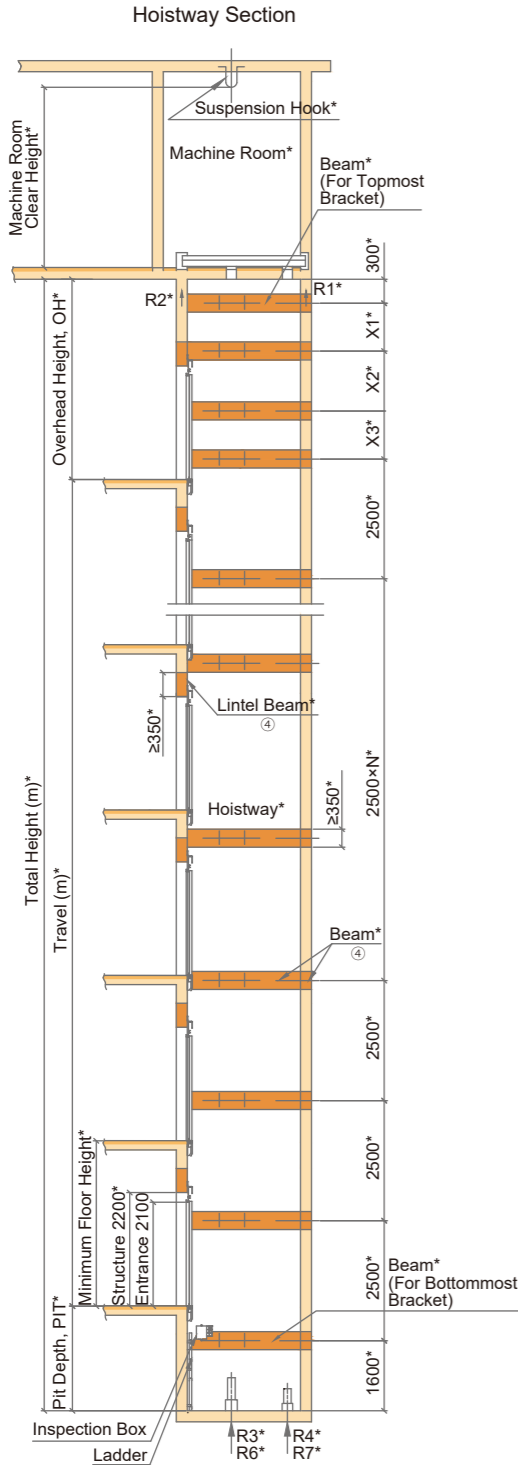
- Note:
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 - ③ Configuration is without counterweight safety gear.

Hoistway and Machine Room

Hoistway and Machine Room

The followings shall be furnished by building contractors:

- Building Structure
- Wall and Floor Finishes
- Beam



- Note:
- ① The above information are based on GB7588-2003 standards.
 - ② Items with "*" shall be furnished by building contractors.
 - ③ Unit of dimension shall be in mm unless otherwise stated.
 - ④ The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforced concrete wall. If you have other situations, please contact us.
 - ⑤ For hoistway and machine room details, please contact us.
 - ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hook Capacity (Tons)
1800/2000	60/90/105/120/150/180	2500	4

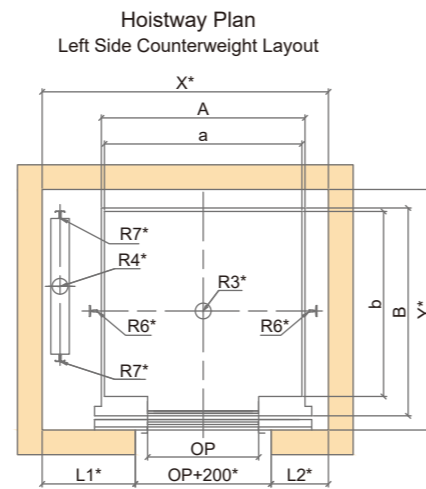
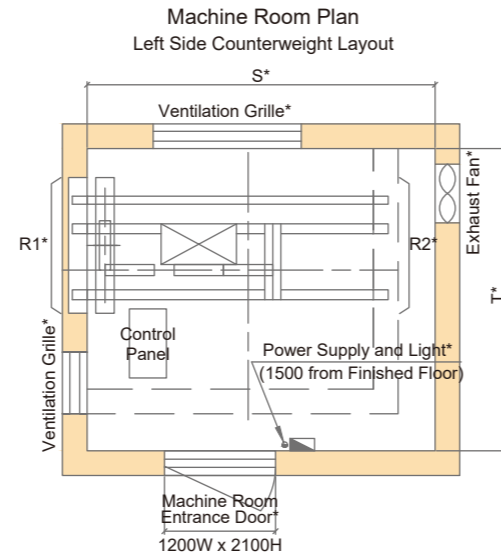
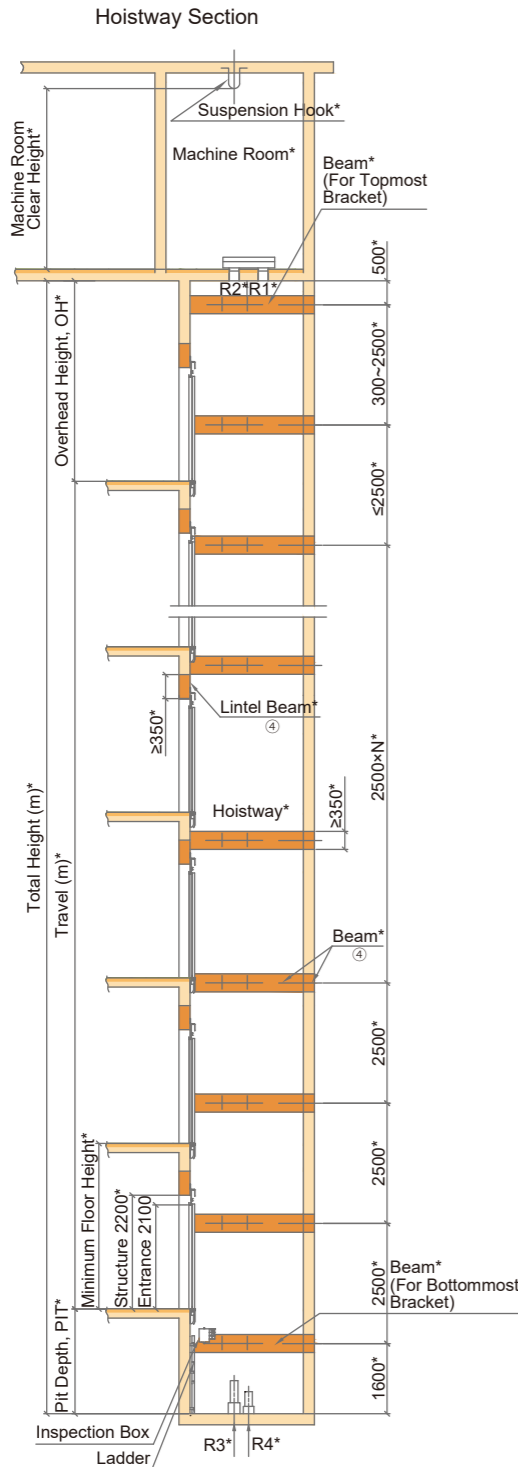
Rated Load (kg)	Rated Speed (m/min)	Car Size (mm)		Door Opening (mm)		Front Wall Arrangement (mm)		Hoistway Size (mm)	Machine Room Size (mm)	Machine Room Reaction Force (KN)		Pit Reaction Force (KN)				
		Car Inside (axb)	Car Outside (AxB)	Type	Width OP	L1	L2			X×Y	S×T	R1	R2	R3	R4	R6
1800	60	2200×1700	2250×1885	2P-CO	1200	650	650	2700×2400	2950×2400	175	125	245	205	85	20	
	90									185	125	260	220	100	25	
	105									190	130	270	230	110	30	
	120									190	130	270	230	110	30	
2000	60	2200×1850	2250×2035	2P-CO	1200	650	650	2700×2550	2950×2550	185	125	260	215	90	20	
	90									190	130	270	225	100	25	
	105									195	135	280	235	115	30	
	120									195	135	280	235	115	30	

