

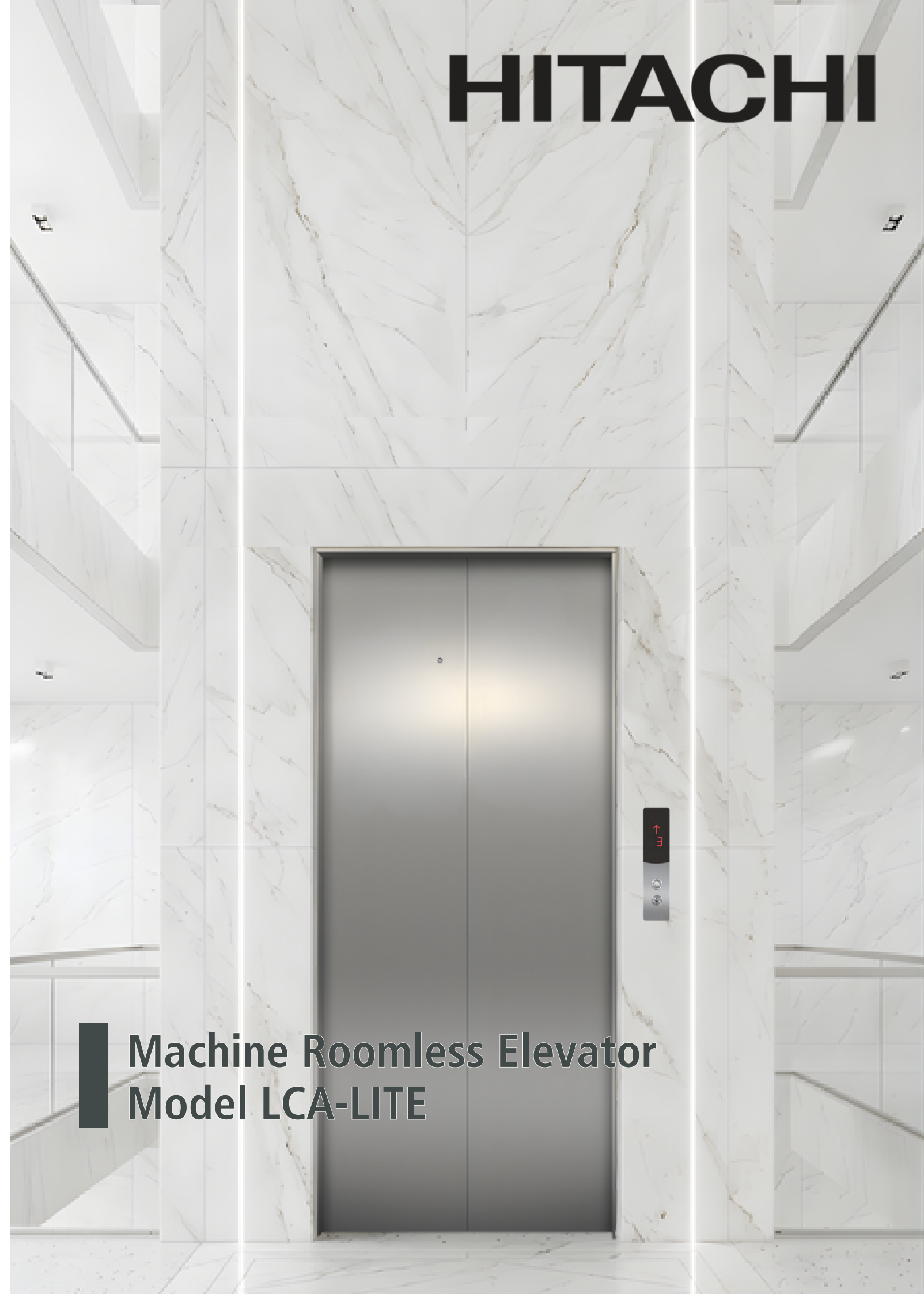
HITACHI

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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LCA-LITE 2026.03

