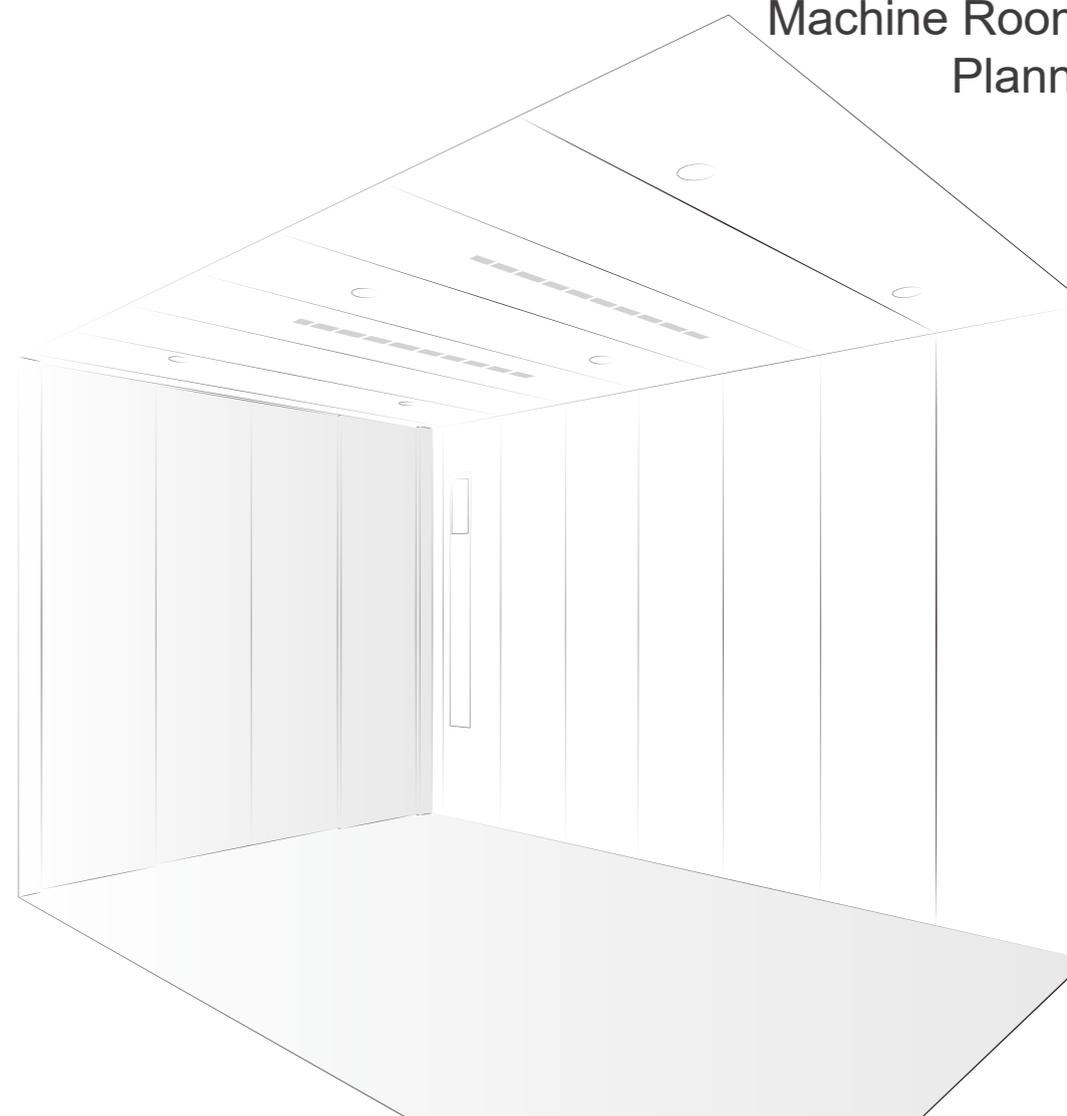


# LF-II

## 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.

02	Elevator Specification
03	Car Design
07	Decoration Device
08	Decoration Elements
09	Elevator Function
11	Hoistway and Machine Room
25	Entrance Design
29	Electrical Information
30	Electrical Data
31	Civil Works Matters

Rated Load (kg)	Rated Speed (m/min)	Maximum One Time Loading <sup>[#1]</sup> (kg)	Maximum Number of Stops	Maximum Travel (m)	Minimum Floor Height (mm)
1600	30	960	8	40	2800
	60		16	70	
2000	30	1200	8	40	
	60		16	70	
3000	30	1800	8	40	
	60		16	70	
4000	30	2400	8	30	2800
	45		16	40	
5000	30	3000	8	30	
	45		16	40	
4000	30	4000	16	30	3200
	45			60	
5000	30	5000	16	30	
	45			60	

Notes:

[#1] Maximum one time loading refers to the maximum weight (Includes loading equipment, goods and handler) per loading.

[#2] Rated load ≥ 4000kg: When using forklift for loading/unloading, the following requirements must be met.

(a) Maximum one time loading must be within the specification range.

(b) Total weight of the goods must be within the rated load.

(c) During loading, if the overload alarm sound, loading shall stop and forklift to exit the car immediately.

[#3] The above information are based on GB7588-2003 standards.

1600kg 2000kg

3000kg

Option

4000kg 5000kg

Option



Car Ceiling	Painted Steel_CP30 (Light Cyan)
	LED Lighting
Car Ceiling Height	2200mm
Entrance Height	2100mm
Car Door	Painted Steel_CP30 (Light Cyan)
Car Walls	Painted Steel_CP30 (Light Cyan)
Car Floor	Checkered Steel Plate

Car Ceiling	Painted Steel_CP30 (Light Cyan)
	LED Lighting
Car Ceiling Height	2200mm
Entrance Height	2100mm
Car Door	Painted Steel_CP30 (Light Cyan)
Car Walls	Painted Steel_CP30 (Light Cyan)
Car Floor	Checkered Steel Plate

Car Ceiling	Painted Steel_CP30 (Light Cyan)
	LED Lighting
Car Ceiling Height	2400mm
Entrance Height	2400mm
Car Door	Painted Steel_CP30 (Light Cyan)
Car Walls	Painted Steel_CP30 (Light Cyan)
Car Floor	Checkered Steel Plate

1600kg 2000kg

3000kg

Option

4000kg 5000kg

Option



Car Ceiling	Stainless Steel Hairline LED Lighting
Car Ceiling Height	2200mm
Entrance Height	2100mm
Car Door	Stainless Steel Hairline
Car Walls	Stainless Steel Hairline
Anti-Collision Protection	Stainless Steel Hairline (3 Sides)
Car Floor	Checkered Steel Plate

Car Ceiling	Stainless Steel Hairline LED Lighting
Car Ceiling Height	2200mm
Entrance Height	2100mm
Car Door	Stainless Steel Hairline
Car Walls	Stainless Steel Hairline
Anti-Collision Protection	Stainless Steel Hairline (3 Sides)
Car Floor	Checkered Steel Plate

Car Ceiling	Stainless Steel Hairline LED Lighting
Car Ceiling Height	2400mm
Entrance Height	2400mm
Car Door	Stainless Steel Hairline
Car Walls	Stainless Steel Hairline
Anti-Collision Protection	Stainless Steel Hairline (3 Sides)
Car Floor	Checkered Steel Plate

## Operating Panel

Option

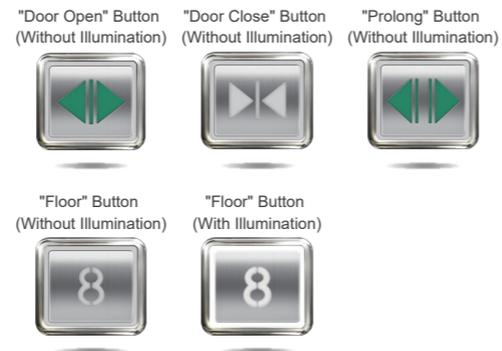


## Button

Option

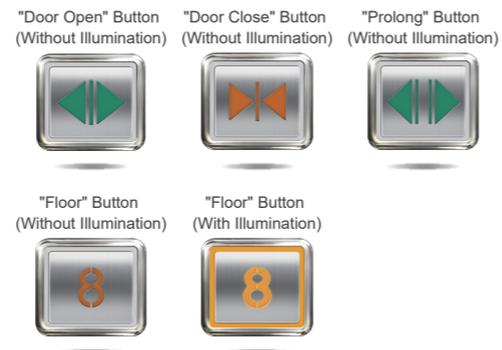
### GL-MW

- Dimension:42x37mm
- Material:Rim in stainless steel, Faceplate in stainless steel hairline
- Illumination:Symbol and periphery lighted up in white
- Button with braille is available as option for maximum 2 digits.