- Note:
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 - ② The above information and configuration are based on rear counterweight layout.
 - ③ Configuration is without counterweight safety gear.

Hoistway and Machine Room

The followings shall be furnished by building contractors:

- Building Structure
- Wall and Floor Finishes
- Beam



- Note:
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 - ② Items with "*" shall be furnished by building contractors.
 - ③ Unit of dimension shall be in mm unless otherwise stated.
 - ④ The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforced concrete wall. If you have other situations, please contact us.
 - ⑤ For hoistway and machine room details, please contact us.
 - ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hook Capacity (Tons)
450/630/825/900/1050	60/90/105	2100	3
825/900/1050	120/150	2450	4

Hoistway and Machine Room

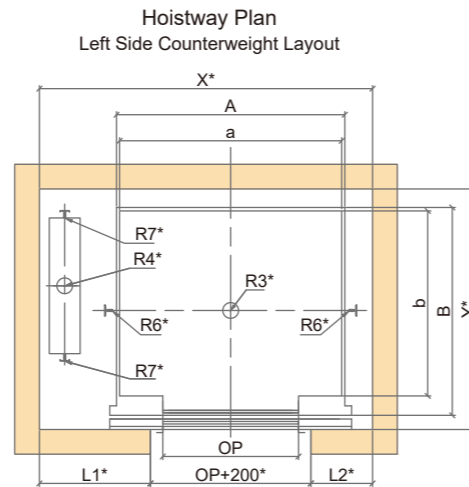
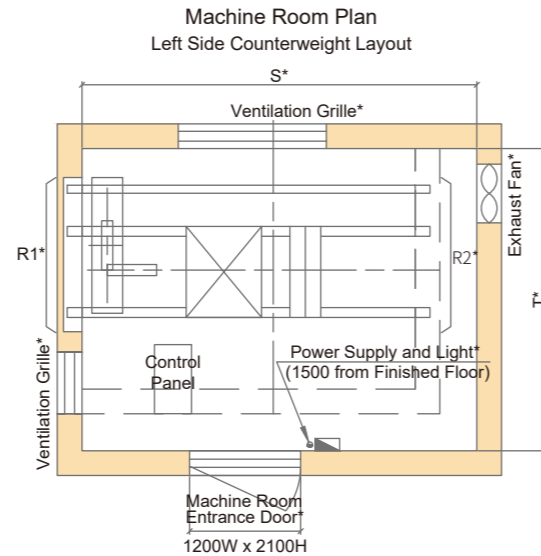
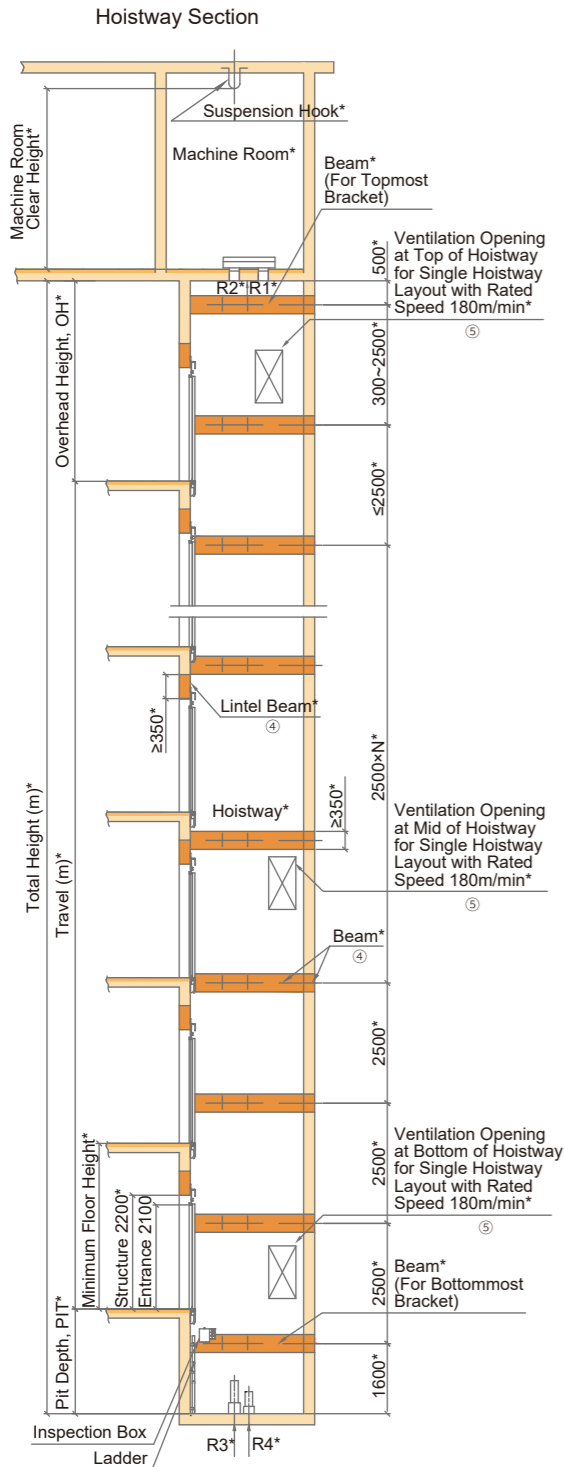
Rated Load (kg)	Rated Speed (m/min)	Car Size (mm)		Door Opening (mm)		Front Wall Arrangement (mm)		Hoistway Size (mm)	Machine Room Size (mm)	Machine Room Reaction Force (KN)		Pit Reaction Force (KN)				
		Car Inside (axb)	Car Outside (AxB)	Type	Width OP	L1	L2			X×Y	S×T	R1	R2	R3	R4	R6
450	60	1400×900	1450×1085	2P-CO	700	700	400	2100×1300	2150×1650	48	31	95	82	29	3	
	90									50.5	32	101	88	34	5	
	105									50.5	32	101	88	34	5	
630	60	1400×1100	1450×1285	2P-CO	800	735	415	2150×1550	2150×1750	48	31	95	82	29	3	
	90									50.5	32	101	88	34	5	
	105									50.5	32	101	88	34	5	
825	60	1400×1350	1450×1535	2P-CO	800	705	415	2120×1800	2120×1850	56.5	37	113	95	37	3	
	90							59.5	38.5	120	103	44	5			
	105							67	46.5	140	125	54	7			
	120					75	48	150	145	58	7					
	150					75	48	150	145	58	7					
	60					1400×1300	1450×1485	2P-CO	800	705	415	2120×1800	2120×1850	56.5	37	113
	90	59.5	38.5	120	103							44	5			
	105	67	46.5	140	125							54	7			
	120	75	48	150	145					58	7					
	150	75	48	150	145					58	7					
	60	1300×1400	1350×1585	2P-CO	800					655	385	2040×1850	2040×1850	56.5	37	113
	90					59.5	38.5	120	103			44	5			
105	67					46.5	140	125	54			7				
120	75					48	150	145	58	7						
150	75					48	150	145	58	7						
60	1600×1350					1650×1535	2P-CO	900	755	465	2320×1800	2320×1850	61.5	39	122	103
90		64.5	40.5	131	112						48	5				
105		72	48	155	135						58	7				
120		80	49	165	160				62	7						
150		80	49	165	160				62	7						
60		1600×1500	1650×1685	2P-CO	900				755	465	2320×1950	2320×1950	67.6	40.2	135	113
90	70.4					42.1	145	123			50	5				
105	80					50.5	165	145			60	7				
120	89					55	175	165	65	7						
150	89					55	175	165	65	7						
60	1600×1400					1650×1585	2P-CO	900	755	465	2320×1850	2320×1850	67.6	40.2	135	113
90		70.4	42.1	145	123						50	5				
105		80	50.5	165	145						60	7				
120		89	55	175	165				65	7						
150		89	55	175	165				65	7						
60		1500×1500	1550×1685	2P-CO	900				705	430	2235×1950	2235×1950	67.6	40.2	135	113
90	70.4					42.1	145	123			50	5				
105	80					50.5	165	145			60	7				
120	89					55	175	165	65	7						
150	89					55	175	165	65	7						
60	1400×1600					1450×1785	2P-CO	900	655	430	2185×2050	2185×2050	67.6	40.2	135	113
90		70.4	42.1	145	123						50	5				
105		80	50.5	165	145						60	7				
120		89	55	175	165				65	7						
150		89	55	175	165				65	7						
60		1500×1600	1550×1785	2P-CO	900				705	430	2235×2050	2235×2050	67.6	40.2	135	113
90	70.4					42.1	145	123			50	5				
105	80					50.5	165	145			60	7				
120	89					55	175	165	65	7						
150	89					55	175	165	65	7						
60	1500×1600					1550×1785	2P-CO	900	725	450	2275×2050	2275×2050	67.6	40.2	135	113
90		70.4	42.1	145	123						50	5				
105		80	50.5	165	145						60	7				
120		89	55	175	165				65	7						
150		89	55	175	165				65	7						

