



High-Speed Passenger 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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Load (kg)	No. of Passengers ①	Speed (m/min)	Maximum Number of Stops	Maximum Travel (m)	Maximum Travel with Fireman Operation (m)	Minimum Floor Height (mm)
825	11	180/210/240				
900	12	180/210/240				
1050	14	180/210/240				
1150	15	180/210/240	64 200 210m/min:160 210m/min:185 240m/min:200	200	180m/min:160	
1350	18	180/210/240				
1600	21	180/210/240				
1800	24	180/210/240				2800
2000	26	180/210/240				
1050	14	300				
1150	15	300		210	210	
1350	18	300	64			
1600	21	300		200	200	

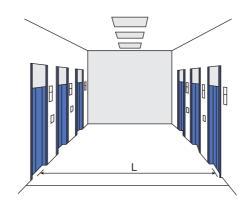
Note:
① Passenger numbers calculated at 75kg per person.
② The information above are based on GB standards.

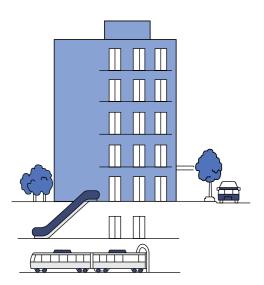
FI System



- 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 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-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.

	Instantaneous reservation and service forecasting Intelligent function Generation of new traffic flow modes Generation of optimum operation programs Congested floor recognition		
Basic	Learning	function	
Specification	Collection of usage data Recogn Search for optimum operation program	nition of traffic flow mode (40/2 modes) am	
	Arrival notice indication (
	Bunching pr		
	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-100	FI-10
Recommended number of cars in a group	3~8 cars	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
	V	/IP service, independent automatic operation	n
Optional	Service floo	or 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 or FI-100, elevator cars are operated at equal time intervals to prevent local bunching.

FI System

Basic Function ● : Basic spec. - : Not applicable

No.		Item	Content	FI-600	FI-100	FI-10
1	Instantaneous reservation and service forecasting (FI-IRF)		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.	•	•	A
	Basic call	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.	•		
3	assignment control	Reference- trajectory control (FI-RTC)	Controls the allocation of elevator cars to hall calls based on the theory used in the highest model in the FI series, FI-600, and the intelligent-based data containing our know-how accumulated over a long period of time.		•	
	Perso	nalized control	Through the hall call assignment control of waiting time priority assignment, constantly carry out operation management in accordance with waiting time priority.	•	•	
4	Waiting time	e 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.	A	A	
	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.	•	•	
		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.	•	•	
5	Learning function	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 the optimum operation program of the moment based on the identified traffic mode.	•	•	
6		ed floor recognition (FI-CFR)	Identifies congested floors according to the usage data learned in each traffic flow mode.	•		
7	a	ecasting for hall call ssignment (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.	•		
	Intelligent	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.	•		
8	function	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	Forecasting dynamic allocation control (FI-FDA)	Dynamically allocates elevator cars in response to continuously changing situation in the building by determining the area assigned to each car according to the forecasted number of passengers and car usage.	•		
10	standby	Zone distribution control (FI-ZD)	Distributes the waiting elevator cars to the pre-assigned zones.	_	•	_
		Fixed floor distribution (FI-FD)	Distributes the waiting elevator cars to the pre-assigned floors.	_	_	•

Basic Function

Basic spec.	▲ : Option spec.	— : Not applicab

No.	Item	Content	FI-600	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.	•		A
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 forcasted.	•	•	
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-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)	A		
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.	A	A	
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	DFRS	Each passenger registers their destination floor on the registration device located at the landing hall and know 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.	A		
5	Zoning express service (FI-EZS)	Start a divided express service when the peak traffic demand takes place in the present time zones.	A		

Man-machine Function

No.	Item Content		FI-600	Fl-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 Function

