

LCA

Machine Room-less Elevator Planning Guide

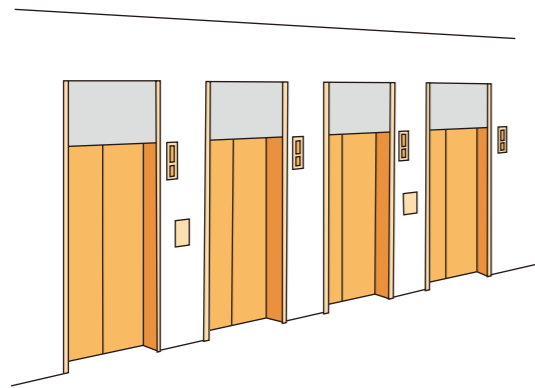
The information in this catalogue is subject to change without notice. The information and diagram in this catalogue reflect the technical feature and configuration of the elevator model at press time (refer to the version number). In line with the principle of continuous development of products, our 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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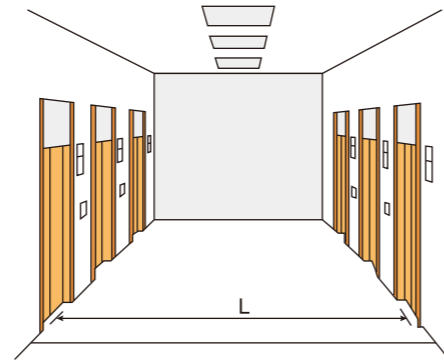
Rated Load (kg)	No. of Passengers ①	Rated Speed (m/min)	Maximum Number of Stops	Maximum Travel (m)	Maximum Travel with Fireman Operation (m)	Minimum Floor Height (mm)
400	5	60	12	30	—	2800
450	6	60	12	30		
630	8	60/90/105	60m/min:22 90m/min:36 105m/min:36 120m/min:40 150m/min:40	60m/min:60 90m/min:90 105m/min:90 120m/min:120 150m/min:120	60m/min:58 90m/min:86 105m/min:90 120m/min:115 150m/min:120	
825	11	60/90/105/ 120/150				
900	12					
1000	13					
1050 (Deep Car)	14	60/90/105				
1150	15	60/90/105/ 120/150				
1350	18					
1600	21					
1800	24	60/90/105				
2000	26					

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

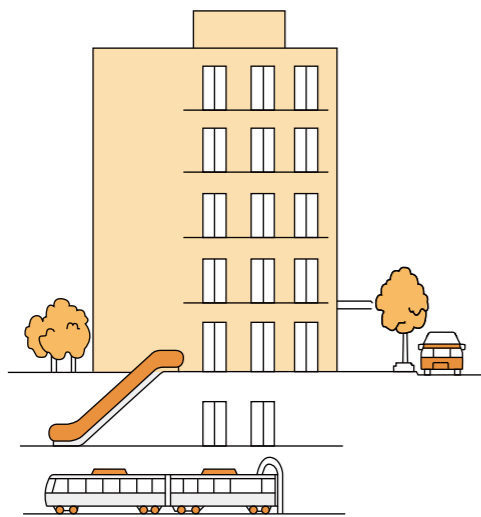


- Maximum in-line arrangement is 4 elevators.
- Elevators in different groups should not be set in the same line.
- Avoid placing the elevators entrance near pillars.

- More than 5 units in the same group, the elevators should be set face-to-face. And the distance of facing elevators (L) should be 3.5~4.5m.
- Different group elevators with face-to-face arrangement, the distance of facing elevators (L) should be more than 6m.



- Elevators in same group should have same stops.
- Elevators in same group should be set the same floor as basement and not recommend to set several entrance.



<FI-600 / FI-700 Features> Future Reference-Trajectory Control

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.

(FI-600 / FI-700)	(FI-100)	(FI-10)
(3-8 Cars)	(3-6 Cars)	(3-4 Cars)
Allows a flexible control for elevator car allocation and the required number of cars according to the congestion state in the building and the type of building.	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 floor where a new hall call is registered.

Basic Specification	Instantaneous reservation and service forecasting		
	Intelligent function		
	<ul style="list-style-type: none"> • Generation of new traffic flow modes • Generation of optimum operation programs 		
	Congested floor recognition		
	Learning function		
	<ul style="list-style-type: none"> • Collection of usage data • Recognition of traffic flow mode (40/2 modes) • Search for optimum operation program 		
	Arrival notice indication (hall lantern and chimes)		
Bunching prevention ①			
	Future reference-trajectory 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
Recommended number of cars in a group	3~8 cars ②	3~6 cars	3~4 cars
Type of building	Large office buildings and hotels	Small office building, department stores, hotels and hospitals	Building with small traffic demand
Optional	VIP service, independent automatic operation		
	Service floor selection		
	Destination floor reservation system Centralized 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. ▲ : Option spec. — : Not applicable

No.	Item	Content	FI-600/ FI-700	FI-100	FI-10
1	Instantaneous reservation and service forecasting (FI-HRF)	Upon receipt of a hall call, this function activates and 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.	●	●	▲
3	Basic call assignment control	Future reference-trajectory control (FI-FRTC)	●	—	—
		Reference-trajectory control (FI-RTC)	—	●	—
4	Personalized control	Through the hall call assignment control of waiting time priority assignment, constantly carry out operation 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.	▲	▲	—
	Bunching prevention (FI-BP)	This function prevents local bunching of elevator cars using the "future reference-trajectory control" or the "reference-trajectory control" for operating cars at equal time intervals.	●	●	—
5	Learning function	Collection of usage data (FI-CUD)	●	●	—
		Recognition of traffic flow mode (FI-RTM)	●	●	—
		Search for optimum operation program (FI-SOP)	●	●	—
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	Intelligent function	Generation of new traffic flow modes (FI-GNT)	●	—	—
		Generation of optimum operation programs (FI-GOP)	●	—	—
9	Energy saving preference control (FI-ESC)	This system reduces the number of elevator cars in service when traffic demand is low.	●	—	—
10	Floor standby control	Forecasting dynamic allocation control (FI-FDA)	●	—	—
		Zone distribution control (FI-ZD)	—	●	—
		Fixed floor distribution (FI-FD)	▲ (FI-700 only)	—	●