- Note:
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 - ② The above information and configuration are based on left side counterweight layout.
 - ③ Configuration is without counterweight safety gear.

Hoistway and Machine Room

The followings shall be furnished by building contractors:

- Building Structure
- Wall and Floor Finishes
- Beam



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 - ③ Unit of dimension shall be in mm unless otherwise stated.
 - ④ The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforced concrete wall. If you have other situations, please contact us.
 - ⑤ For hoistway and machine room details, please contact us.
 - ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hook Capacity (Tons)
1150/1350/1600	60/90/105/120/150	2450	4
825/900/1050/1150/1350/1600	180	2450	4

Hoistway and Machine Room

Rated Load (kg)	Rated Speed (m/min)	Car Size (mm)		Door Opening (mm)		Front Wall Arrangement (mm)		Hoistway Size (mm)	Machine Room Size (mm)	Machine Room Reaction Force (KN)		Pit Reaction Force (KN)			
		Car Inside (axb)	Car Outside (AxB)	Type	Width OP	L1	L2			X×Y	S×T	R1	R2	R3	R4
1150	60	1800×1500	1850×1685	2P-CO	1000	925	550	2700×1950	2700×1950	86	49	162	150	55	5.5
	90									94	51	182	170	62	9
	105									98	55	191	182	71	13
	120									98	55	191	182	71	13
1350	60	2000×1500	2050×1685	2P-CO	1100	1025	625	2950×1950	2950×2100	126	86	201	171	66	11
	90									136	91	233	202	76	15
	105									141	96	243	212	91	16
	120									141	96	243	212	91	16
1600	60	2000×1750	2050×1935	2P-CO	1100	1025	625	2950×2200	2950×2250	131	91	211	181	71	11
	90									141	96	243	212	81	15
	105									145	99	263	222	96	16
	120									145	99	263	222	96	16