### GL-MOA

- Dimension:42x37mm
- Material:Rim in stainless steel, faceplate in stainless steel hairline
- Illumination:Symbol and periphery lighted up in orange
- Button with braille is available as option for maximum 2 digits.



## Landing Door / Jamb

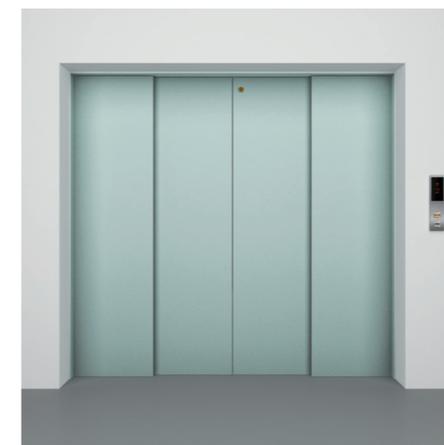
Option



Landing Door: Painted Steel\_CP30 (Light Cyan)  
Landing Jamb: Painted Steel\_CP30 (Light Cyan)  
Door Type: Side Opening, 2S-2P



Landing Door: Stainless Steel Hairline  
Landing Jamb: Stainless Steel Hairline  
Door Type: Side Opening, 2S-2P



Landing Door: Painted Steel\_CP30 (Light Cyan)  
Landing Jamb: Painted Steel\_CP30 (Light Cyan)  
Door Type: 4 Panels Center Opening, 4P-CO



Landing Door: Stainless Steel Hairline  
Landing Jamb: Stainless Steel Hairline  
Door Type: 4 Panels Center Opening, 4P-CO

# Elevator Function

## Standard Functions

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	Unintended Car Movement Protection, UCMP Function ①
SB13	Intelligent Auxiliary Brake Function	SB14	Ascending Car Overspeed Protection, ACOP Function
SB15	Anti-Electromagnetic Interference		
Safe Communication			
SC1	Car Intercom Communication	SC2	Car Top Intercom Communication
SC3	Pit Intercom Communication		
Safe Riding			
SD1	Alarm System	SD2	Full Load Bypass Operation
SD3	Overload Detection System	SD4	Overload Alarm
SD5	Next Drive (Door Open Abnormity)	SD6	Door Opening/Closing Time Abnormity Protection
SD7	Automatic Door Dwell Time Control	SD8	Automatic Door Dwell Time Adjustment
SD9	Number Of Runs Indicator	SD10	Intelligent Multi-Beam Protection
SD11	Maintenance Indication At Hall Indicator	SD12	Overload Indicator (In Car)
Emergency Solution			
SE1	Out Of Door-Open Zone Alarm	SE2	Car Emergency Lighting
SE3	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 ≥ 20m)	SF6	Opposite Direction Car Call Cancellation
SF7	Car Light Auto Turn-Off	SF8	Car Fan Auto Turn-Off
SF9	Abnormal Duration Hall Call Detection	SF10	Step-Less Speed Control
SF11	Door Bypass Detection	SF12	Door Opening Prolong Button
SF13	Independent Operation	SF14	Door Opening Prolong Function (Hall)
SF15	Car Floor Button Flashing		

Note:  
① For details, please contact us.

# Elevator Function

## Optional Functions

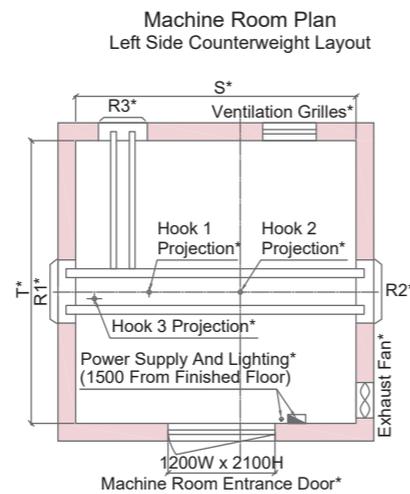
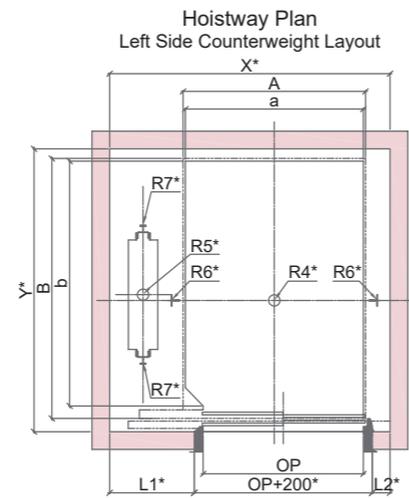
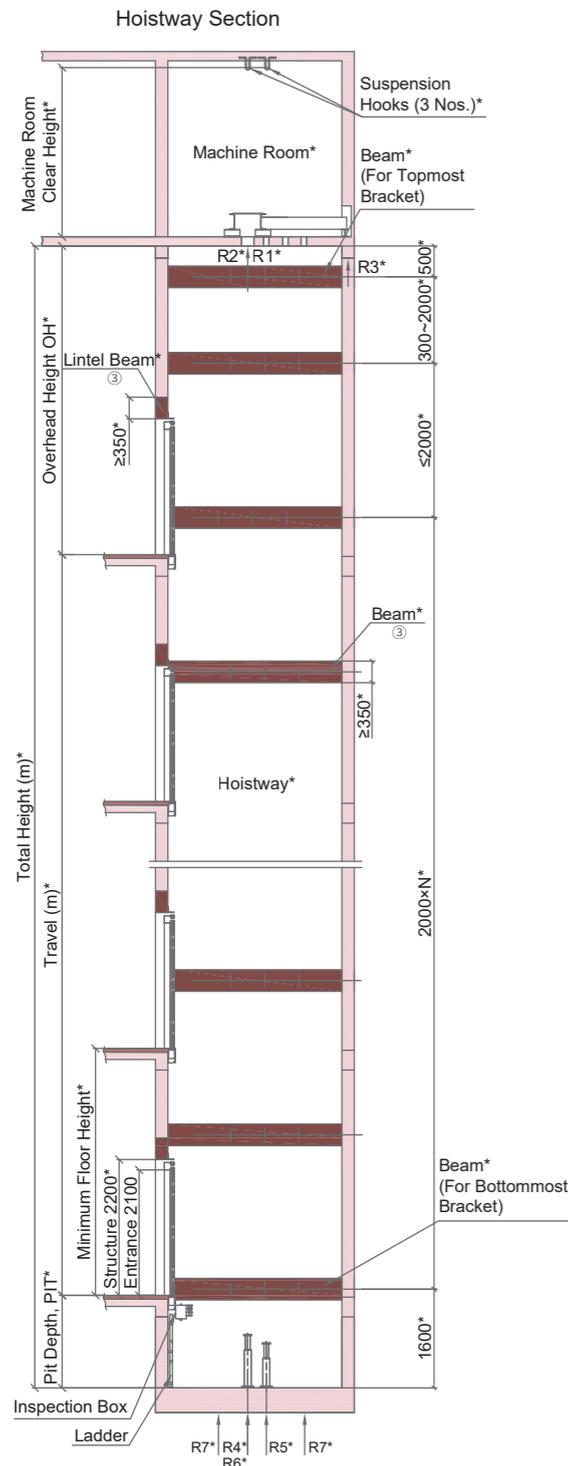
Control System			
OA1	Down Collective Control	OA2	Duplex Collective Control
OA3	Independent Automatic Operation (For Duplex Control) ①		
Safe Communication			
OB1	Interphone System (5 Ways) (5 Ways: Monitoring Center, Machine Room, In Car, Car Top & Pit)		
Safe Riding			
OC1	IC Card Security System (In Car) (Not applicable with OC2, OC4 or OE4)	OC2	IC Card Security System (Hall) (Not applicable with OC1, OC4 or OE4)
OC3	Multi-Beam + Safety Edge Protection	OC4	Hitachi Smart Security [ITM] Interface (Not applicable with OC1, OC2 or OE4)
OC5	Contact At Control Panel (RS485)	OC6	Contact At Control Panel (Dry Contacts) (Not applicable with OC7)
OC7	Supervisory Panel (Dry Contact Type) (Not applicable with OC6)	OC8	Elevator Monitoring System (Computer Type)
OC9	Twisted Pair Cable (1 Pair) For CCTV Interface	OC10	Twisted Pair Cable (1 Pair) For BGM Interface
Emergency Solution			
OD1	Fireman Operation	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	Voice Synthesizer
OE3	Arrival Chime (Car Top & Bottom)	OE4	Floor Lockout Operation (Not applicable with OC1, OC2 or OC4)
OE5	Overloading Hall Call Recovery Function	OE6	Sub Car Operating Panel
OE7	Double Opening Function	OE8	Hall Call Deselect Function
OE9	Operation Status Indication At Hall Indicator	OE10	Car Call Deselect Function
OE11	Micro Levelling (Travel < 20m)	OE12	Advance Door Opening
OE13	Electromagnetic Compatibility (EMC) Function	OE14	Manual Re-Levelling Function (Only applicable with either SF5 or OE11)
OE15	Robotics System Interface ①	OE16	Regenerative System Function ①

Note:  
① For details, please contact us.