Basic Function

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

No.	Item	Content	FI-600/ FI-700	FI-100	FI-10
11	Learning based concentrated service (FL-LCS)	Centralizes 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.	●	—	—
12	Rush-hour schedule operation	All the elevators will automatically return to the start floor after serving the last call during this preset rush-hour timing.	●	—	▲
13	Destination floor priority control	The allocation will be priority when the destination floor and the hall call is the same floor.	●	●	—
14	Full car forecasting control	Control the new allocation according to the number of passengers in car and the times of new calls.	●	●	—
15	Full car control	Stop new allocation or re-allocate the car when full load.	●	●	—
16	Long waiting time allocation control	Re-allocate the cars when long waiting time situation is forecasted.	●	●	—
17	Notice function	Keep the service elevator car door open with hall lantern flickering to guide the passengers.	▲	●	—
18	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.	●	●	—

Operating Function

No.	Item	Content	FI-600/ FI-700	FI-100	FI-10
1	Centralized 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) [Floor lock-out operation]	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 guest, this function permits an elevator to be summoned directly to the desired car call floor by pushing a specially provided switch.	▲	▲	▲
4	Zoning express service (FI-EZS)	Start a divided express service when the peak traffic demand takes place in the present time zones.	▲	—	—

Man-machine Function

No.	Item	Content	FI-600/ FI-700	FI-100	FI-10
1	Malicious operation cancelled function	Cancel the allocation when system identifies the call is malicious.	●	●	—
2	Hall information (FI-HI)	General and elevator operation information is indicated on the LED or LCD hall indicator.	—	—	●

Elevator Function

Standard Functions

Control Type			
SA1	Selective Collective Control	SA2	Floor Height Self Measurement
SA3	On-Cage (Car Top) Maintenance Operation	SA4	In-Cage Slow Speed Operation
SA5	Emergency Electric Operation		
System Protection			
SB1	Overspeed Electrical Protection	SB2	Overspeed Mechanical Protection
SB3	Unintended Car Movement Protection, UCMP Function (SIL3)	SB4	Ascending Car Overspeed Protection, ACOP Function (SIL3)
SB5	Rope Slipping Running Protection	SB6	Automatic Fault Recording
SB7	Motor Overload (Thermal) Protection	SB8	Standby Regular Auto-Check
SB9	Automatic Fault Detection	SB10	Synchronous Motor Magnetic Pole Test
SB11	Double Brake-Safety Check Operation	SB12	Nearest Landing Operation
SB13	Lift-Position Abnormity Auto-Correction Function	SB14	Motor Energy Saving Control
SB15	Anti-Electromagnetic Interference	SB16	Self Diagnosis Inverter
SB17	Intelligent Auxiliary Brake Function		
Safe Communication			
SC1	Car Intercom Communication	SC2	Pit Intercom Communication
SC3	Car Top Intercom Communication		
Safe Riding			
SD1	Out of Door-Open Zone Alarm	SD2	Alarm System
SD3	Door Safety Return System	SD4	Full Load Bypass Operation
SD5	Overload Detection System	SD6	Overload Alarm
SD7	Next Drive (Door Open Abnormity)	SD8	Door Opening/Closing Time Abnormity Protection
SD9	Automatic Door Dwell Time Control	SD10	Automatic Door Dwell Time Adjustment
SD11	Number of Runs Indicator	SD12	Intelligent Multi-Beam Protection
SD13	Maintenance Indication at Hall Indicator	SD14	Current Floor Push-Button Reopening Function
SD15	Overload Indicator (In Car)		
Emergency Solution			
SE1	Car Emergency Lighting	SE2	Fire Emergency Operation (Automatic)
Design for Comfort			
SF1	Parking Operation	SF2	Automatic Return Function
SF3	Start Torque Auto-Adjustment	SF4	Door-Stop Function (Maintenance)
SF5	Micro Levelling [Travel ≥ 30m]	SF6	Opposite Direction Car Call Cancellation
SF7	Mischievous Call Cancellation	SF8	Car Fan Auto Turn-off
SF9	Car Light Auto Turn-off	SF10	Car Floor Button Flashing
SF11	Abnormal Duration Hall Call Detection [Applicable for Simplex, Duplex and FI-10 only.]	SF12	Step-less Speed Control
SF13	Car Call Deselect Function	SF14	Door Bypass Detection
SF15	Overloading Hall Call Recovery Function [Applicable for Simplex, Duplex and FI-10 only.]	SF16	Quick Door Closing Function (In Car)
SF17	Manual Micro Levelling		