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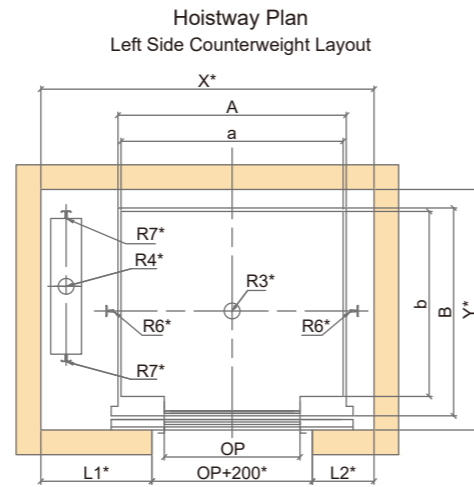
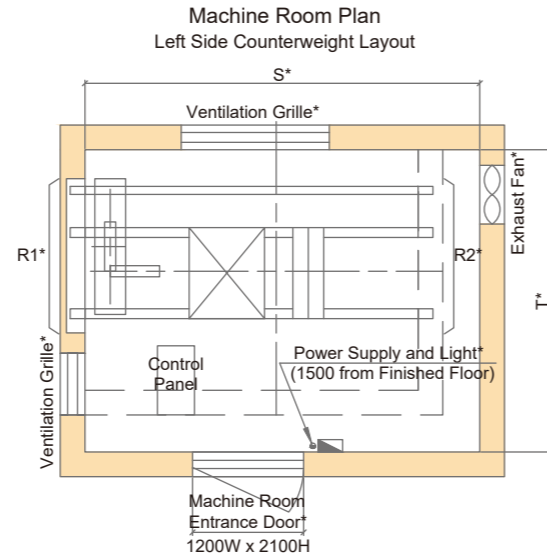
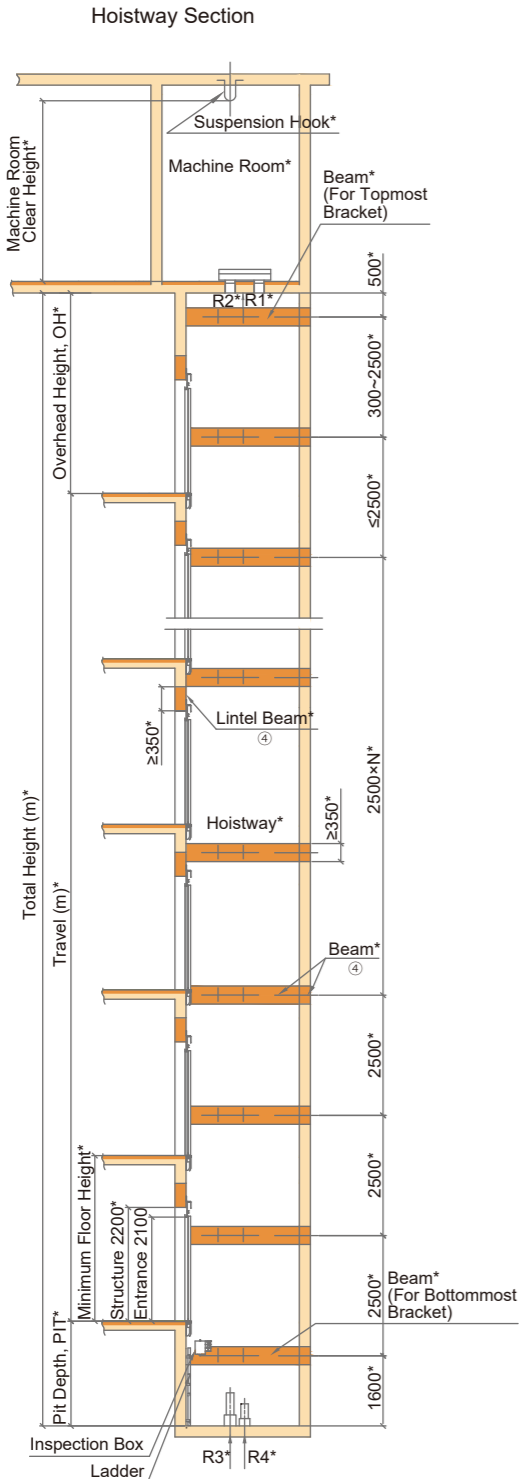
Rated Load (kg)	Rated Speed (m/min)	Car Size (mm)		Door Opening (mm)		Front Wall Arrangement (mm)		Hoistway Size (mm)	Machine Room Size (mm)	Machine Room Reaction Force (KN)		Pit Reaction Force (KN)			
		Car Inside (axb)	Car Outside (AxB)	Type	Width OP	L1	L2			X×Y	S×T	R1	R2	R3	R4
825	180	1400×1350	1450×1535	2P-CO	800	875	425	2300×1850	2300×2050	116	84	209	188	75	13
		1400×1300	1450×1485			850	2275×1900	2275×2050							
		1300×1400	1350×1585			900	925	475	2500×1850						
900	180	1600×1350	1650×1535	2P-CO	900	875	475	2500×1950	2500×2050	127	84	220	190	78	13
		1600×1500	1650×1685					2450×1950	2450×2050						
		1500×1500	1550×1685					2425×2050	2425×2050						
		1400×1600	1450×1785					2450×2050	2450×2050						
		1500×1600	1550×1785					2450×2050	2450×2050						
1150	180	1800×1500	1850×1685	2P-CO	1000	950	550	2700×1950	2700×2100	135	91	228	197	82	18
1350	180	2000×1500	2050×1685	2P-CO	1100	1025	625	2950×1950	2950×2100	141	96	243	212	91	18
1600	180	2000×1750	2050×1935	2P-CO	1100	1025	625	2950×2200	2950×2250	141	99	263	222	96	18

- Note:
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Hoistway and Machine Room

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- Beam



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 - ③ Unit of dimension shall be in mm unless otherwise stated.
 - ④ The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforced concrete wall. If you have other situations, please contact us.
 - ⑤ For hoistway and machine room details, please contact us.
 - ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hook Capacity (Tons)
1800/2000	60/90/105/120/150/180	2500	4

Hoistway and Machine Room

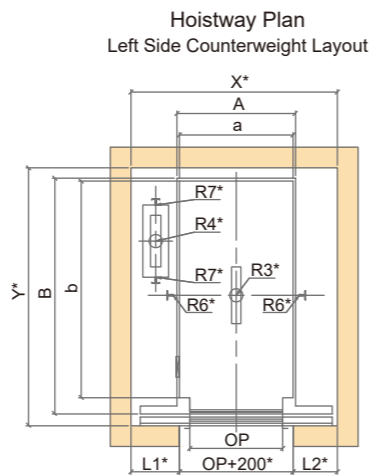
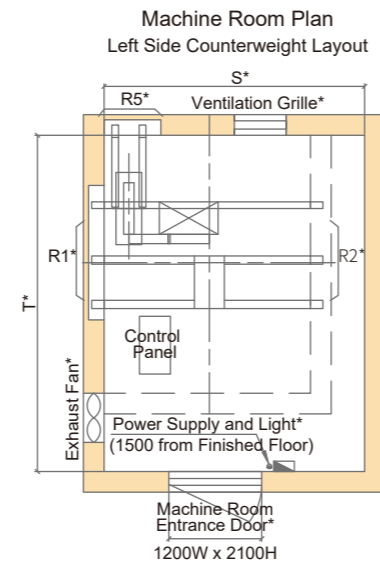
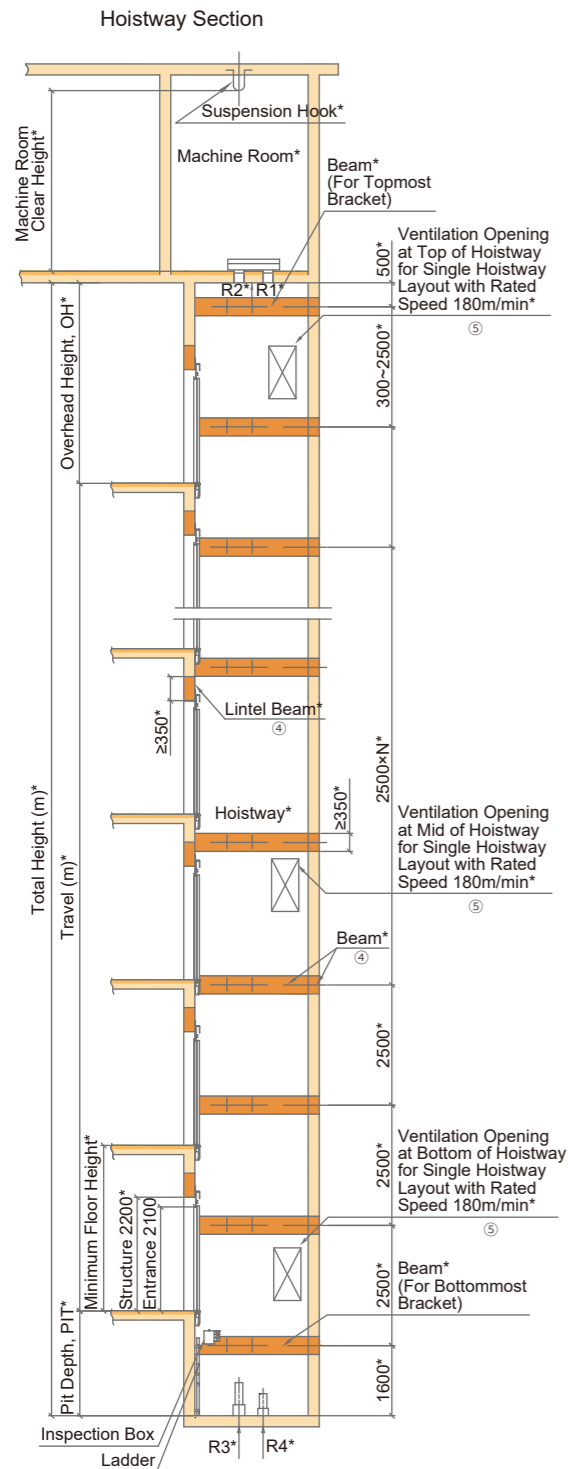
Rated Load (kg)	Rated Speed (m/min)	Car Size (mm)		Door Opening (mm)		Front Wall Arrangement (mm)		Hoistway Size (mm) X×Y	Machine Room Size (mm) S×T	Machine Room Reaction Force (KN)						
		Car Inside (axb)	Car Outside (AxB)	Type	Width OP	L1	L2			R1	R2	R3	R4	R6	R7	
1800	60	2200×1700	2250×1885	2P-CO	1200	1075	675	3150×2150	3150×2450	175	125	245	205	85	20	
	90									185	125	260	220	100	25	
	105									190	130	270	230	110	30	
	120									195	135	280	235	115	30	
	150									195	135	280	235	115	30	
2000	60	2200×1850	2250×2035	2P-CO	1200	1075	675	3150×2300	3150×2550	185	125	260	215	90	20	
	90									190	130	270	225	100	25	
	105									195	135	280	235	115	30	
	120									195	135	280	235	115	30	
	150									195	135	280	235	115	30	