HITACHI

Machine Roomless Elevator Model LCA-LITE



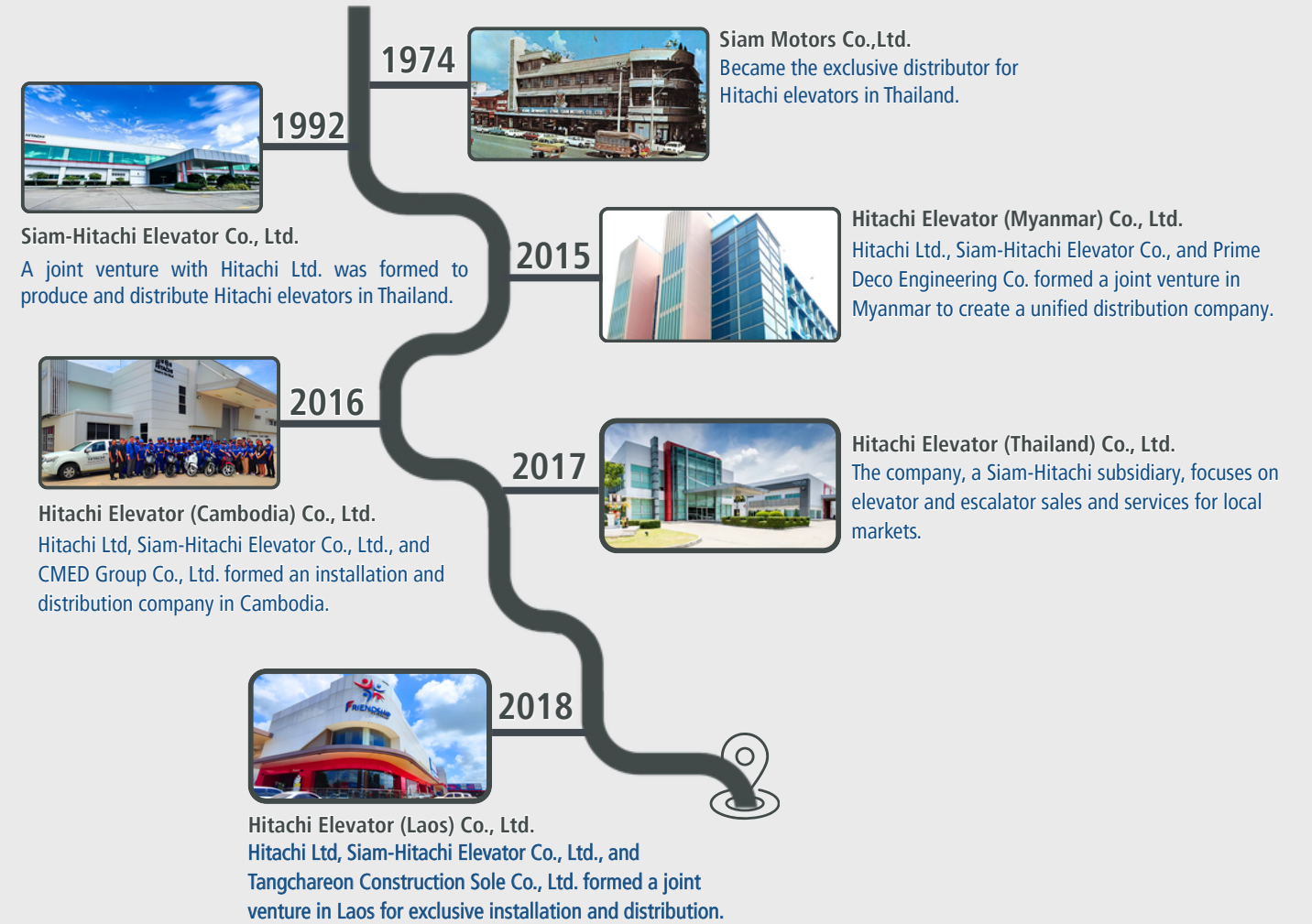
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Company History

Siam-Hitachi Elevator



Mission

Contribute to society through the development of superior, original technology and products.

Vision

Hitachi delivers innovations that answer society's challenges. With our talented team and proven experience in global markets, we can inspire the world.