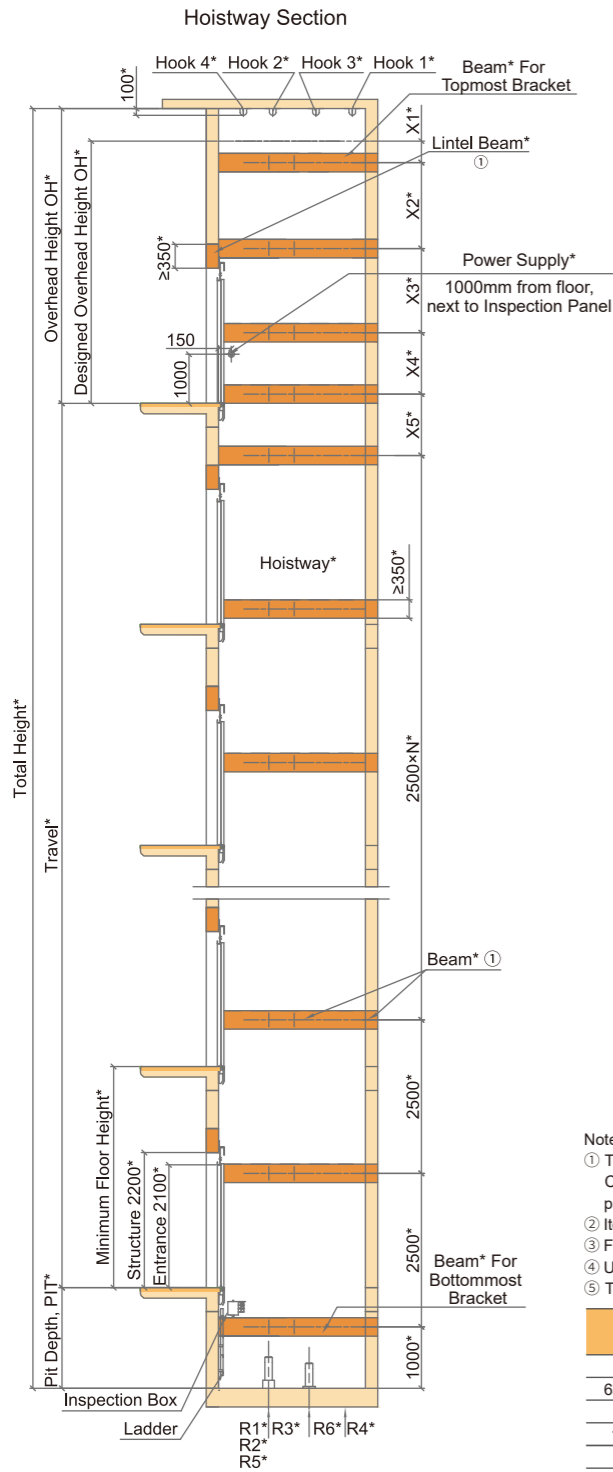
Note:
① For details, please contact us.

Elevator Function

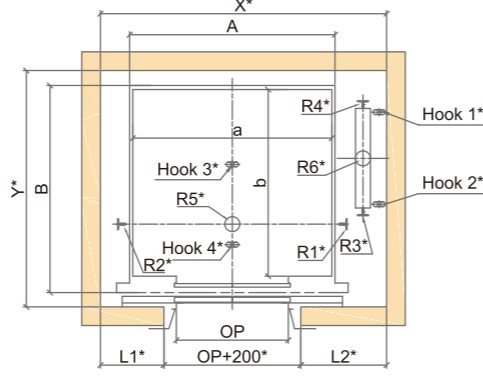
Optional Functions

Control Type			
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 (For Duplex & Group Control) ①	OA8	VIP Service (For Duplex & Group Control)
OA9	Rush Hour Schedule Operation [Applicable for FI-10, FI-600 and FI-700.]		
Safe Communication			
OB1	Interphone System (5 Ways) [5 Ways: Monitoring Center, Inspection Panel, In Car, Car Top & Pit]	OB1	Contact at Control Panel (RS485)
OB3	Elevator Monitoring System (Computer Type)	OB4	Supervisory Panel (Dry Contact Type) [Not applicable with OB7.]
OB5	Twisted Pair Cable (1 Pair) for CCTV Interface	OB6	Twisted Pair Cable (1 Pair) for BGM Interface
OB7	Contact at Control Panel (Dry Contacts) [Not applicable with OB4.]		
Safe Riding			
OC1	IC Card Security System (In Car) ① [Not applicable with OC2 or OE3.]	OC2	IC Card Security System (Hall) ① [Not applicable with OC1 or OE3.]
OC3	Multi-Beam + Safety Edge Protection		
Emergency Solution			
OD1	Fireman Operation [Rated Load ≥ 825kg]	OD2	Automatic Rescue Device (ARD) ① [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
OD7	Mechanical Manual Brake Release Device ①		
Design for Comfort			
OE1	Attendant Operation	OE2	Independent Operation
OE3	Floor Lockout Operation [Not applicable with OC1 or OC2.]	OE4	Arrival Chime (Car Top & Bottom)
OE5	Voice Synthesizer [Not applicable with OE20.]	OE6	Door Opening Prolong Button
OE7	Electromagnetic Compatibility (EMC) Function	OE8	Sub Car Operating Panel
OE9	Braille Button	OE10	Horizontal Car Operating Panel
OE11	Micro Levelling [Travel < 30m]	OE12	Advance Door Opening
OE13	Operation Status Indication at Hall Indicator	OE14	Hall Call Deselect Function [Applicable for Simplex, Duplex and FI-10 only.]
OE15	Ultraviolet, UV sterilization function ①	OE16	Regenerative System Function
OE17	Nighttime Protective Operation ①	OE18	Hall Lantern with Arrival Chime ①
OE19	Double Opening Function [Applicable for Simplex, Duplex and FI-10 only.]	OE20	Intelligent Broadcast System ①

Note:
① For details, please contact us.