# Hoistway and Machine Room (Side Opening)

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 The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforce concrete wall. For 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.
  - ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hooks Capacity (Tons)
1600	30/60	2500	3
2000	30/60	2500	4
3000	30/60	2500	5

# Hoistway and Machine Room (Side Opening)

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 (a*b)	Car Outside (A*B)	Type	Width OP	L1	L2			R1	R2	R3	R4	R5	R6	R7
1600 (Single Opening)	30	1600*2100	1650*2271	2S-2P	1500	800	200	2700*2530	2700*2530	100	70	7	170	140	55	5
	60															
2000 (Single Opening)	30	1600*2500	1650*2671	2S-2P	1500	800	200	2700*2930	2700*2930	115	80	10	190	150	55	5
	60															
3000 (Single Opening)	30	2000*2770	2050*2941	2S-2P	1800	950	200	3150*3200	3150*3200	165	110	15	300	220	85	5
	60															

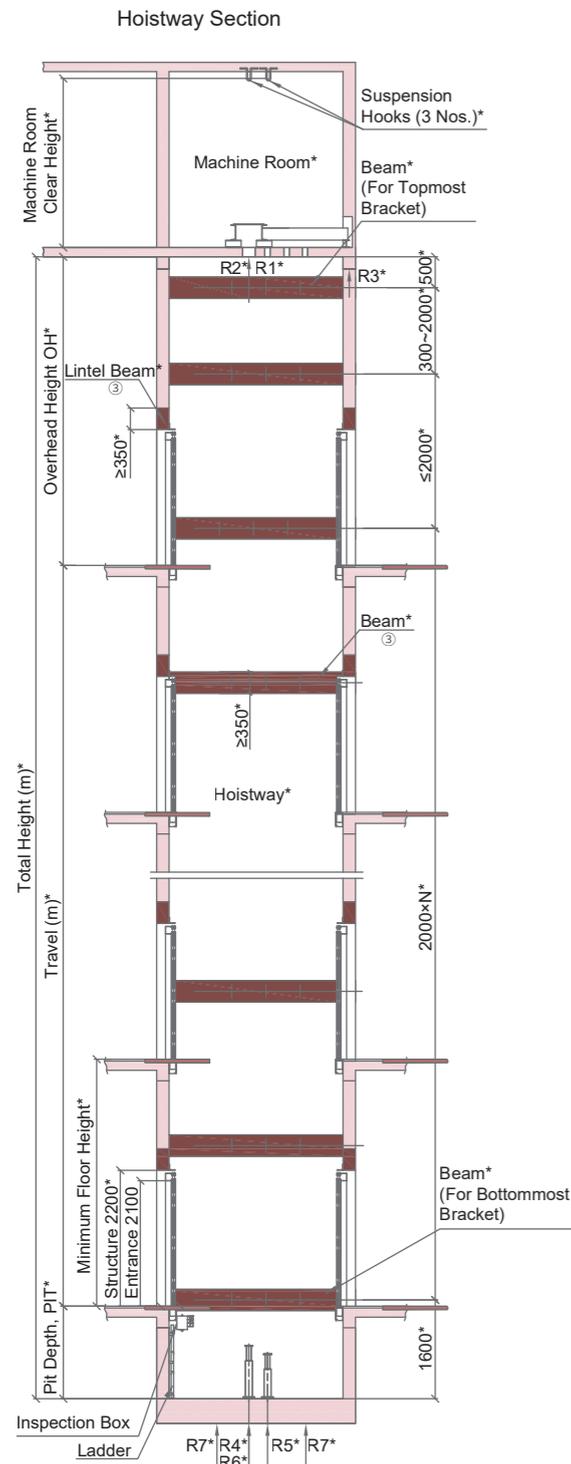
Rated Load (kg)	Rated Speed (m/min)	Overhead Height, OH (mm)	Pit Depth, PIT (mm)
1600	30	4000	1350
	60	4050	1350
2000	30	4000	1350
	60	4050	1350
3000	30	4000	1350
	60	4050	1350

- Note:
- ① The above information are based on GB7588-2003 standards.
  - ② Configuration is without counterweight safety gear.
  - ③ The front wall arrangement "L1" and "L2" are based on left side counterweight layout.
  - ④ Configuration is based on decoration weight provision up to 300kg.
  - ⑤ The overhead height, OH is based on bare ceiling height of 2200mm.
  - ⑥ The pit depth, PIT is based on standard checkered steel plate finish without floor recess.

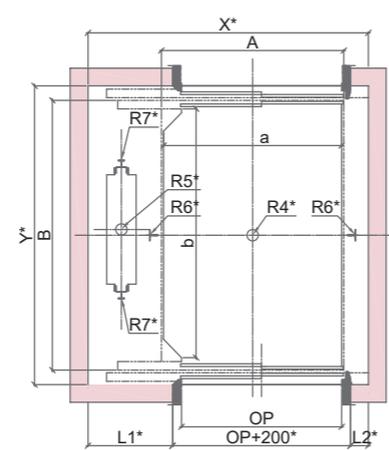
# Hoistway and Machine Room (Side Opening)

The followings shall be furnished by building contractors:

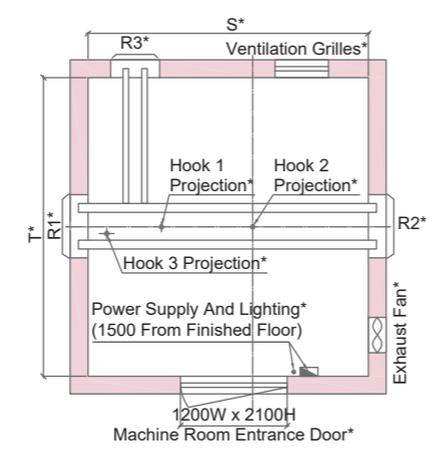
- Building Structure
- Wall And Floor Finishes
- Beam



Hoistway Plan  
Left Side Counterweight Layout



Machine Room Plan  
Left Side Counterweight Layout



Note:

- ① The above information are based on GB7588-2003 standards.
- ② Items with "\*" shall be furnished by building contractors.
- ③ The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforce concrete wall. For 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.
- ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hooks Capacity (Tons)
1600	30/60	2500	3
2000	30/60	2500	4
3000	30/60	2500	5

# Hoistway and Machine Room (Side Opening)

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 (a*b)	Car Outside (A*B)	Type	Width OP	L1	L2			R1	R2	R3	R4	R5	R6	R7
1600 (Double Opening)	30	1600*2100	1650*2382	2S-2P	1500	800	200	2700*2710	2700*2710	100	70	7	170	140	55	5
	60															
2000 (Double Opening)	30	1600*2500	1650*2782	2S-2P	1500	800	200	2700*3110	2700*3110	115	80	10	190	150	55	5
	60															
3000 (Double Opening)	30	2000*2770	2050*3052	2S-2P	1800	950	200	3150*3380	3150*3380	165	110	15	300	220	85	5
	60															