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Hoistway and Machine Room

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 - ② Items with "*" shall be furnished by building contractors.
 - ③ Unit of dimension shall be in mm unless otherwise stated.
 - ④ The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforced concrete wall. If you have other situations, please contact us.
 - ⑤ For hoistway and machine room details, please contact us.
 - ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hook Capacity (Tons)
1050	60/90/105	2100	3
	120/150/180	2450	4

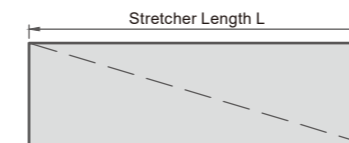
Hoistway and Machine Room

Deep Car

Rated Load (kg)	Rated Speed (m/min)	Car Size (mm)		Door Opening (mm)		Front Wall Arrangement (mm)		Hoistway Size (mm)	Machine Room Size (mm)	Machine Room Reaction Force (KN)			Pit Reaction Force (KN)			
		Car Inside (axb)	Car Outside (AxB)	Type	Width OP	L1	L2			X×Y	S×T	R1	R2	R5	R3	R4
1050	60	1100×2100	1150×2285	2P-CO	900	430	430	1960×2500	1960×2500	67.6	40.2	5.5	135	113	42	3
	90					70.4	42.1			5.5	145	123	50	5		
	105					77	48	6	165	145	60	7				
	120					78	55	7	195	165	65	7				
	150					127	84	9	220	190	78	13				
1050	60	1300×1900	1350×2085	2P-CO	900	520	430	2050×2300	2050×2300	67.6	40.2	5.5	135	113	42	3
	90					70.4	42.1			5.5	145	123	50	5		
	105					77	48	6	165	145	60	7				
	120					78	55	7	195	165	65	7				
	150					127	84	9	220	190	78	13				

- Note:
- ① The above information are based on GB7588-2003 standards.
 - ② The above information and configuration are based on left side counterweight layout.
 - ③ Configuration is without counterweight safety gear.

Maximum Allowable Stretcher Size (Deep Car):

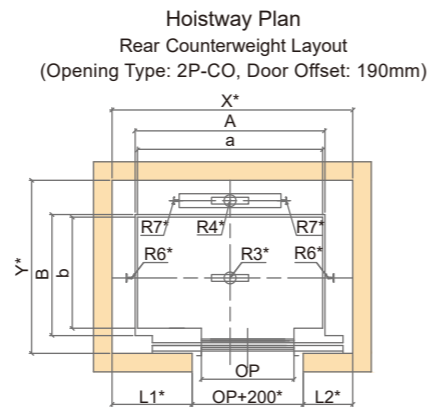
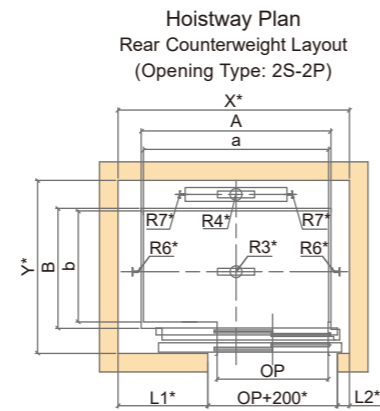
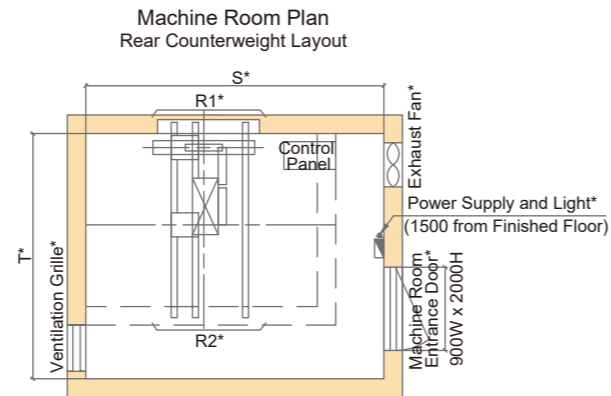
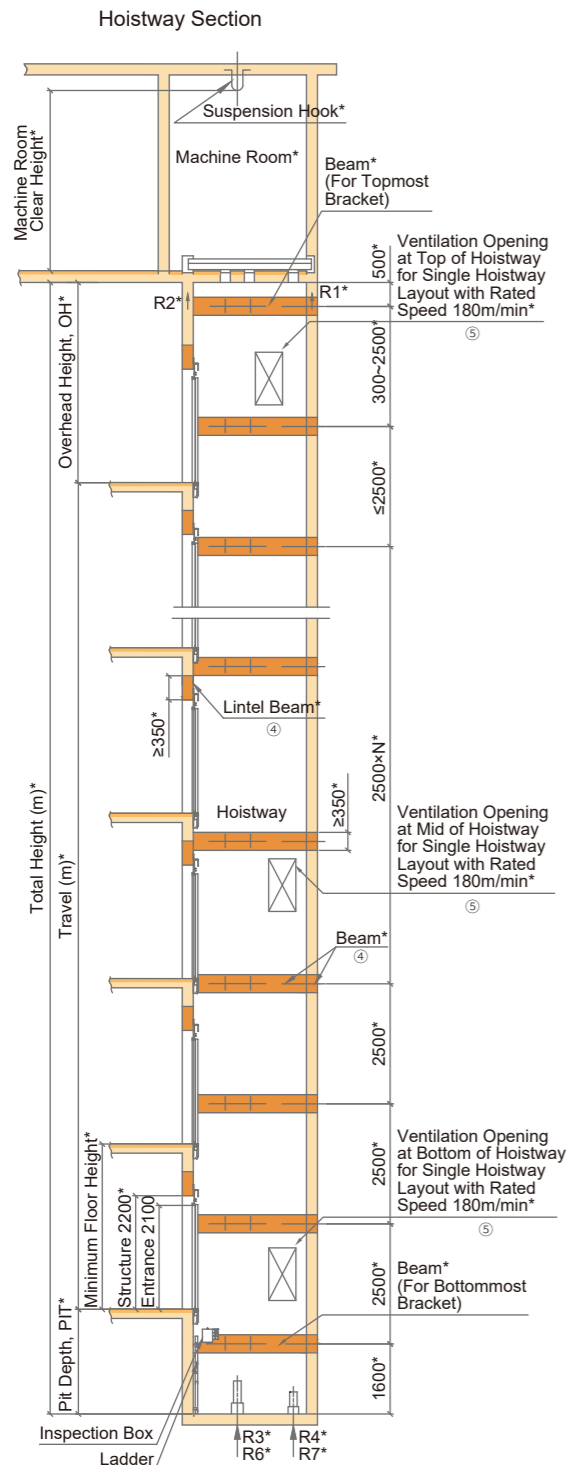