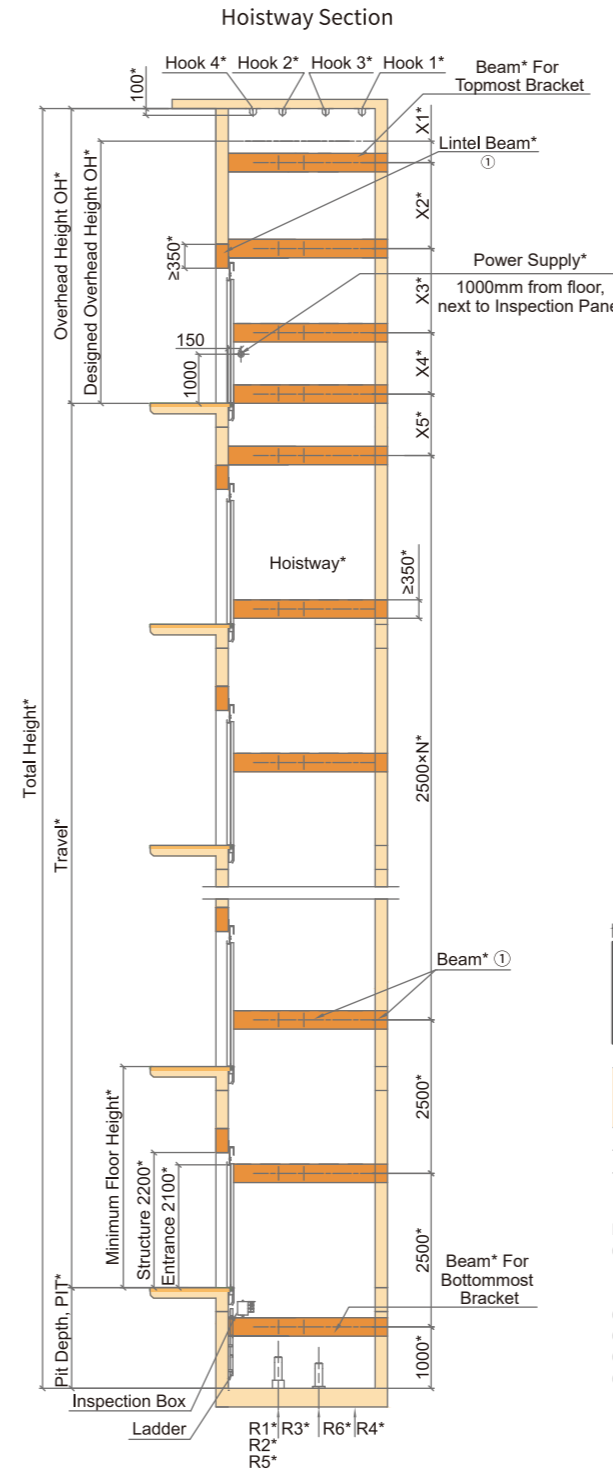
Hoistway Plan
(Counterweight Location: Right)



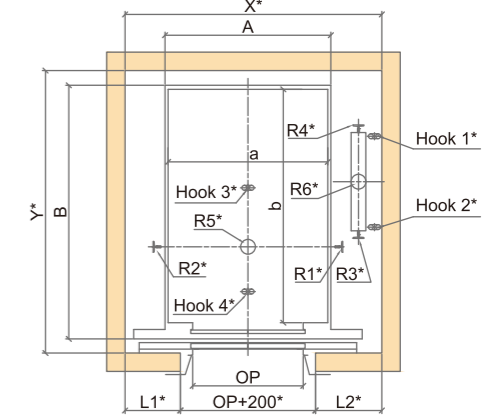
Note:

- ① 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.
- ② Items with "*" shall be furnished by building contractors.
- ③ For hoistway details, please contact us.
- ④ Unit of dimension shall be in mm unless otherwise stated.
- ⑤ The suspension hooks capacity shall be as follows:

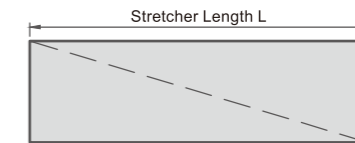
Rated Load (kg)	Rated Speed (m/min)	Hook 1 (Tons)	Hook 2 (Tons)	Hook 3 (Tons)	Hook 4 (Tons)
400/450	60	2	2	3	3
630/825/900/1000	60/90/105	2	2	3	3
825/900/1000	120/150	2	2	4	4
1150/1350/1600	60/90/105/120/150	2	2	4	4
1800/2000	60/90/105	2	2	4	4



Hoistway Plan
(Counterweight Location: Right)



Maximum Allowable Stretcher Size (Deep Car)



Car Internal Size (a×b) (mm)	Maximum Stretcher Length L (mm)	Lift Landing Depth (mm)
1100×2100	2100	≥2100
1300×1900	1900	≥1900

Note:

- ① 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.
- ② Items with "*" shall be furnished by building contractors.
- ③ For hoistway details, please contact us.
- ④ Unit of dimension shall be in mm unless otherwise stated.
- ⑤ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Hook 1 (Tons)	Hook 2 (Tons)	Hook 3 (Tons)	Hook 4 (Tons)
1050	60/90/105	2	2	3	3