Staridard	Tranction		
Control S	ystem		
SA1	Simplex 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 Function		
System P	rotection		
SB1	Over Speed 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 Static Test	SB10	Lift-Position Abnormily Auto-Correction Function
SB11	Nearest Landing Operation	SB12	Anti-electromagnetic Interference
Safe Com	munication		
SC1	Interphone System (5 Ways)		
Safe Ridir	ng		
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	Multi-Beam Protection ①
SD13	Inspection Indication in Hall Indicator	SD14	Current Floor Push-Button Reopening Function ①
SD15	Overload Indicator (In Car)	SD16	Emergency Terminal Stopping Device, ETSD (For 300m/min)
Emergen	cy Solution		
SE1	Car Emergency Lighting	SE2	Fire Emergency Operation (Automatic)
Design fo	r 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
SF7	Mischievous Call Cancellation	SF8	Opposite Direction Car Call Cancellation
SF9	Car Light Auto Turn-off	SF10	Car Fan Auto Turn-off
SF11	Abnormal Duration Hall Call Detection ① (Applicable for Simplex, Duplex and FI-10 only.)	SF12	Car Floor Button Flashing ①
SF13	Car Call Deselect Function	SF14	Step-less Speed Control
SF15	Regenerative System Function	SF16	Door Bypass Detection
SF17	Overload Hall Call Recovery Function (Not applicable for FI-100 and FI-600.)	SF18	Base Floor Selection (Applicable for Simplex only.)
SF19	Car Call Limitation		

Note:

Optional Function

Control S	System		
OA1	Simplex Down Collective Control	OA2	Duplex Collective Control
OA3	Duplex Down Collective Control	OA4	FI-10 ①
OA5	FI-100 ①	OA6	FI-600 ①
OA7	Independent Automatic Operation ①	OA8	VIP Service
OA9	Rush Hour Schedule Operation (Not applicable for FI-100)		
Safe Co	ommunication		
OB1	Contact at Control Panel (RS485)	OB2	Elevator Monitoring System (Computer Type)
OB3	Supervisory Panel (Dry Contact Type)	OB4	Twisted Pair Cable (1 pair) for CCTV
OB5	Twisted Pair Cable (1 pair) for BGM Interface	OB6	Contact at Control Panel (Dry Contact)
OB7	Camera Device Inside the Car		
Safe Rid	ling		
OC1	Multi-Beam + Safety Edge Protection	OC2	Card Reader Interface (In Car) (RS485) ① (Not applicable when OE5 is selected.)
Emerge	ncy Solution		
OD1	Fireman Operation (Load≥825kg)	OD2	Automatic Rescue Device (ARD) (Maximum travel distance ≤30m)
OD3	EM. Operation for Power Failure (Manual)	OD4	EM. Operation for Power Failure (Auto)
OD5	Earthquake Emergency Operation	OD6	Pit Flood Operation
OD7	Emergency Terminal Stopping Device, ETSD (For HCA 210~240m/min)		
Design t	for Comfort		
OE1	Attendant Operation	OE2	Independent Operation
OE3	Voice Synthesizer	OE4	Arrival Chime (Car Top and Bottom)
OE5	Floor Lock Out Operation ① (Not applicable when OC2 is selected.)	OE6	Door Opening Prolong Button
OE7	Hall Call Registration in Car Operating Panel (Applicable when OE1 is selected)	OE8	Sub Car Operating Panel
OE9	Double Opening Function ① (Not applicable for FI-100, FI-600 and FI-10 (>48 stops.)	OE10	Horizontal Car Operating Panel
OE11	Braille Button	OE12	EMC ①
OE13	Operation Status Indication at Hall Indicator	OE14	DFRS (Under FI-600)
OE15	Hall Call Deselect Function ① (Applicable for Simplex, Duplex and FI-10 only.)		

Details, please contact us.

Details, please contact us.