Core value

Hitachi founding: Harmony, Sincerity, Pioneering Spirit

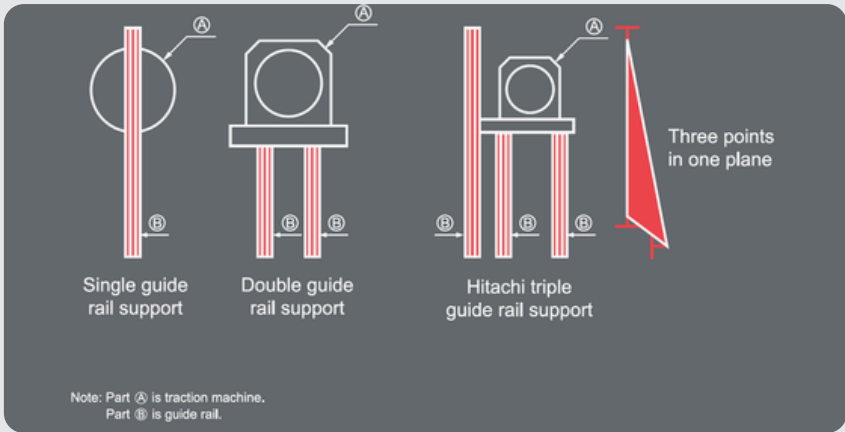
Certificates & Awards



Self-Supporting Structure and Anti-Quake Design

01 Self-Supporting Traction Machine

The traction machine is supported by three guide rails directly at the top of the hoist way. It is not necessary for the building contractor to reserve support beams or installation openings in the Hoistway walls.



02 Anti-Quake Design

The traction machine is equipped with an anti-toppling device which can prevent the traction machine from falling in case of an earthquake. In addition, the anti-dropout design is also adopted for the counterweight and car frame. These designs reduce the impact of an earthquake and protect the passengers.

Traction Machine Safety and Comfort

01 High Braking Torque

- The tractive capacity is designed to Hitachi standards which exceeds the industry standards to ensure that the elevator runs more reliably;
- The braking torque is designed to Hitachi standards which is significantly higher than industry standards to ensure maximum safety and reliability;
- The brake is subject to rigorous testing conducted by Hitachi to ensure safety, reliability and high performance for long-term operation.

02 Motor Temperature Rise Control

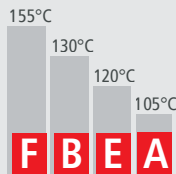
The temperature of the motor rises at a slower rate as compared to other permanent magnet synchronous motors available in the market, through Hitachi temperature control technology. Lifespan of the motor can be extended by reducing the common risks of malfunction caused by overheating motors.

03 Riding Comfort

The effects of the vibration from the motor and guide rail is stabilized through the highly efficient dampers for the traction machine to provide a comfortable riding experience for the passengers.