Rated Load (kg)	Rated Speed (m/min)	Car Size (mm)		Door Opening (mm)		Front Wall Arrangement (mm)		Hoistway Dimension (mm)	Reaction Loading (KN)					
		Internal a×b	External A×B	Type	Width	L1	L2		X×Y	R1	R2	R3	R4	R5
400	60	1000×1100	1050×1260	2P-CO (Door Offset)	700	365	385	1650×1500	40	30	30	25	100	90
450	60	1000×1300	1050×1460	2P-CO (Door Offset)	700	385	415	1700×1700	40	30	30	25	100	90
630	60	1100×1400	1150×1560	2P-CO (Door Offset)	800	385	415	1800×1800	65	50	50	45	110	100
	395					405	1800×1850							
825	60/90/105	1350×1400	1400×1560	2P-CO	800	420	580	2000×1850	70	55	55	45	120	105
		1250×1500	1300×1660			420	530	1950×1900						
		1300×1500	1350×1660			395	555	1950×1900						
		1200×1600	1250×1760			395	505	1900×2000						
900	60/90/105	1500×1400	1550×1560	2P-CO	900	445	605	2150×1850	75	60	55	50	130	110
	120/150	1500×1400	1550×1560			525	725	2350×2000						
1000	60/90/105	1600×1400	1650×1560	2P-CO	900	495	655	2250×1850	80	65	60	50	135	115
		1600×1500	1650×1660			495	655	2250×1900						
		1500×1500	1550×1660			445	605	2150×1900						
		1400×1600	1450×1760			445	555	2100×2000						
	1500×1600	1550×1760	445			605	2150×2000							
	120/150	1600×1400	1650×1560			575	775	2450×2000						
1050 (Deep Car)	60/90/105	1100×2100	1150×2260	2P-CO	900	410	410	1920×2500	80	65	60	50	135	115
		1300×1900	1350×2060			440	510	2050×2300						
		1100×2100	1150×2298	2S-2P		145	505	1750×2550						
		1300×1900	1350×2098			145	705	1950×2350						
1150	60/90/105	1800×1500	1850×1660	2P-CO	1000	605	745	2550×2000	95	75	70	60	155	130
	120/150					615	885	2700×2050						
1350	60/90/105	2000×1500	2050×1660	2P-CO	1100	655	795	2750×2000	100	80	70	65	170	150
	120/150					665	935	2900×2050						
1600	60/90/105	2000×1700	2050×1860	2P-CO	1100	655	795	2750×2100	105	85	75	65	170	150
	120/150					665	935	2900×2150						
1800	60/90/105	2000×1850	2050×2015	2P-CO	1100	630	870	2800×2250	110	90	80	75	195	160
2000	60/90/105	2000×2000	2050×2165	2P-CO	1100	630	870	2800×2400	120	100	90	80	215	175

Note:

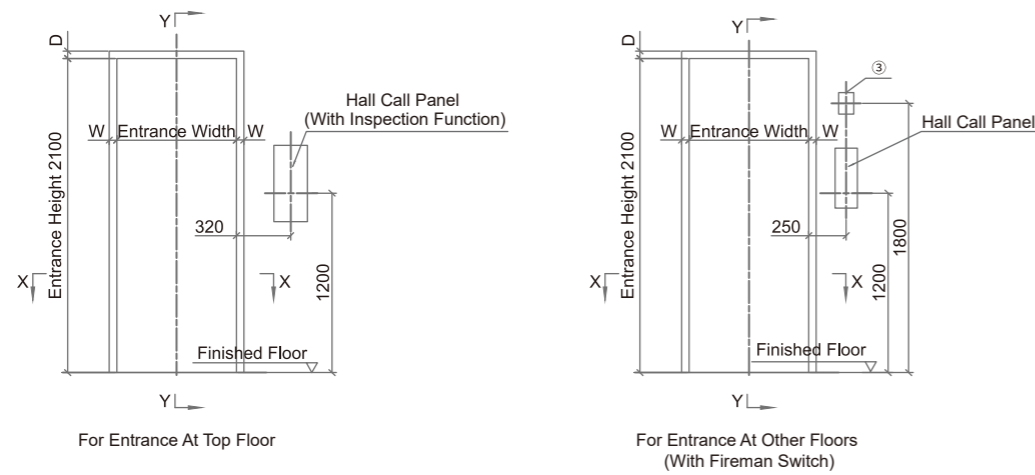
- ① The above information are based on GB7588-2003 standards.
- ② The above information and dimensions are based on right side counterweight.
- ③ Configuration is without counterweight safety gear.
- ④ For rated load 400 ~ 630kg, it is based on 50mm door offset configuration.

Rated Load (kg)	Rated Speed (m/min)	Overhead Height, OH (mm)	Pit Depth, PIT (mm)
400	60	3750	1350
450	60	3750	1350
630	60	3750	1350
	90	3900	1400
630	105	3950	1450
	120	4200	1900
825	150	4500	2100
	60	3750	1350
	90	3900	1400
	105	3950	1450
900	120	4200	2000
	150	4500	2100
	60	3750	1350
	90	3900	1400
900	105	3950	1450
	120	4200	2000
	150	4500	2100
	60	3750	1350
1000	90	3900	1650
	105	3950	1650
	120	4200	2100
	150	4500	2150
1050 (Deep Car)	60	3750	1600
	90	3900	1650
	105	3950	1650
	120	4200	2100
1150	150	4500	2400
	60	3750	1600
	90	3900	1700
	105	3950	1700
1350	120	4200	2200
	150	4500	2400
	60	3750	1600
	90	3900	1700
1600	105	3950	1800
	120	4200	2350
	150	4500	2450
	60	3750	1550
1800	90	3900	1850
	105	3950	1850
	120	4200	2300
2000	150	4500	2400
	60	3750	1700
	90	3900	1800