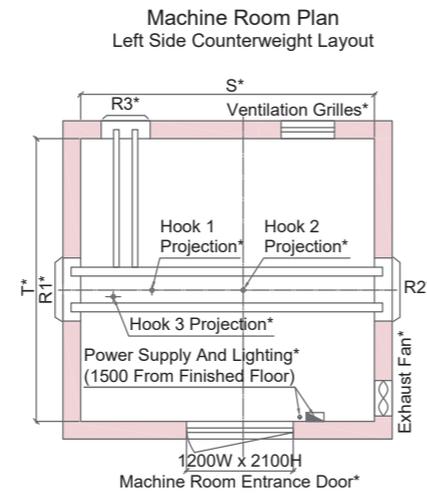
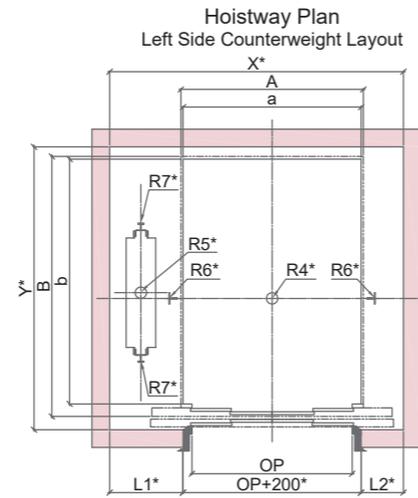
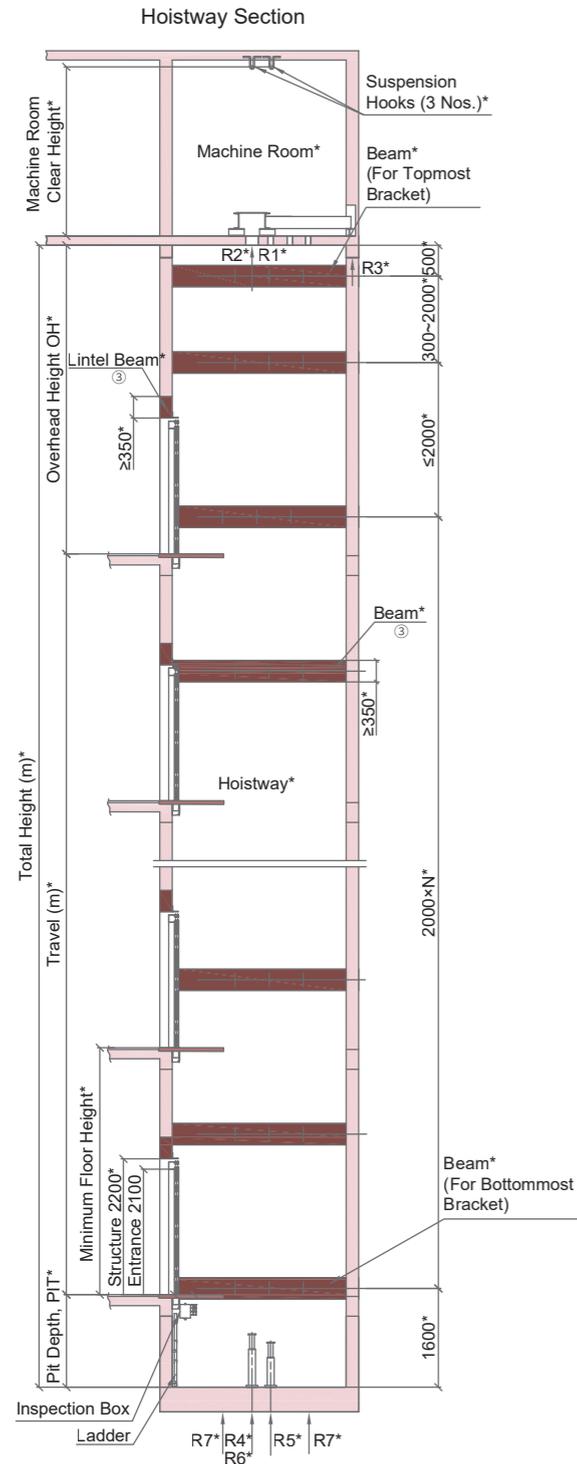
Rated Load (kg)	Rated Speed (m/min)	Overhead Height, OH (mm)	Pit Depth, PIT (mm)
1600	30	4000	1350/1720
	60	4050	1350/1720
2000	30	4000	1350/1720
	60	4050	1350/1720
3000	30	4000	1350/1720
	60	4050	1350/1720

- Note:
- ① The above information are based on GB7588-2003 standards.
  - ② Configuration is without counterweight safety gear.
  - ③ The front wall arrangement "L1" and "L2" are based on left side counterweight layout.
  - ④ Configuration is based on decoration weight provision up to 300kg.
  - ⑤ The overhead height, OH is based on bare ceiling height of 2200mm.
  - ⑥ The pit depth, PIT is based on standard checkered steel plate finish without floor recess.
  - ⑦ When there is front/rear entrance on the lowest floor and there is no openings on the same side at other floors, pit depth shall be 1720mm. Otherwise, pit depth shall be 1350mm.

# Hoistway and Machine Room (4 Panels Center Opening)

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 The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforce concrete wall. For 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.
  - ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hooks Capacity (Tons)
1600	30/60	2500	3
2000	30/60	2500	4
3000	30/60	2500	5

# Hoistway and Machine Room (4 Panels Center Opening)

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 (a×b)	Car Outside (A×B)	Type	Width OP	L1	L2			R1	R2	R3	R4	R5	R6	R7
1600 (Single Opening)	30	1600×2100	1650×2271	4P-CO	1500	650	450	2800×2530	2800×2530	100	70	7	170	140	55	5
	60															
2000 (Single Opening)	30	1600×2500	1650×2671	4P-CO	1500	650	450	2800×2930	2800×2930	115	80	10	190	150	55	5
	60															
3000 (Single Opening)	30	2000×2770	2050×2941	4P-CO	1800	850	450	3300×3200	3300×3200	165	110	15	300	220	85	5
	60															

Rated Load (kg)	Rated Speed (m/min)	Overhead Height, OH (mm)	Pit Depth, PIT (mm)
1600	30	4000	1350
	60	4050	1350
2000	30	4000	1350
	60	4050	1350
3000	30	4000	1350
	60	4050	1350

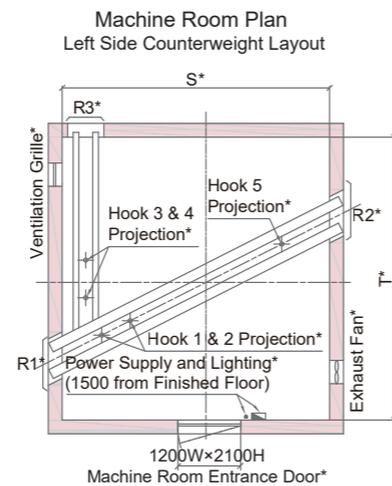
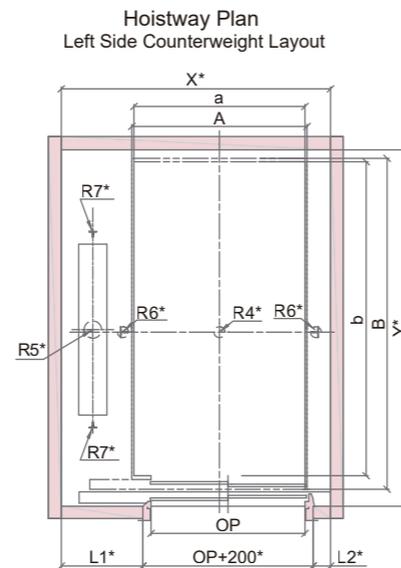
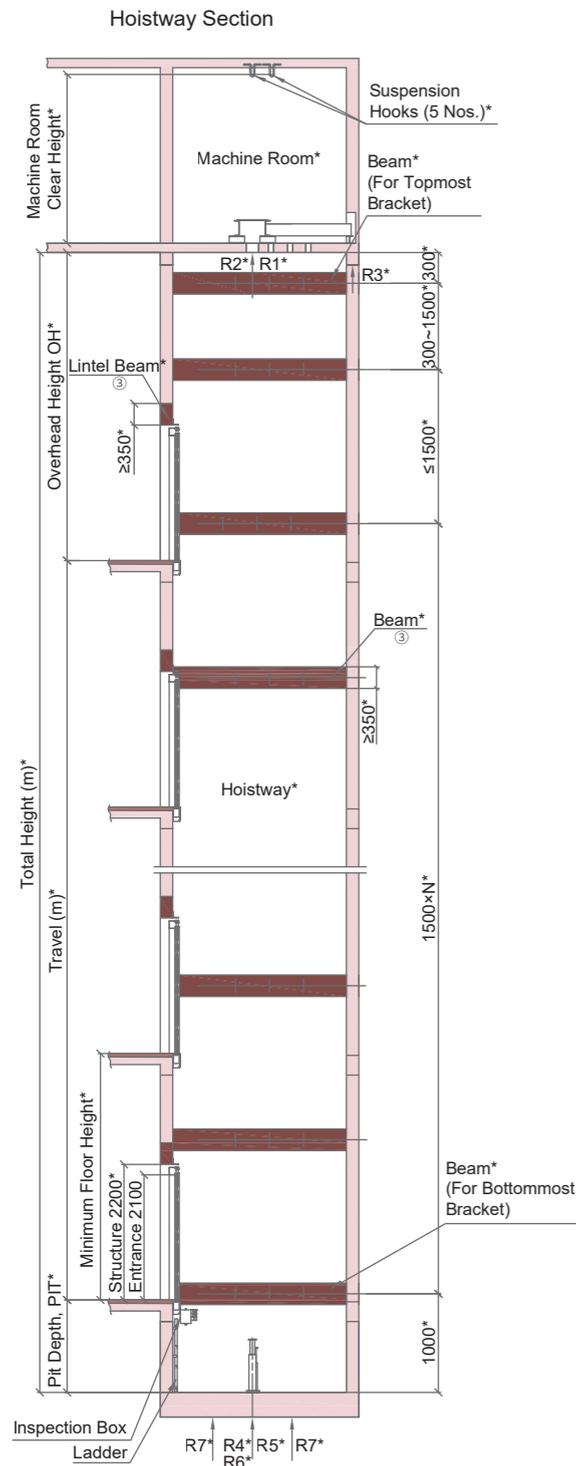
- Note:
- ① The above information are based on GB7588-2003 standards.
  - ② Configuration is without counterweight safety gear.
  - ③ The front wall arrangement "L1" and "L2" are based on left side counterweight layout.
  - ④ Configuration is based on decoration weight provision up to 300kg.
  - ⑤ The overhead height, OH is based on bare ceiling height of 2200mm.
  - ⑥ The pit depth, PIT is based on standard checkered steel plate finish without floor recess.