Car Inside Size (axb) (mm)	Maximum Stretcher Length L (mm)	Lift Landing Depth (mm)
1100×2100	2100	≥2100
1300×1900	1900	≥1900

Hoistway and Machine Room

The followings shall be furnished by building contractors:

- Building Structure
- Wall and Floor Finishes
- Beam



- Note:
- ① The above information are based on GB7588-2003 standards.
 - ② Items with "*" shall be furnished by building contractors.
 - ③ Unit of dimension shall be in mm unless otherwise stated.
 - ④ The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforced concrete wall. If you have other situations, please contact us.
 - ⑤ For hoistway and machine room details, please contact us.
 - ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hook Capacity (Tons)
1050	60/90/105	2100	3
	120/150/180	2450	4

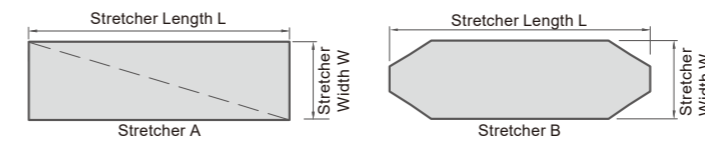
Hoistway and Machine Room

Wide Car

Rated Load (kg)	Rated Speed (m/min)	Car Size (mm)		Door Opening (mm)		Front Wall Arrangement (mm)		Hoistway Size (mm)	Machine Room Size (mm)	Machine Room Reaction Force (KN)		Pit Reaction Force (KN)							
		Car Inside (axb)	Car Outside (AxB)	Type	Width OP	L1	L2			X×Y	S×T	R1	R2	R3	R4	R6	R7		
1050	60	2000×1200	2050×1398	2S-2P	1200	980	120	2500×1825	2500×1850	66	40	135	113	42	3				
	69.5									42	145	123	50	5					
	90					2500×1845	2500×1870	970	130	76	50	165	150	60	7				
	105									89	60	180	175	66	7				
	120									122	89	220	190	78	13				
150	2500×1945	2500×1945	66	40	135	113	42	3											
1050	60	2000×1200	2050×1385	2P-CO (Door Offset)	1000	800	500	2500×1800	2500×1800	66	40	135	113	42	3				
	69.5									42	145	123	50	5					
	90					2500×1900	2500×1900	76	50	165	150	60	7						
	105													89	60	180	175	66	7
	120													122	89	220	190	78	13
150	2500×1900	2500×1900	66	40	135	113	42	3											
180	2500×1900	2500×1900	69.5	42	145	123	50	5											

- Note:
- ① The above information are based on GB7588-2003 standards.
 - ② The above information and configuration are based on rear counterweight layout.
 - ③ Configuration is without counterweight safety gear.

Maximum Allowable Stretcher Size (Wide Car):



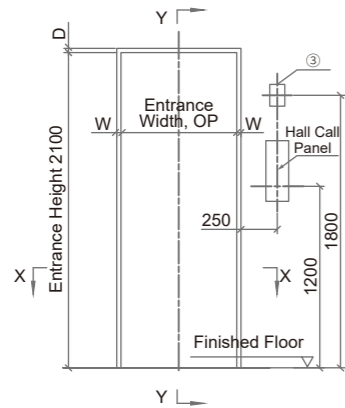
Car Inside Size (axb) (mm)	Opening Width, OP (mm)	Maximum Stretcher Size (L×W) (mm)	Lift Landing Depth (mm)
2000×1200	1200	1900×550 Stretcher A	≥1500
2000×1200	1000	1900×550 Stretcher B	≥1500

Entrance Design

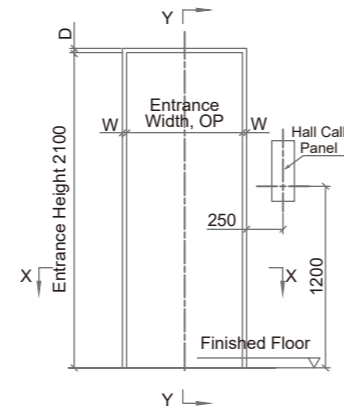
The followings shall be furnished by building contractors:

Wall and Floor Finishes

Elevation of Entrance

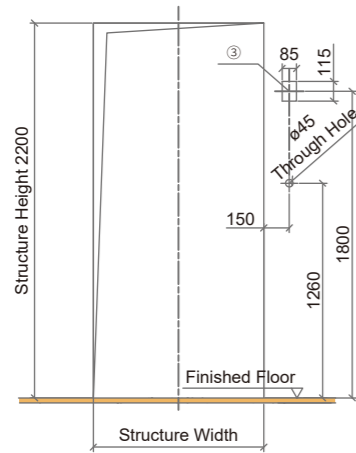


For Entrance With Fireman Switch

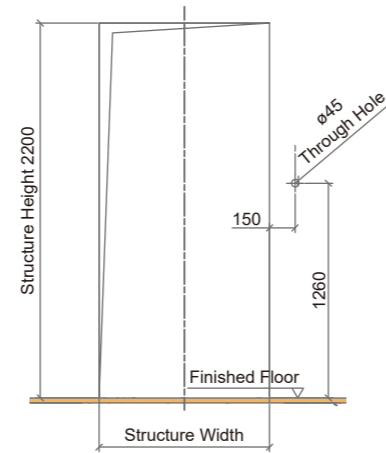


For Entrance Without Fireman Switch

Structure Opening of Entrance



For Entrance With Fireman Switch



For Entrance Without Fireman Switch

Type	AS-1X	SS-1X
W	10	25
D	10	25

- Note:
- The above information are based on GB7588-2003 standards.
 - Unit of dimension shall be in mm unless otherwise stated.
 - Applicable only when fireman operation with switch is located at lift landing.
 - Structure opening of entrance shall be furnished by building contractor.