Overhead Height and Pit Depth

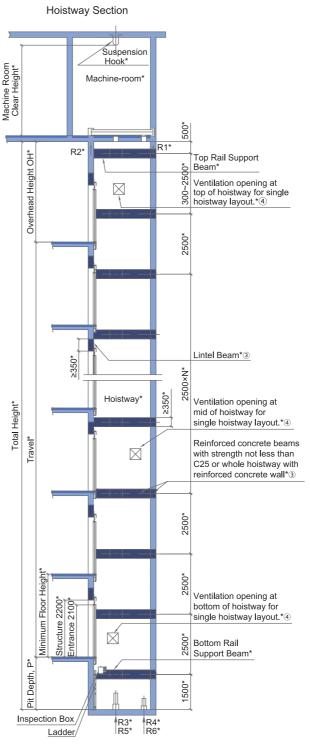
Hoistway and Machine Room (Standard Car Design, Counterweight Location: Rear)

Load (kg)	Speed (m/min)	Overhead Height OH (mm)		Pit Depth P (mm)		
(116)	(,	Travel < 100m	100m < Travel≤200m	Travel < 100m	100m ≤ Travel ≤ 150m	150m < Travel ≤ 200m
	180	5500	5500	2890	3170	3170
825	210	5790	5790	3070	3360	3360
	240	6190	6190	3920	3920	3920
	180	5500	5500	2890	3170	3170
900	210	5790	5790	3070	3360	3360
	240	6190	6190	3920	3920	3920
	180	5500	5500	2910	3190	3270
1050	210	5910	5790	3090	3380	3460
	240	6190	6190	3920	3920	3970
	180	5500	5500	2910	3190	3270
1150	210	5910	5790	3090	3380	3460
	240	6190	6190	3920	3920	3970
	180	5500	5500	2940	3220	3300
1350	210	5790	5790	3120	3410	3490
	240	6190	6190	3920	3920	3970
	180	5500	5500	2940	3300	3430
1600	210	5790	5790	3120	3490	3620
	240	6190	6190	3970	3970	4120
	180	5500	5500	2970	3460	3460
1800	210	5790	5790	3150	3650	3650
	240	6190	6190	4120	4120	4120
	180	5500	5500	2970	3460	3460
2000	210	5790	5790	3150	3650	3650
	240	6190	6190	4120	4120	4120

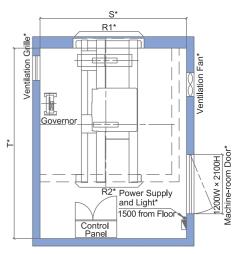
Load (kg)	Speed (m/min)	Overhead (m	Pit Depth P (mm)	
(ng)	(111/111111)	Travel ≤200m	200m <travel 210m<="" th="" ≤=""><th>(11111)</th></travel>	(11111)
1050	300	5740	5900	3580
1150	300	5740	5900	3580
1350	300	5740	5900	3580
1600	300	5600		3730

Note:

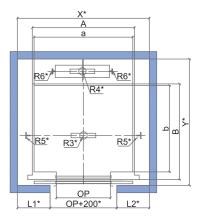
- ① The information and dimensions above are based on GB standards.
- 2 Configuration is based on rear counterweight arrangement without counterweight safety gear.
- ③ The information above is based on decoration weight provision up to 300kg (For load 1050kg & 1150kg) and 500kg (For load ≤900kg & load ≥1350kg).
- ④ The overhead height above is based on bare ceiling height of 2450mm (For Speed ≤240m/min) and 2600mm (For Speed = 300m/min).
- ⑤ The pit depth above is based on standard vinyl tile finish without floor recess.



Machine-room Plan (Not applicable for speed 300m/min)



Hoistway Plan (Not applicable for speed 300m/min)

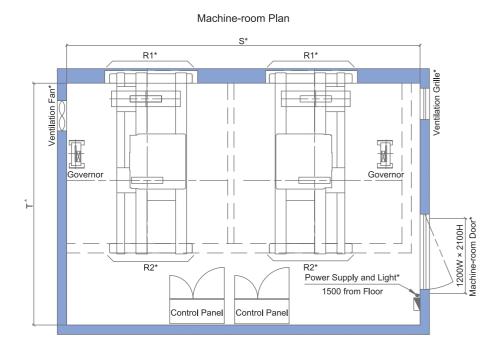


Note:

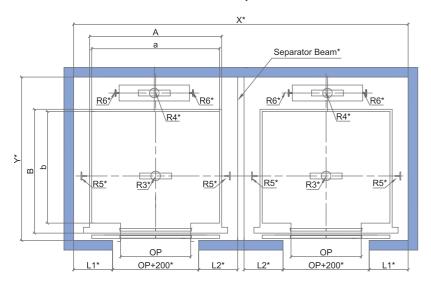
- 1) Items with "*" shall be furnished by building contractors.
- ② Hoistway shall not be located next to bedrooms, classroom, ward, library or any other places where low noise is required.
- ③ The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforced concrete wall. If you have other situations, please contact us.
- ④ For hoistway and machine room details, please contact us.
- ⑤ Unit of dimension shall be in mm unless otherwise stated.