# Hoistway and Machine Room (Side Opening)

# Hoistway and Machine Room (Side Opening)

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 The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforce concrete wall. For 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.
  - ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hooks Capacity (Tons)
4000	30/45	2500	6
5000	30/45	2500	6

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 (a×b)	Car Outside (A×B)	Type	Width OP	L1	L2			R1	R2	R3	R4	R5	R6	R7
4000 (Single Opening)	30	2400×3000	2450×3176	2S-2P	1800	1370	480	3850×3430	3850×3430	225	135	50	420	360	120	6
	45															
5000 (Single Opening)	30	2400×3600	2450×3776	2S-2P	1800	1370	480	3850×4030	3850×4030	250	150	50	480	390	140	6
	45															

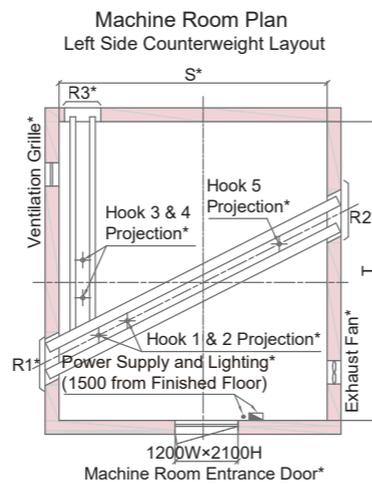
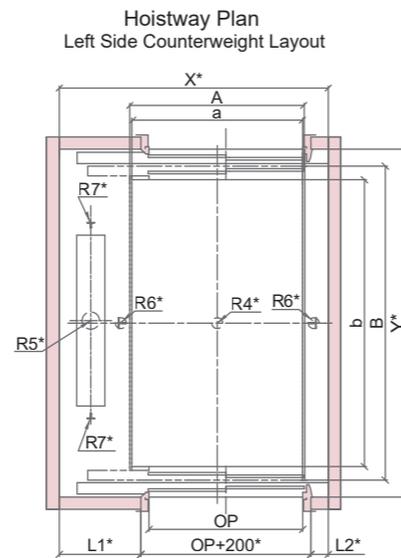
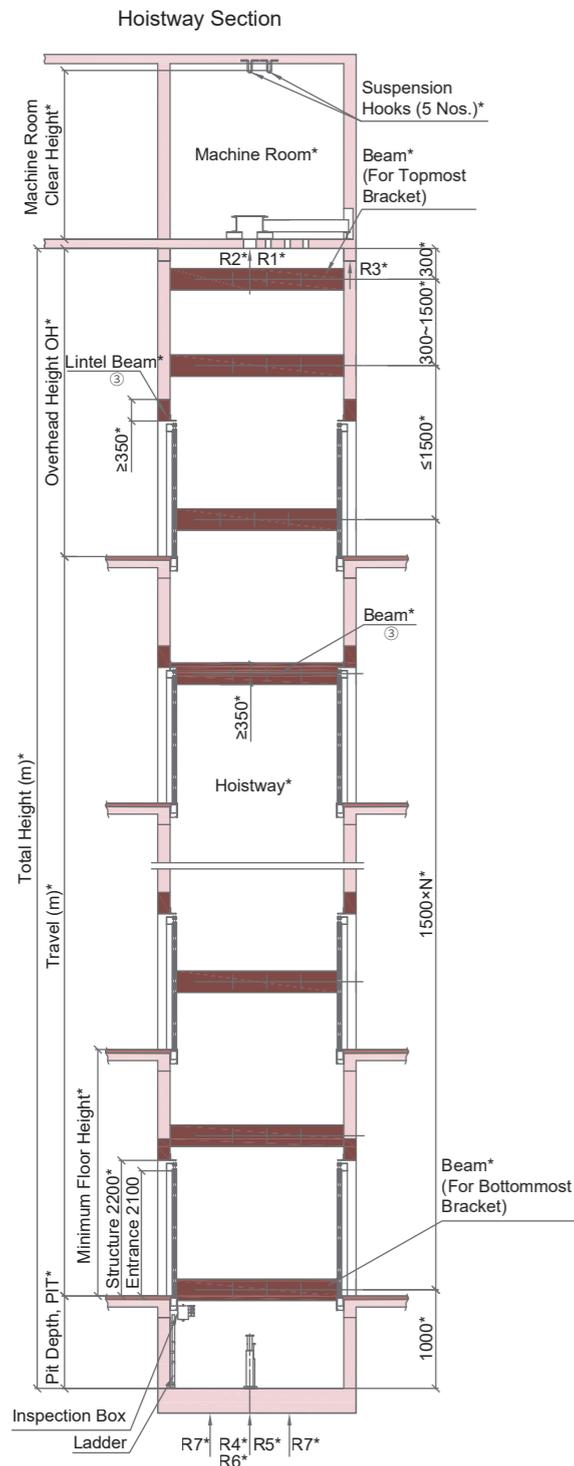
Rated Load (kg)	Rated Speed (m/min)	Overhead Height, OH (mm)	Pit Depth, PIT (mm)
4000	30	4300	1450
	45		
5000	30	4300	1450
	45		

- Note:
- ① The above information are based on GB7588-2003 standards.
  - ② Configuration is without counterweight safety gear.
  - ③ The front wall arrangement "L1" and "L2" are based on left side counterweight layout.
  - ④ Configuration is based on decoration weight provision up to 900kg.
  - ⑤ The overhead height, OH is based on bare ceiling height of 2200mm.
  - ⑥ The pit depth, PIT is based on standard checkered steel plate finish without floor recess.

# Hoistway and Machine Room (Side Opening)

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 The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforce concrete wall. For 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.
  - ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hooks Capacity (Tons)
4000	30/45	2500	6
5000	30/45	2500	6

# Hoistway and Machine Room (Side Opening)

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 (a×b)	Car Outside (A×B)	Type	Width OP	L1	L2			R1	R2	R3	R4	R5	R6	R7
4000 (Double Opening)	30	2400×3000	2450×3282	2S-2P	1800	1370	480	3850×3610	3850×3610	225	135	50	420	360	120	6
	45	2400×3000	2450×3282	2S-2P	1800	1370	480	3850×3610	3850×3610	225	135	50	420	360	120	6
5000 (Double Opening)	30	2400×3600	2450×3882	2S-2P	1800	1370	480	3850×4210	3850×4210	250	150	50	480	390	140	6
	45	2400×3600	2450×3882	2S-2P	1800	1370	480	3850×4210	3850×4210	250	150	50	480	390	140	6

Rated Load (kg)	Rated Speed (m/min)	Overhead Height, OH (mm)	Pit Depth, PIT ⑦ (mm)
4000	30	4300	1450/1820
	45		
5000	30	4300	1450/1820
	45		