Entrance Design

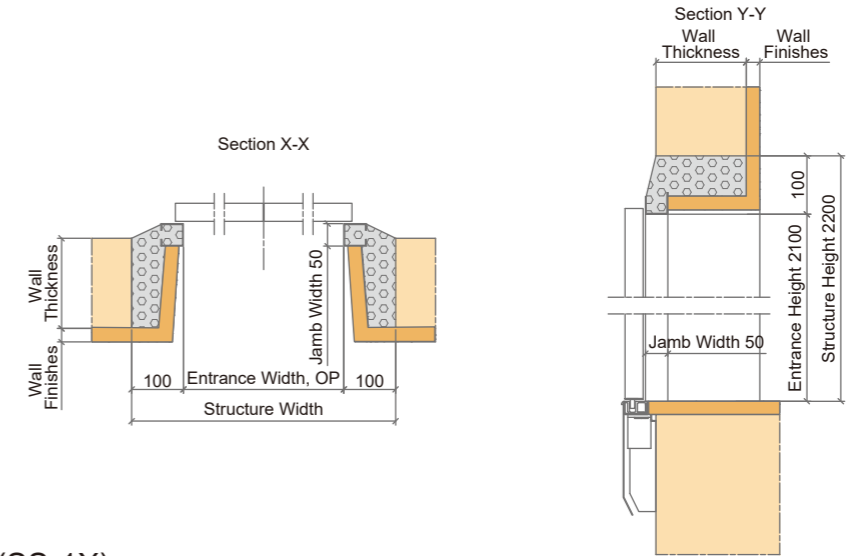
The followings shall be furnished by building contractors:

Building Structure

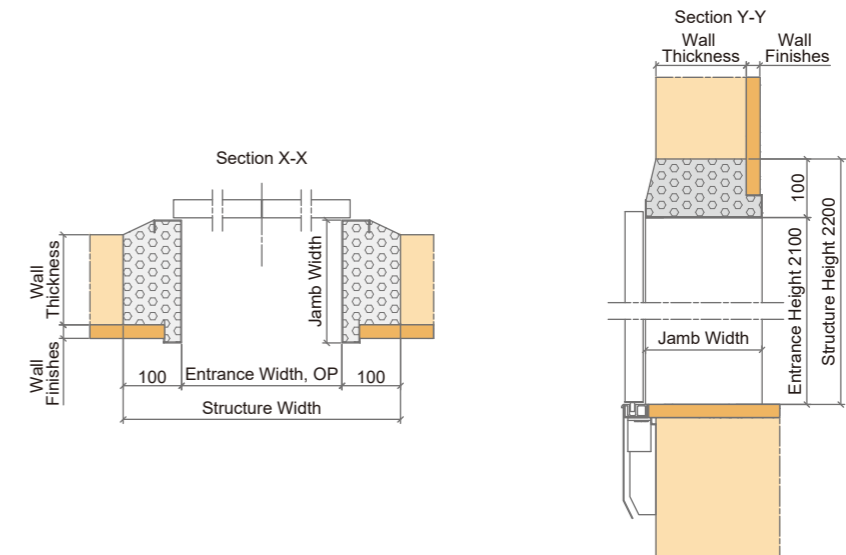
Wall and Floor Finishes

Grouting Work

Narrow Jamb (AS-1X)



Wide Jamb (SS-1X)



- Note:
- Unit of dimension shall be in mm unless otherwise stated.

Electrical Data

No.	Rated Load (kg)	Rated Speed (m/min)	Supply Voltage	Circuit Breaker Capacity (A)		Transformer Capacity (KVA)		Main Power Wire Size (mm ²)		Earth Wire Size (mm ²)	
				1 unit	2 units	1 unit	2 units	1 unit	2 units	1 unit	2 units
1	450	60	3Φ380V 1Φ220V 50Hz	25	40	8	13	6	8	6	8
		90		32	50	9	15	6	10	6	10
		105		32	50	10	16	8	10	8	10
2	630	60		25	40	9	14	6	8	6	8
		90		32	50	10	17	8	10	8	10
		105		40	63	11	19	8	16	8	16
3	825	60		32	50	10	16	6	10	6	10
		90		40	63	12	20	8	16	8	16
		105		40	63	13	22	8	16	8	16
		120		50	80	14	24	10	25	10	16
		150		50	80	16	27	16	30	16	16
		180		63	100	19	32	25	30	16	16
4	900	60		32	50	10	17	6	10	6	10
		90		40	63	12	21	8	16	8	16
		105		40	80	14	23	10	25	10	16
		120		50	80	15	25	10	25	10	16
		150		63	100	17	29	16	30	16	16
		180		63	100	20	34	25	30	16	16
5	1050	60	32	63	11	18	6	10	6	10	
		90	40	80	14	23	8	16	8	16	
		105	50	80	15	25	10	25	10	16	
		120	50	80	17	28	16	25	16	16	
		150	63	100	20	34	25	30	16	16	
		180	80	125	22	38	25	35	16	16	
6	1150	60	40	63	11	19	8	10	8	10	
		90	50	80	14	24	10	25	10	16	
		105	50	80	16	27	10	25	10	16	
		120	63	100	18	30	16	25	16	16	
		150	63	100	21	35	25	30	16	16	
		180	80	125	23	38	25	35	16	16	
7	1350	60	40	63	12	20	8	16	8	16	
		90	50	80	16	27	10	25	10	16	
		105	63	100	18	30	16	25	16	16	
		120	63	100	20	33	16	30	16	16	
		150	80	125	23	39	25	30	16	16	
		180	80	125	26	43	25	35	16	16	

Electrical Data

No.	Rated Load (kg)	Rated Speed (m/min)	Supply Voltage	Circuit Breaker Capacity (A)		Transformer Capacity (KVA)		Main Power Wire Size (mm ²)		Earth Wire Size (mm ²)	
				1 unit	2 units	1 unit	2 units	1 unit	2 units	1 unit	2 units
8	1600	60	3Φ380V 1Φ220V 50Hz	40	80	14	23	8	16	8	16
		90		63	100	18	30	16	25	16	16
		105		63	100	20	34	16	30	16	16
		120		80	125	22	38	16	30	16	16
		150		80	160	27	45	25	35	16	16
		180		80	160	30	50	25	50	16	25
9	1800	60		80	80	15	24	16	25	16	16
		90		80	100	19	32	25	35	16	16
		105		80	125	22	36	30	50	16	25
		120		80	125	24	40	30	50	16	25
		150		125	160	29	49	35	80	16	40
		60		80	80	16	26	16	30	16	16
10	2000	90		80	100	21	35	25	35	16	16
		105		80	125	23	40	30	50	16	25
		120		80	160	26	44	30	50	16	25
		150		125	160	31	53	35	80	16	40
		60		80	80	16	26	16	30	16	16
		90		80	100	21	35	25	35	16	16