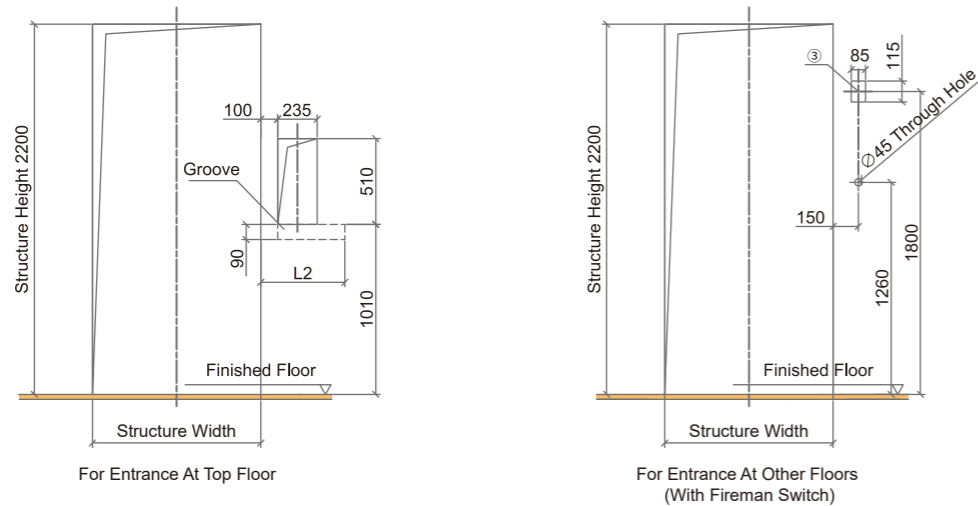
Note:

- ① The above information are based on GB7588-2003 standards.
- ② The overhead height, OH is based on bare ceiling height of 2350mm.
- ③ The pit depth, PIT is based on vinyl tile finish without floor recess.
- ④ Configuration is without counterweight safety gear.
- ⑤ Configuration is based on the following decoration weight provision:
 For rated load 400 / 450kg, decoration weight provision shall be up to 200kg.
 For rated load 630 ~ 1050kg, decoration weight provision shall be up to 300kg.
 For rated load 1150 ~ 2000kg, decoration weight provision shall be up to 500kg.

Elevation of Entrance



Structure Opening of Entrance



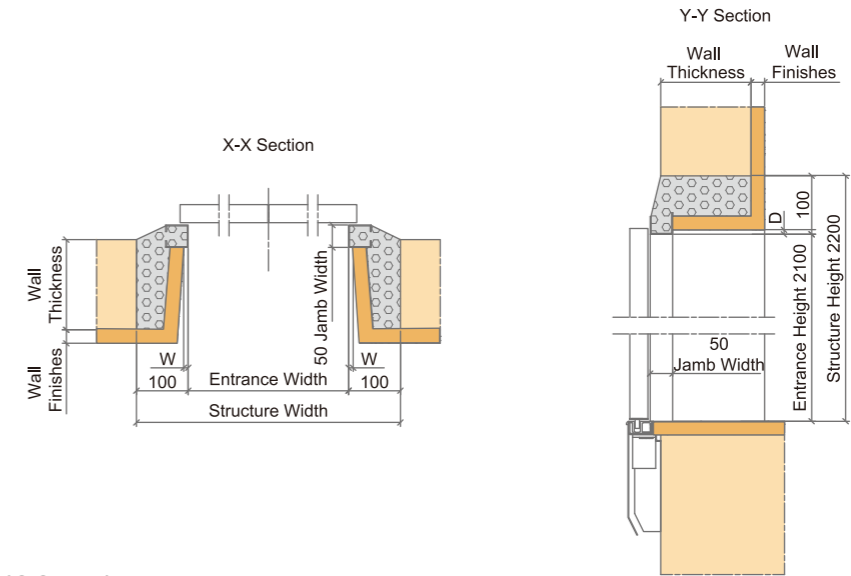
Type	AS-1X	SS-1X
W	10	25
D	10	25

- Note:
- ① Structural opening of entrance shall be furnished by building contractor.
 - ② Unit of dimension shall be in mm unless otherwise stated.
 - ③ Applicable only when fireman operation with switch is located at lift landing.

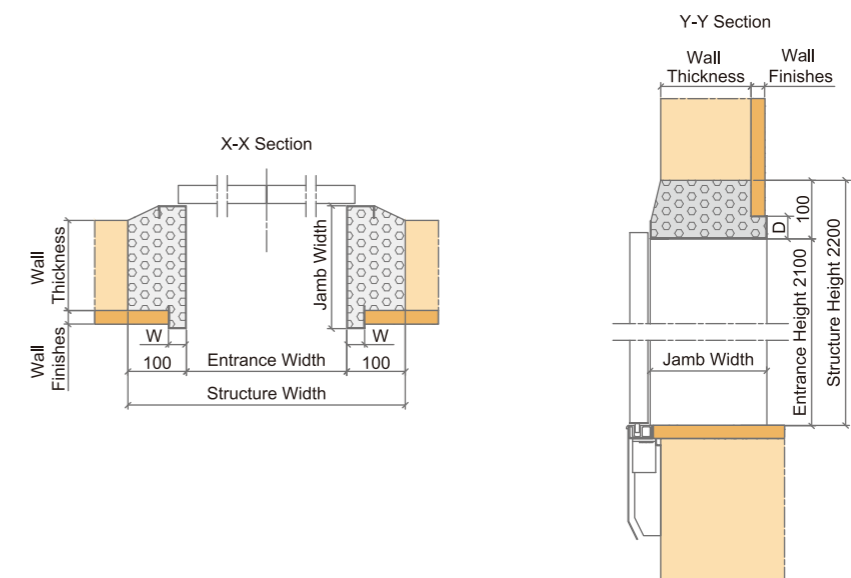
The followings shall be furnished by building contractors:

- Building Structure
- Wall and Floor Finishes
- Grouting Work

Narrow Jamb (AS-1X)



Wide Jamb (SS-1X)

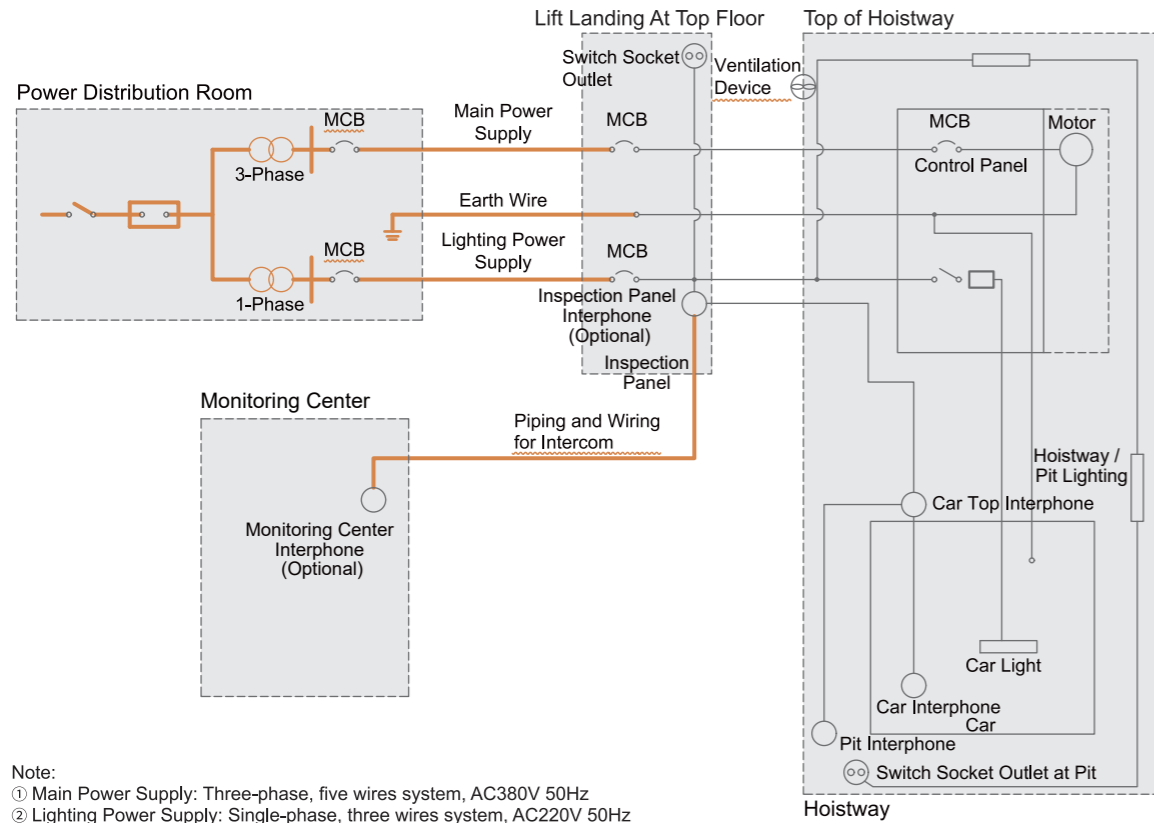


Electrical Information

The followings shall be furnished by building contractors:

~~~~~ Electrical Equipment

— Cable



Note:  
 ① Main Power Supply: Three-phase, five wires system, AC380V 50Hz  
 ② Lighting Power Supply: Single-phase, three wires system, AC220V 50Hz

| Item                            | Works to be provided by building contractor                                                                                                                 |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main Power Supply               | To provide power supply switch around the entrance of top floor. To install facilities to ensure that power supply voltage fluctuation shall be within ±7%. |
| Lighting Power Supply           | To provide lighting power supply for car lighting, fan and indicator.                                                                                       |
| Ventilation Device              | To provide mechanical ventilation to the hoistway to ensure that the temperature in the hoistway is maintained at below 40°C.                               |
| Pit light, Switch Socket Outlet | To provide single phase AC 220V, 10A switch socket outlet and pit lighting with switch below the entrance floor level for maintenance purposes.             |

# Electrical Data

| No. | Rated Load (kg) | Rated Speed (m/min) | Supply Voltage           | Circuit Breaker Capacity (A) |         | Transformer Capacity (kVA) |         | Main Power Wire Size (mm <sup>2</sup> ) |         | Earth Wire Size (mm <sup>2</sup> ) |         |
|-----|-----------------|---------------------|--------------------------|------------------------------|---------|----------------------------|---------|-----------------------------------------|---------|------------------------------------|---------|
|     |                 |                     |                          | 1 unit                       | 2 units | 1 unit                     | 2 units | 1 unit                                  | 2 units | 1 unit                             | 2 units |
| 1   | 400             | 60                  | 3Φ380V<br>1Φ220V<br>50Hz | 25                           | 32      | 6                          | 10      | 6                                       | 8       | 6                                  | 8       |
| 2   | 450             | 60                  |                          | 25                           | 32      | 6                          | 10      | 6                                       | 8       | 6                                  | 8       |
| 3   | 630             | 60                  |                          | 25                           | 40      | 7                          | 12      | 6                                       | 8       | 6                                  | 8       |
|     |                 | 90                  |                          | 32                           | 50      | 9                          | 15      | 6                                       | 10      | 6                                  | 10      |
|     |                 | 105                 |                          | 40                           | 50      | 10                         | 17      | 6                                       | 10      | 6                                  | 10      |
| 4   | 825             | 60                  |                          | 32                           | 40      | 8                          | 14      | 6                                       | 8       | 6                                  | 8       |
|     |                 | 90                  |                          | 40                           | 50      | 11                         | 18      | 8                                       | 10      | 8                                  | 10      |
|     |                 | 105                 |                          | 40                           | 63      | 12                         | 20      | 8                                       | 16      | 8                                  | 16      |
|     |                 | 120                 |                          | 40                           | 63      | 11                         | 13      | 8                                       | 25      | 8                                  | 16      |
|     |                 | 150                 |                          | 50                           | 63      | 18                         | 22      | 10                                      | 25      | 10                                 | 16      |
| 5   | 900             | 60                  |                          | 32                           | 40      | 9                          | 14      | 6                                       | 8       | 6                                  | 8       |
|     |                 | 90                  |                          | 40                           | 63      | 11                         | 19      | 8                                       | 10      | 8                                  | 10      |
|     |                 | 105                 | 40                       | 63                           | 12      | 21                         | 8       | 16                                      | 8       | 16                                 |         |
|     |                 | 120                 | 40                       | 63                           | 12      | 14                         | 10      | 25                                      | 10      | 16                                 |         |
| 6   | 1000            | 60                  | 50                       | 80                           | 20      | 24                         | 16      | 25                                      | 16      | 16                                 |         |
|     |                 | 90                  | 32                       | 50                           | 9       | 15                         | 6       | 8                                       | 6       | 8                                  |         |
|     |                 | 105                 | 40                       | 63                           | 12      | 20                         | 8       | 16                                      | 8       | 16                                 |         |
|     |                 | 120                 | 40                       | 80                           | 13      | 22                         | 8       | 16                                      | 8       | 16                                 |         |