Load (kg)	Speed (m/min)	Machine-room Clear Height (mm)	Suspension Hook Capacity (Tons)
825/900/1050/1150/ 1350/1600/1800/2000	180/210/240	2500	4
1050/1150/1350/1600	300	2500	4

Hoistway and Machine Room (Standard Car Design, Counterweight Location: Rear)



Hoistway Plan



Note:

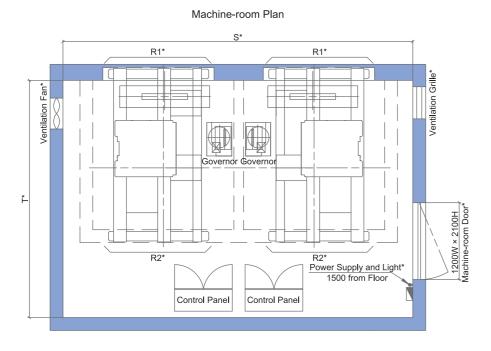
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- 4 For hoistway and machine room details, please contact us.
- ⑤ Unit of dimension shall be in mm unless otherwise stated.

Load	Speed		Size nm)	Door C	pening m)	Arrang	t Wall jement im)		stway nm)	Machin (m	Reaction Loading (KN)				ng		
(kg)	(m/min)	Internal	External	Type	Width	L1	L2 X×Y		·Υ	S×T		Machine Room		Pit			
		(a×b)	(A×B)	.,,,,,	Wideii			Single	Double	Single	Double	R1	R2	R3	R4	R5	R6
	180																
825	210	1400×1350	1470×1540	2P-CO	800	475	475	1950×2150	4050×2150	2400×3450	4950×3450	155	105	250	225	110	40
	240																
	180																
900	210	1600×1350	1670×1540	2P-CO	900	525	525	2150×2150	4450×2150	2500×3450	5150×3450	160	105	260	240	110	40
	240																
	180																
1050	210	1600×1500	1670×1690	2P-CO	900	525	525	2150×2300	4450×2300	2500×3600	5150×3600	160	110	270	250	115	40
	240																
	180																
1150	210	1800×1500	1870×1690	2P-CO	1000	575	575	2350×2300	4850×2300	2600×3600	5350×3600	170	115	280	260	130	40
	240																
	180																
1350	210	2000×1500	2070×1690	2P-CO	1100	625	625	2550×2300	5250×2300	2690×3600	5530×3600	180	125	300	275	135	40
	240																
	180																
1600	210	2000×1700	2070×1890	2P-CO	1100	625	625	2550×2500	5250×2500	2690×3800	5530×3800	190	125	310	280	135	40
	240																
	180																
1800	210	2200×1700	2270×1890	2P-CO	1200	675	675	2750×2500	5650×2500	2800×3800	5750×3800	210	135	335	300	135	40
	240																
	180																
2000	210	2200×1850	2270×2040	2P-CO	1200	675	675	2750×2650	5650×2650	2800×3950	5750×3950	210	140	335	300	135	40
	240																

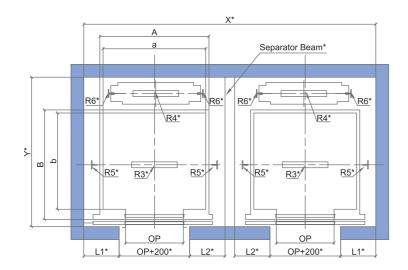
Note:

- $\ensuremath{\mathfrak{I}}$ The information and dimensions above are based on GB standards.
- $\stackrel{\frown}{\text{\tiny{(2)}}}$ Hoistway dimension for double elevators are based on 150mm width separator beam.
- 3 Configuration is without counterweight safety gear.