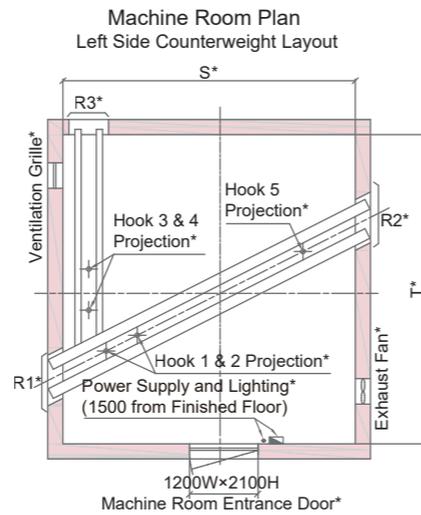
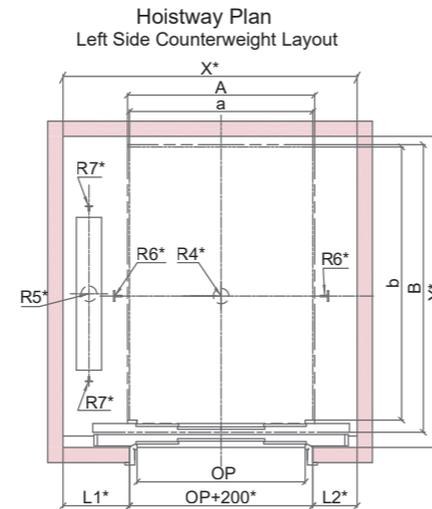
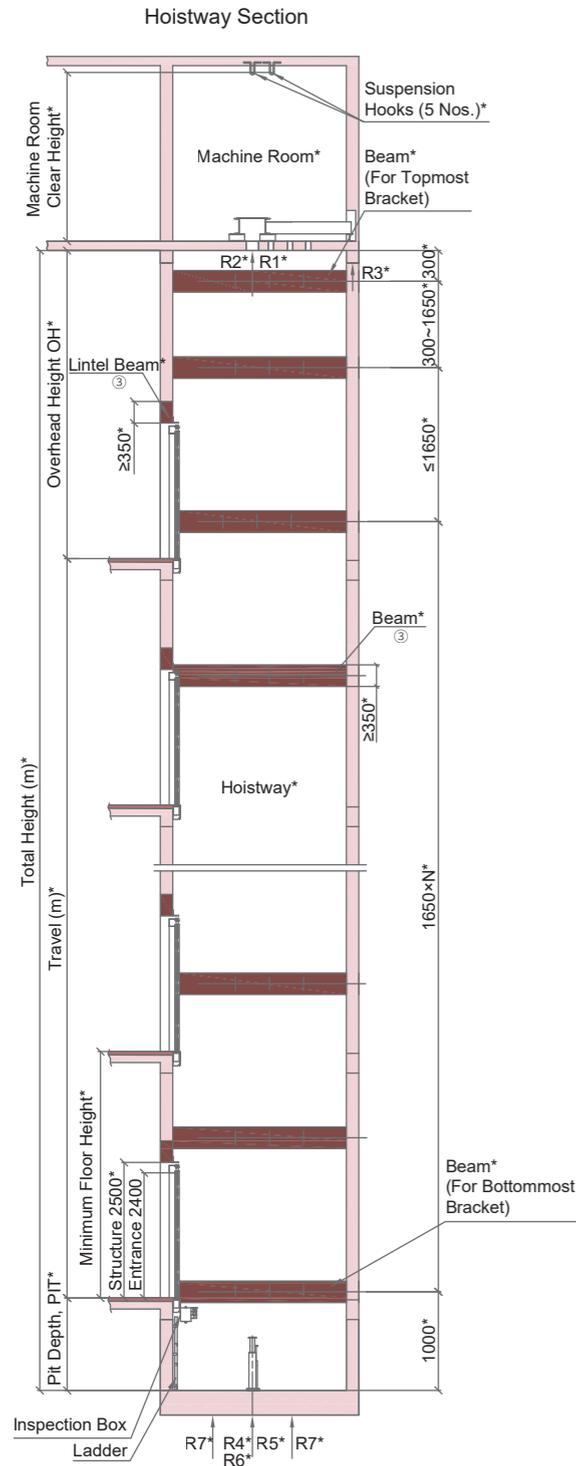
- Note:
- ① The above information are based on GB7588-2003 standards.
  - ② Configuration is without counterweight safety gear.
  - ③ The front wall arrangement "L1" and "L2" are based on left side counterweight layout.
  - ④ Configuration is based on decoration weight provision up to 600kg.
  - ⑤ The overhead height, OH is based on bare ceiling height of 2200mm.
  - ⑥ The pit depth, PIT is based on standard checkered steel plate finish without floor recess.
  - ⑦ When there is front/rear entrance on the lowest floor and there is no openings on the same side at other floors, pit depth shall be 1820mm. Otherwise, pit depth shall be 1450mm.

# Hoistway and Machine Room (4 Panels Center Opening)

# Hoistway and Machine Room (4 Panels Center Opening)

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 The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforce concrete wall. For 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.
  - ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hooks Capacity (Tons)
4000	30/45	2500	6
5000	30/45	2500	6

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 (a×b)	Car Outside (A×B)	Type	Width OP	L1	L2			R1	R2	R3	R4	R5	R6	R7
4000 (Single Opening)	30	2400×3000	2450×3176	4P-CO	2200	870	580	3850×3430	3850×3430	225	135	50	420	360	120	6
	45	2400×3000	2450×3176	4P-CO	2200	870	580	3850×3430	3850×3430	225	135	50	420	360	120	6
5000 (Single Opening)	30	2400×3600	2450×3776	4P-CO	2200	870	580	3850×4030	3850×4030	250	150	50	480	390	140	6
	45	2400×3600	2450×3776	4P-CO	2200	870	580	3850×4030	3850×4030	250	150	50	480	390	140	6

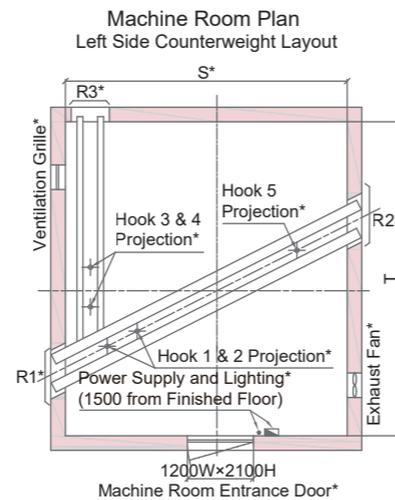
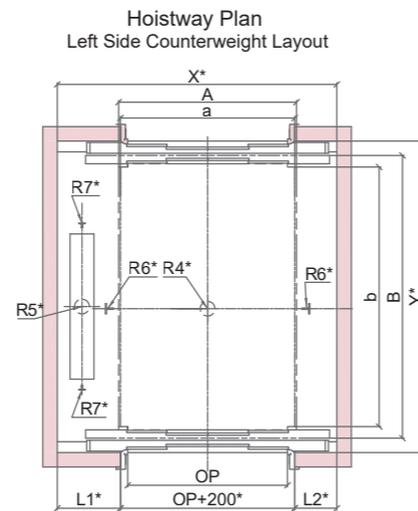
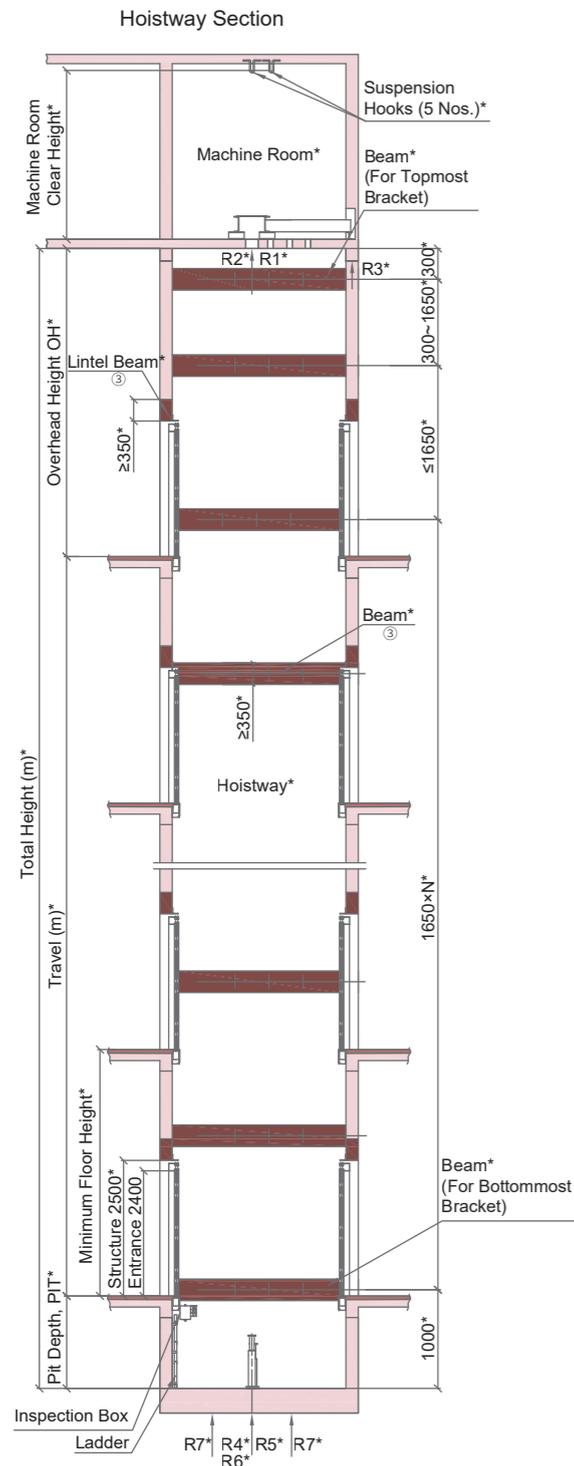
Rated Load (kg)	Rated Speed (m/min)	Overhead Height, OH (mm)	Pit Depth, PIT (mm)
4000	30	4300	1450
	45		
5000	30	4300	1450
	45		

- Note:
- ① The above information are based on GB7588-2003 standards.
  - ② Configuration is without counterweight safety gear.
  - ③ The front wall arrangement "L1" and "L2" are based on left side counterweight layout.
  - ④ Configuration is based on decoration weight provision up to 800kg.
  - ⑤ The overhead height, OH is based on bare ceiling height of 2400mm.
  - ⑥ The pit depth, PIT is based on standard checkered steel plate finish without floor recess.