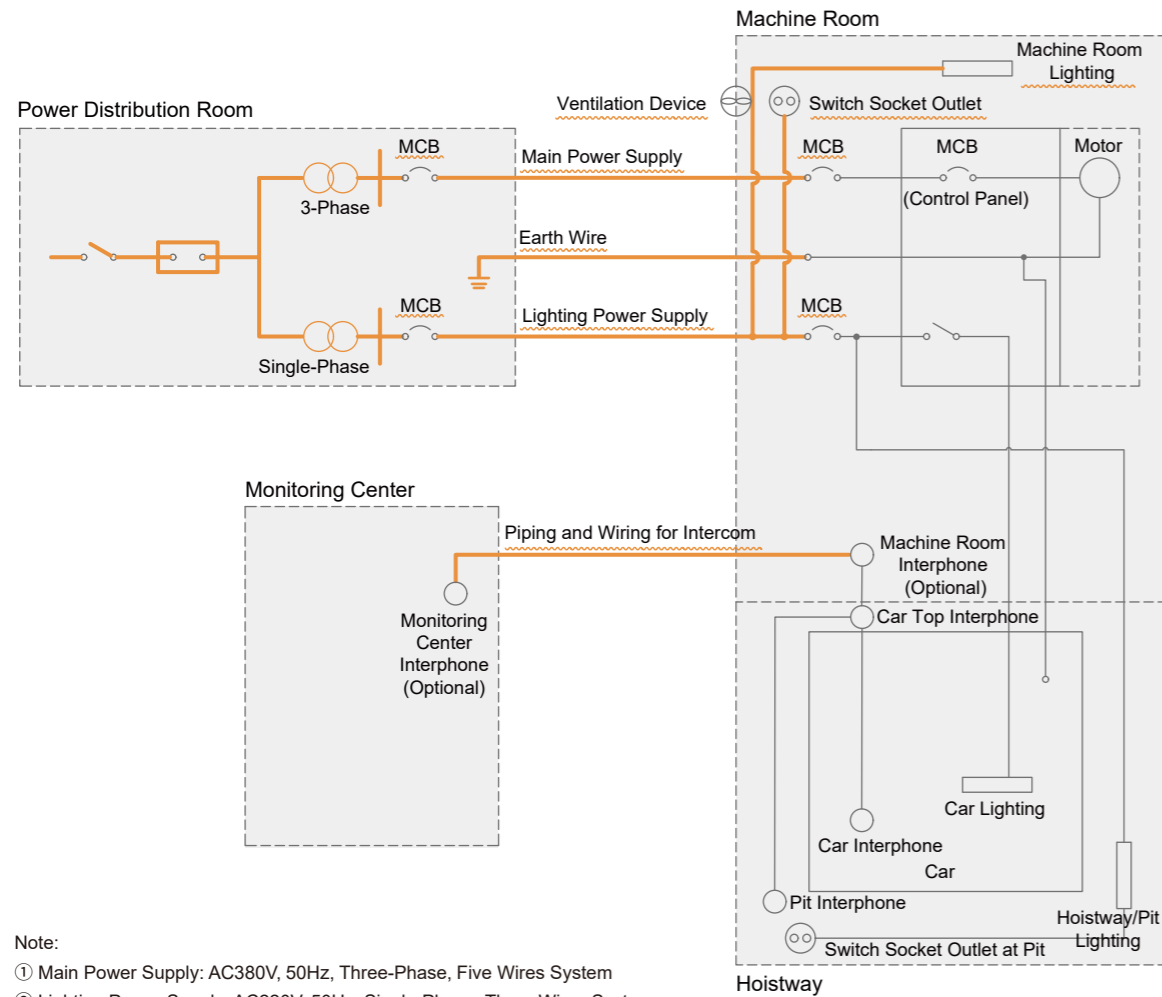
Note:

- ① The above information are based on GB7588-2003 standards.
- ② The above information on the Supply Voltage, Circuit Breaker Capacity(A), Transformer Capacity(KVA), Main Power Wire Size (mm²) and Earth Wire Size (mm²) are the requirements at building side.
- ③ The main power wire size specified above is applicable for wire length less than 150m. For main power wire length more than 150m, please calculate using the following formula:
Main power wire size (mm²) = [Actual wire length/150] x [Wire size in above table].
- ④ The calorific value (kcal/hr) for one elevator is calculated using the following formula:
Calorific Value (kcal/hr) = Rated Load (kg) x Rated Speed (m/min) x [1/45].

The following shall be furnished by building contractors:

----- Electrical Equipment

— Cable



Note:

- ① Main Power Supply: AC380V, 50Hz, Three-Phase, Five Wires System
- ② Lighting Power Supply: AC220V, 50Hz, Single-Phase, Three Wires System

Item	Works to be provided by building contractor
Main Power Supply	To provide power supply switch around the entrance of machine room. To install facilities to ensure the power supply voltage fluctuation shall be within $\pm 7\%$.
Lighting Power Supply	To provide lighting power supply for car lighting, fan and indicator.
Ventilation Device	To provide mechanical ventilation to the machine room to ensure that the temperature in the machine room is maintained at below 40°C.
Machine Room Lighting and Switch Socket Outlet	To provide single phase AC220V, 10A switch socket outlet and machine room lighting with switch around the entrance of machine room for maintenance purposes.

Working environment of the elevator shall be as follow:

1. Machine room ambient temperature shall be between 5°C to 40°C.
2. Maximum relative humidity is 90%, and the monthly mean minimum temperature should be below 25°C.
3. Supply voltage fluctuation shall be within $\pm 7\%$.
4. Surrounding environment shall be free from explosive and corrosive hazard, anti-insulation and conductive particles atmosphere.

About hoistway and machine room:

1. Hoistway and machine room shall not be used for purposes other than those connected with the elevators.
2. Hoistway walls (including reinforced concrete ring beams) should be vertical, and the allowable deviation for the hoistway verticality is 0~+30mm.
3. Hoistway and machine room walls, floors and roofs should be able to absorb a large amount of elevator operation noise.
4. Hoistway and machine room should not be located directly adjacent to bedrooms, classrooms, wards, library or any other places where low noise is required. Where such arrangements need to be imposed, the building contractors must be responsible for taking measures of sound insulation and cushioning.
5. Hoistway walls shall be 200mm concrete walls.
6. If elevator hoistway is steel structure construction, please contact us.
7. Elevator hoistway is preferably not located in the space above accessible area. If the actual situation cannot meet the regulations, please contact us.

Work to be done by Building Contractors:

The preparatory work for elevator installation outlined below should be undertaken by building contractors in accordance with Hitachi drawing and applicable national or local codes and regulation.

1. Prepare hoistway with proper framing and enclosure, suitable pit of proper depth with drains and waterproofing if required, properly lighted and ventilated machine room of adequate size with concrete floor, access door, ladder and guards as required.
2. Provide and/or cut all necessary holes, chases, and openings and finish after equipment installation.
3. Supply and secure all supports, reinforced concrete slabs, etc., necessary for installation of the machinery, doors, buffers, etc.
4. Furnish all necessary cement and/or concrete for grouting-in of brackets, bolts, machine beams etc.
5. Suspension hook in the machine room with required loading as shown in this catalogue.
6. Furnish main for three-phase electric power and single-phase lighting supply to machine room, following the instructions of the elevator contractors on outlet position and wire size.
7. Supply electric power for lighting of work area, installation work, elevator testing and spray painting.
8. Provide, free of charge, a suitable theft-proof storage area for materials and tools during erection work.
9. Prepare and erect suitable scaffolding and protective measures for the works in progress.