Hoistway and Machine Room (Standard Car Design, Counterweight Location: Rear)



Hoistway Plan



Note:

- ① Items with "*" shall be furnished by building contractors.
- ② Hoistway shall not be located next to bedrooms, classroom, ward, library or any other places where low noise is required.
- ③ 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.
- 4 For hoistway and machine room details, please contact us.
- ⑤ Unit of dimension shall be in mm unless otherwise stated.

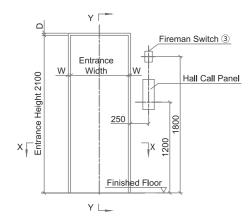
Load	Speed	Car Size (mm) Speed		Arrandement		ement	Hoistway Machine (mm) Machine Room (mm)		Reaction Loading (KN)						
(kg)	(m/min)	Internal	External	Туре	Width	L1	L2	X×Y	S×T	Mac Ro			Р	it	
		(a×b)	(A×B)		Widdi			Double	Double	R1	R2	R3	R4	R5	R6
1050	300	1600×1500	1700×1705	2P-CO	900	550	550	4550×2330	5455×3700	210	145	310	280	130	50
1150	300	1800×1500	1900×1705	2P-CO	1000	600	600	4950×2330	5610×3700	210	145	310	280	130	50
1350	300	2000×1500	2100×1705	2P-CO	1100	650	650	5350×2330	5850×3700	210	145	310	280	135	50
1600	300	2000×1700	2100×1905	2P-CO	1100	650	650	5350×2530	5850×3900	210	145	310	280	135	50

Note:

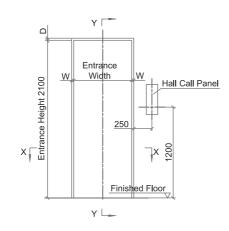
- ① The information and dimensions above are based on GB standards.
- ② Hoistway dimension for double elevators are based on 150mm width separator beam.
- ③ Configuration is without counterweight safety gear.

Entrance Design

Elevation of Entrance

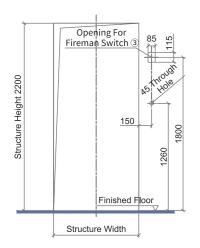






For Entrance Without Fireman Switch

Structure Opening of Entrance ①



For Entrance With Fireman Switch

Structure Height 2200	II.	150	1260 Hope
	Structur		

For Entrance Without Fireman Switch

Туре	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 function with fireman switch is located at lift landing.

Entrance Design

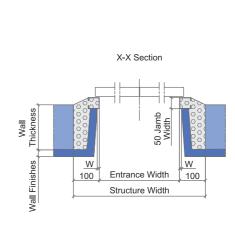
The followings shall be furnished by building contractors:

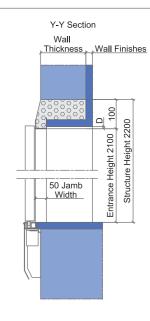
Building Structure

Wall and Floor Finishes

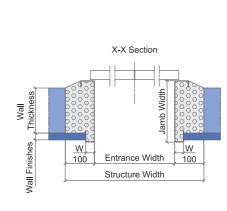
Grouting Work

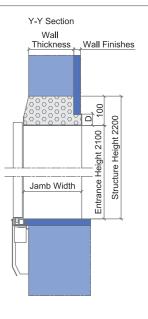
Narrow Jamb (AS-1X)





Wide Jamb (SS-1X)





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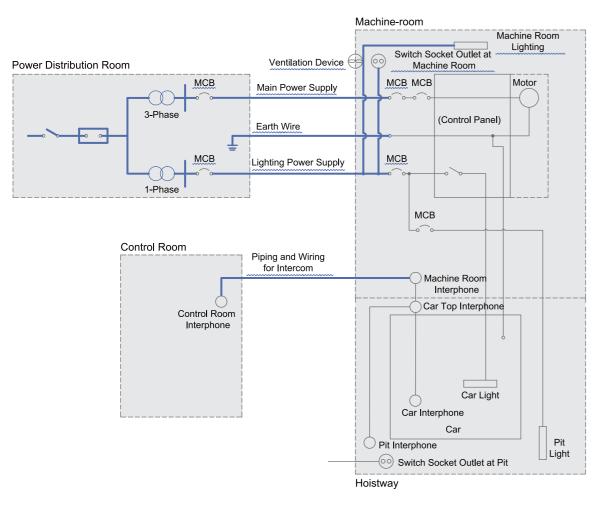
Electrical Information