|     |                 | 150                 | 50                       | 63                           | 13      | 22                         | 10      | 25                                      | 10      | 16                                 |         |
| 7   | 1050            | 60                  | 63                       | 80                           | 16      | 26                         | 16      | 25                                      | 16      | 16                                 |         |
|     |                 | 90                  | 32                       | 50                           | 9       | 16                         | 6       | 10                                      | 6       | 10                                 |         |
|     |                 | 105                 | 40                       | 63                           | 12      | 21                         | 8       | 16                                      | 8       | 16                                 |         |
| 8   | 1150            | 60                  | 40                       | 80                           | 14      | 23                         | 8       | 16                                      | 8       | 16                                 |         |
|     |                 | 90                  | 40                       | 50                           | 10      | 17                         | 8       | 10                                      | 8       | 10                                 |         |
|     |                 | 105                 | 50                       | 80                           | 14      | 23                         | 10      | 25                                      | 10      | 16                                 |         |
|     |                 | 120                 | 50                       | 80                           | 15      | 25                         | 14      | 25                                      | 14      | 16                                 |         |
|     |                 | 150                 | 50                       | 80                           | 14      | 24                         | 10      | 25                                      | 16      | 16                                 |         |
| 9   | 1350            | 60                  | 63                       | 100                          | 17      | 29                         | 16      | 30                                      | 16      | 16                                 |         |
|     |                 | 90                  | 40                       | 63                           | 11      | 19                         | 8       | 14                                      | 8       | 14                                 |         |
|     |                 | 105                 | 50                       | 80                           | 15      | 26                         | 10      | 25                                      | 10      | 16                                 |         |
|     |                 | 120                 | 63                       | 100                          | 17      | 29                         | 14      | 25                                      | 14      | 16                                 |         |
| 10  | 1600            | 60                  | 50                       | 80                           | 16      | 27                         | 16      | 25                                      | 16      | 16                                 |         |
|     |                 | 90                  | 63                       | 100                          | 20      | 33                         | 25      | 30                                      | 16      | 16                                 |         |
|     |                 | 105                 | 40                       | 63                           | 13      | 21                         | 8       | 16                                      | 8       | 16                                 |         |
|     |                 | 120                 | 63                       | 100                          | 17      | 29                         | 14      | 25                                      | 14      | 16                                 |         |
|     |                 | 150                 | 63                       | 100                          | 20      | 33                         | 16      | 30                                      | 16      | 16                                 |         |
| 11  | 1800            | 60                  | 63                       | 100                          | 19      | 31                         | 16      | 25                                      | 16      | 16                                 |         |
|     |                 | 90                  | 80                       | 125                          | 23      | 38                         | 25      | 30                                      | 16      | 16                                 |         |
|     |                 | 105                 | 50                       | 63                           | 13      | 22                         | 8       | 16                                      | 8       | 16                                 |         |
| 12  | 2000            | 60                  | 63                       | 100                          | 18      | 30                         | 14      | 25                                      | 14      | 16                                 |         |
|     |                 | 90                  | 63                       | 100                          | 20      | 34                         | 16      | 30                                      | 16      | 16                                 |         |
|     |                 | 105                 | 50                       | 80                           | 14      | 24                         | 8       | 16                                      | 8       | 16                                 |         |
|     |                 |                     |                          | 80                           | 100     | 20                         | 33      | 14                                      | 25      | 14                                 | 16      |
|     |                 |                     |                          | 80                           | 125     | 22                         | 37      | 25                                      | 30      | 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 (mm<sup>2</sup>) and Earth Wire Size (mm<sup>2</sup>) 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 (mm<sup>2</sup>) = [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].