# Hoistway and Machine Room (4 Panels Center Opening)

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 The hoistway construction shall be reinforced concrete ring beam with strength C25 or whole hoistway of reinforce concrete wall. For 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.
  - ⑥ The suspension hooks capacity shall be as follows:

Rated Load (kg)	Rated Speed (m/min)	Machine Room Clear Height (mm)	Suspension Hooks Capacity (Tons)
4000	30/45	2500	6
5000	30/45	2500	6

# Hoistway and Machine Room (4 Panels Center Opening)

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 (a*b)	Car Outside (A*B)	Type	Width OP	L1	L2			R1	R2	R3	R4	R5	R6	R7
4000 (Double Opening)	30	2400*3000	2450*3282	4P-CO	2200	870	580	3850*3610	3850*3610	225	135	50	420	360	120	6
	45	2400*3000	2450*3282	4P-CO	2200	870	580	3850*3610	3850*3610	225	135	50	420	360	120	6
5000 (Double Opening)	30	2400*3600	2450*3882	4P-CO	2200	870	580	3850*4210	3850*4210	250	150	50	480	390	140	6
	45	2400*3600	2450*3882	4P-CO	2200	870	580	3850*4210	3850*4210	250	150	50	480	390	140	6

Rated Load (kg)	Rated Speed (m/min)	Overhead Height, OH (mm)	Pit Depth, PIT ⑦ (mm)
4000	30	4300	1450/1820
	45		
5000	30	4300	1450/1820
	45		

Note:

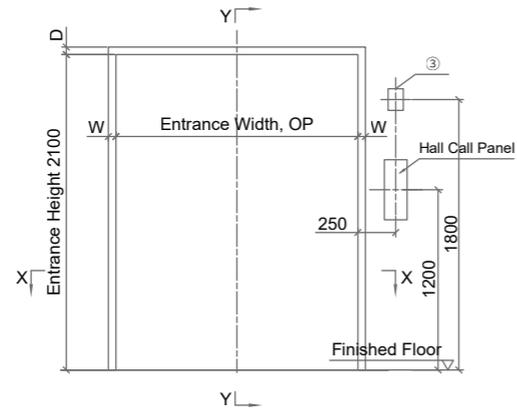
- ① The above information are based on GB7588-2003 standards.
- ② Configuration is without counterweight safety gear.
- ③ The front wall arrangement "L1" and "L2" are based on left side counterweight layout.
- ④ Configuration is based on decoration weight provision up to 500kg.
- ⑤ The overhead height, OH is based on bare ceiling height of 2400mm.
- ⑥ The pit depth, PIT is based on standard checkered steel plate finish without floor recess.
- ⑦ When there is front/rear entrance on the lowest floor and there is no openings on the same side at other floors, pit depth shall be 1820mm. Otherwise, pit depth shall be 1450mm.

# Entrance Design (Side Opening)

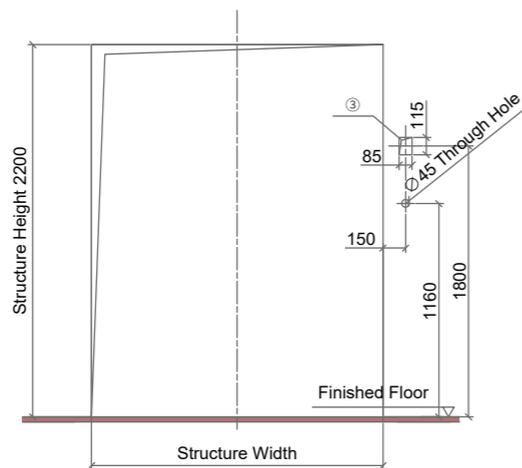
The followings shall be furnished by building contractors:

■ Wall And Floor Finishes

## Elevation Of Entrance



## Structure Opening Of Entrance



Type	AS-1X	SS-1X
W	10	30
D	10	50

- Note:
- ① The above information are based on GB7588-2003 standards.
  - ② Unit of dimension shall be in mm unless otherwise stated.
  - ③ Applicable only when fireman operation with switch is located at lift landing.
  - ④ Structure opening of entrance shall be furnished by building contractor.

# Entrance Design (Side Opening)

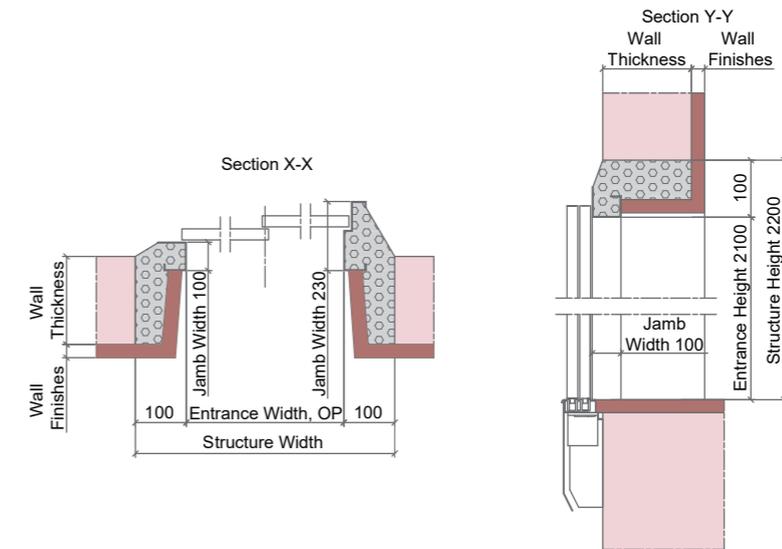
The followings shall be furnished by building contractors:

■ Building Structure

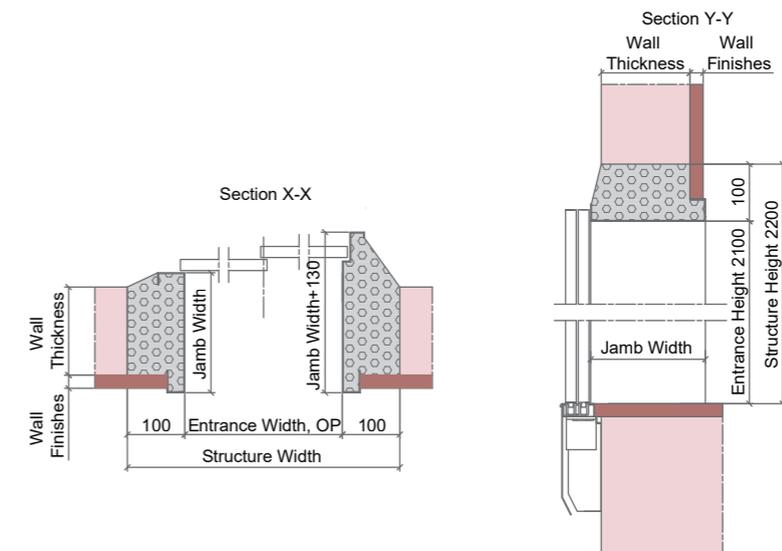
■ Wall And Floor Finishes

■ Grouting Work

## Narrow Jamb (AS-1X)



## Wide Jamb (SS-1X)



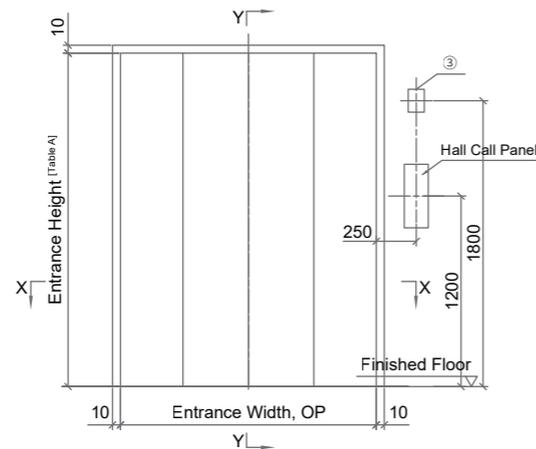
- Note:
- ① Unit of dimension shall be in mm unless otherwise stated.