Electrical Data

The followings shall be furnished by building contractors:

---- Electrical Equipment

— Cable



- 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 machine room. 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 machine room to ensure that the temperature in the machine room 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.						

No.	Load	Speed							Main Power Vire Size (mm²)		/ire Size m²)	Machine Room Ventilation	
140.	(kg)	(m/min)	ronago	1 unit	2 units	1 unit	2 units	1 unit	2 units	1 unit	2 units	Ventilation Fan Size Dia (Ø mm)	
		180		75	100	18	30	30	50	16	25	350	
1	825	210		75	125	20	34	30	60	16	30	350	
		240		75	125	23	38	35	80	16	40	350	
		180		75	100	19	33	30	50	16	25	350	
2	900	210]	75	125	22	37	35	60	16	30	350	
		240		75	125	24	41	35	80	16	40	400	
		180		75	125	22	37	35	60	16	30	350	
	4050	210	1	75	125	25	41	35	80	16	40	400	
3	1050	240	1	75	160	27	46	50	80	25	40	400	
		300		125	180	36	56	60	125	30	63	350×2	
		180]	75	125	23	39	35	80	16	40	400	
	4450	210		75	160	26	45	50	80	25	40	400	
4	1150	240]	125	160	30	50	50	100	25	50	400	
		300	3Ф380V	125	180	39	60	60	125	30	63	350×2	
		180	1Ф220V 50Hz	75	160	27	45	50	80	25	40	400	
5	4250	210		125	160	30	51	50	100	25	50	400	
Э	1350	240		125	180	34	57	60	125	30	63	350×2	
		300		125	180	41	69	60	125	30	63	350×2	
		180		125	160	31	52	50	100	25	50	400	
6	1600	210		125	180	35	59	60	125	30	63	350×2	
0	1600	240		125	180	39	66	80	150	40	75	350×2	
		300		160	250	48	81	80	150	40	75	400×2	
		180		125	180	34	57	60	125	30	63	350×2	
7	1800	210		125	180	39	65	80	150	40	75	350×2	
		240		125	200	43	74	80	200	40	100	400×2	
		180		125	180	37	63	80	150	40	75	350×2	
8	2000	210		125	200	42	72	80	200	40	100	400×2	
		240		160	250	48	81	100	200	50	100	400×2	

② Ventilation rate of fan shall be as below:

Fan Size (Φmm)	Ventilation Rate (m³/h)
200	540
250	930
300	1740
350	2460
400	3720

 $[\]ensuremath{\textcircled{1}}$ The main power wire size specified above is applicable for wire length less than 220m. For main power wire length more than 220m, please calculate using the following formula: Main power wire size(mm2) = [Actual wire length / 220]×[Wire size in above table]

Note

Working environment of the elevator shall be as follow:

- 1. 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 ±7°C.
- 4. Surrounding environment shall be free from explosive & corrosive hazard, anti-insulation and conductive particles atmosphere.

About hoistway and machine-room:

1. Hoistway walls (including reinforced concrete ring beams) should be vertical, and the allowable deviation for the hoistway verticality is:

Total Height ≤ 30m:0~+25mm.

30m<Total Height ≤ 60m:0~+35mm

Total Height > 60m:0~+50mm

- 2. Hoistway walls shall be 200mm concrete walls.
- 3. Elevator hoistway is preferably not located in the space above accessible area. If the actual situation cannot meet the regulations, please contact us.
- 4. If elevator hoistway is of steel structure construction, please contact us.
- 5. Hoistway and machine room walls, floors and roofs should be able to absorb a large number of elevator operation noise.
- 6. 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.

Work to be done by Building Contractors:

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

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