# Entrance Design (4 Panels Center Opening)

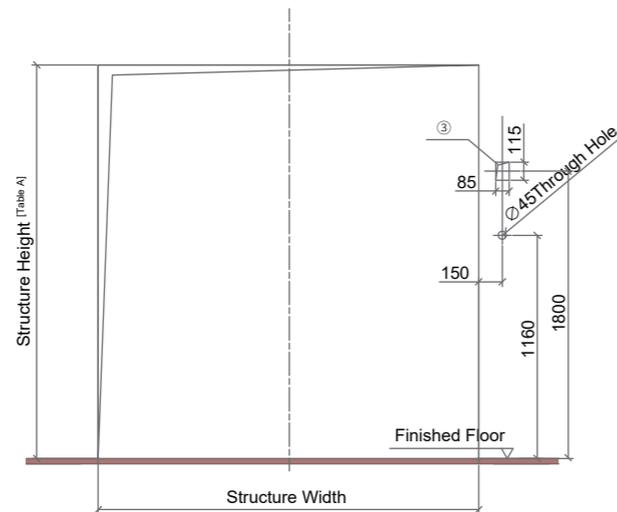
The followings shall be furnished by building contractors:

■ Wall And Floor Finishes

## Elevation Of Entrance



## Structure Opening Of Entrance



[Table A]

Rated Load (kg)	Entrance Height	Structure Height
1600/2000/3000	2100	2200
4000/5000	2400	2500

Note:

- ① The above information are based on GB7588-2003 standards.
- ② Unit of dimension shall be in mm unless otherwise stated.
- ③ Applicable only when fireman operation with switch is located at lift landing.
- ④ Structure opening of entrance shall be furnished by building contractor.

# Entrance Design (4 Panels Center Opening)

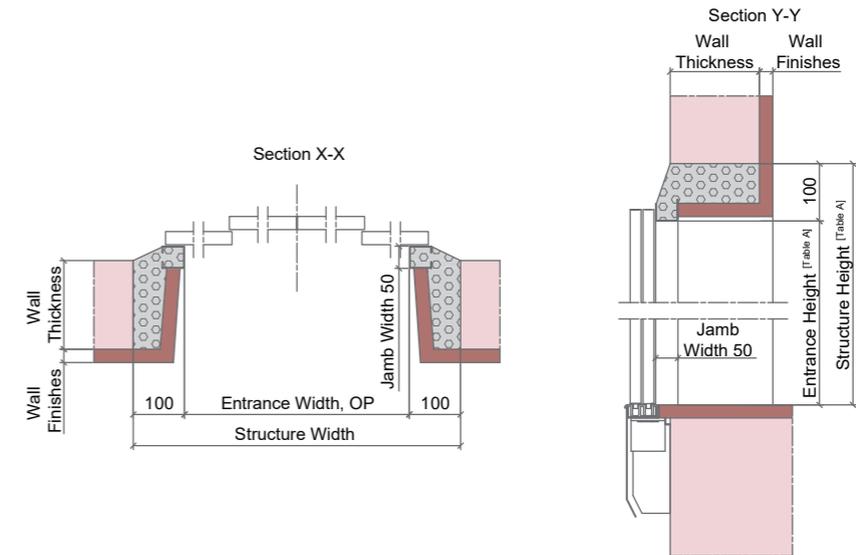
The followings shall be furnished by building contractors:

■ Building Structure

■ Wall And Floor Finishes

■ Grouting Work

## Narrow Jamb (AS-1X)



[Table A]

Rated Load (kg)	Entrance Height	Structure Height
1600/2000/3000	2100	2200
4000/5000	2400	2500

Note:

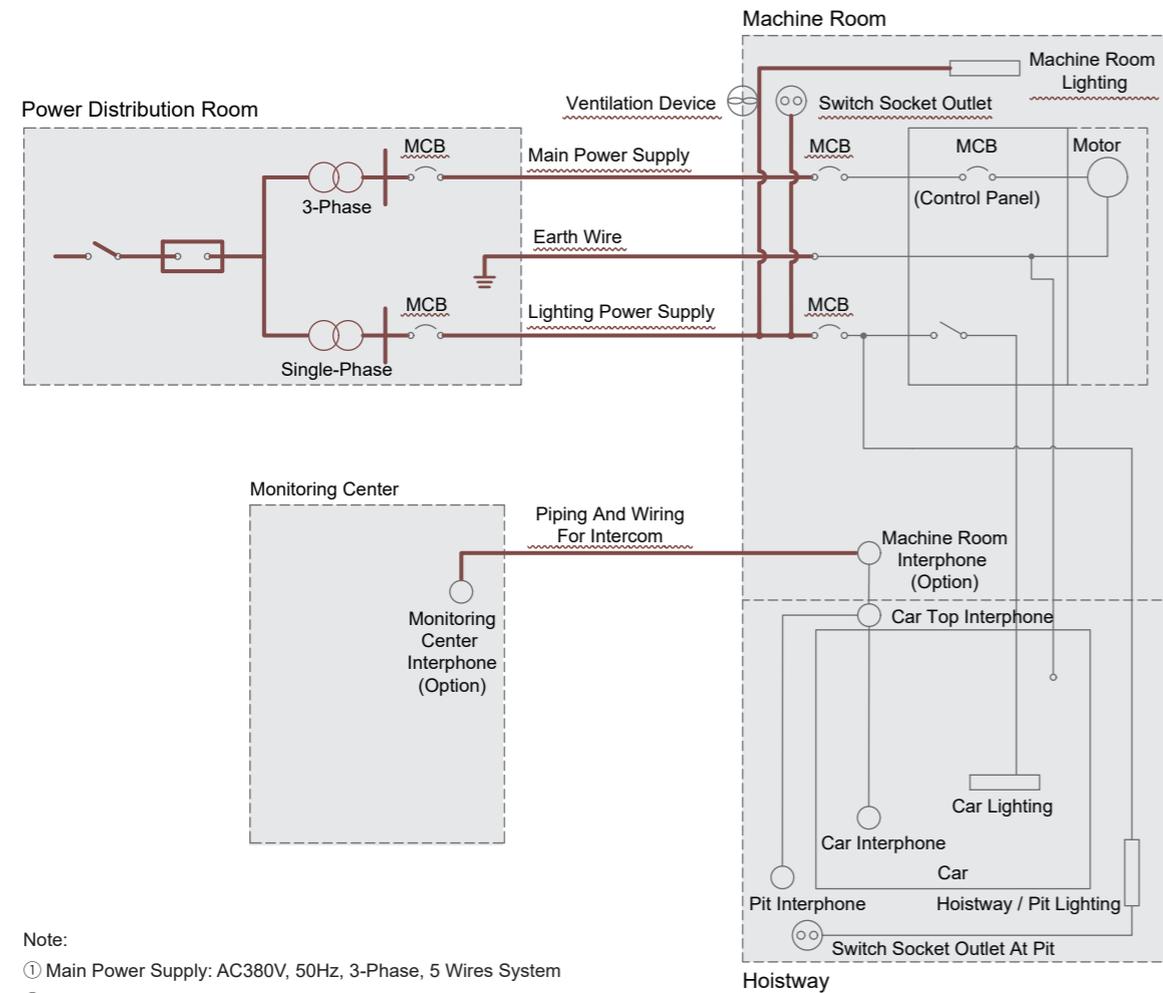
- ① Unit of dimension shall be in mm unless otherwise stated.

# Electrical Information

The following shall be furnished by building contractors:

~~~~~ Electrical Equipment

— Cable



Note:

- ① Main Power Supply: AC380V, 50Hz, 3-Phase, 5 Wires System
- ② Lighting Power Supply: AC220V, 50Hz, Single-Phase, 3 Wires System

# Electrical Data

| S/No. | Rated Load (kg) | Rated Speed (kg) | 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     | 1600            | 30               | 3Φ380V<br>1Φ220V<br>50Hz | 40                           | 40      | 8                          | 13      | 8                                       | 10      | 8                                  | 10      |
|       |                 | 60               |                          | 40                           | 50      | 16                         | 20      | 16                                      | 25      | 16                                 | 16      |
| 2     | 2000            | 30               |                          | 40                           | 40      | 8                          | 16      | 8                                       | 16      | 8                                  | 16      |
|       |                 | 60               |                          | 50                           | 60      | 16                         | 25      | 16                                      | 30      | 16                                 | 16      |
| 3     | 3000            | 30               |                          | 40                           | 50      | 16                         | 20      | 10                                      | 25      | 10                                 | 16      |
|       |                 | 60               |                          | 60                           | 100     | 25                         | 40      | 25                                      | 35      | 16                                 | 16      |
| 4     | 4000            | 30               |                          | 50                           | 60      | 16                         | 25      | 16                                      | 25      | 16                                 | 16      |
|       |                 | 45               |                          | 60                           | 100     | 25                         | 40      | 25                                      | 35      | 16                                 | 16      |
| 5     | 5000            | 30               |                          | 60                           | 75      | 20                         | 32      | 25                                      | 30      | 16                                 | 16      |
|       |                 | 45               |                          | 75                           | 100     | 30                         | 50      | 30                                      | 50      | 16                                 | 25      |

Notes:

- 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 machine room calorific value (kcal/hr) for one elevator is calculated using the following formula:  
Machine Room Calorific Value (kcal/hr) = Rated Load (kg) x Rated Speed (m/min) x [1 / 45]

| Item                                           | Works to be provided by building contractor                                                                                                                                |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main Power Supply                              | To provide the main power supply switch around the entrance of the machine room. To install facilities to ensure the 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 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.               |