04 Class-F Insulation of Motor

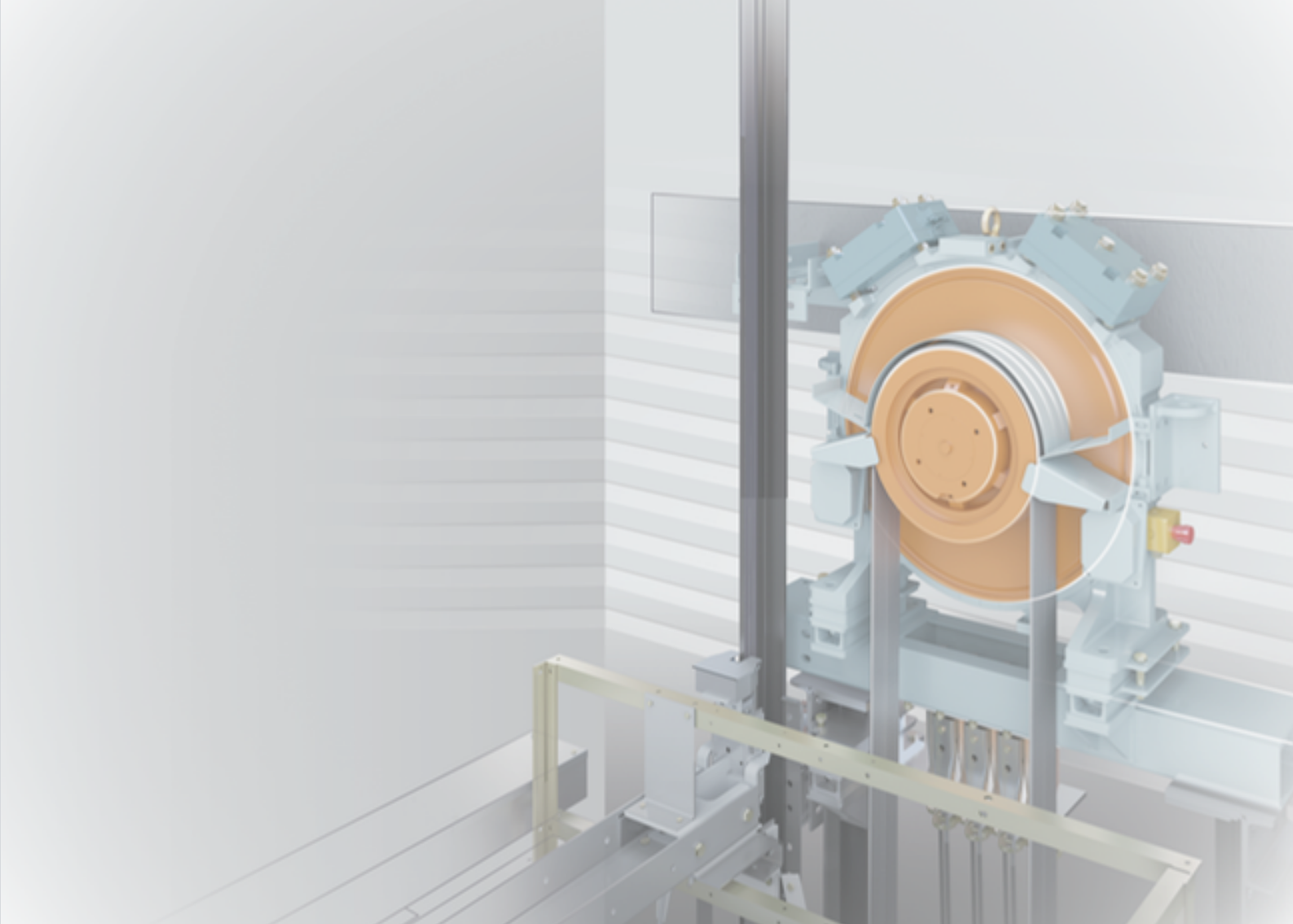
The motor is designed with industry leading heat-resistant technology which can withstand extremely high temperature of up to 155°C. It is classified as Class-F, the highest rating of insulation in the industry.



05 Minimal Motor Torque Pulsation

The low torque ripple of the motor enhances ride quality.

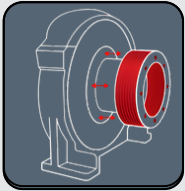
Note: The "industry standards" mentioned above refers to GB standards.



Representative Patent Design

01 Separable Traction Sheave Design

The unique separable traction rope sheave design reduces the maintenance labour time and maintenance cost of motor.

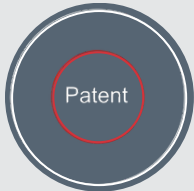


02 Higher Rotation Accuracy

The traction machine of LCA elevator adopts taper roller bearings characterized by increased bearing capacity, longer lifespan and higher rotation accuracy. With the taper roller bearings, the rope-groove vibration is restricted to 1/3 of the value specified by the industry standards, enhancing the riding comfort of the elevator.

03 Magnet Steels Dropout-Proofing Patent of the Motor

As compared with conventional practice to fix magnet steel with adhesion agent, the patented holding-down mechanism designed by Hitachi secures the magnet steels onto the rotor, avoiding dropout of magnet steel caused by failure of the adhesion agent.



Note: The "industry standard" mentioned above refers to standards.

01 Intelligent Multi-Beam Protection

- Auto energy-saving

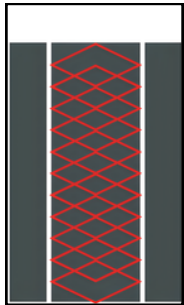
It can judge whether the elevator is unoccupied. When the elevator is unoccupied, the multi-beam will be powered off so as to reduce the energy consumption and extend the lifespan of multi-beam.

- Auto detection

It can judge the specific location of multi-beam malfunction and provide reference for quick rectification.

- Automatic shielding

If a single point of the multi-beam is obstructed or damaged, the system will shield the bad point, record the fault and then close the door normally on the premise of safety.



02 High-Performance Processor

High-performance processor (32-bit DSP) serves as kernel control in LCA-LITE elevator. The four-layer control board is provided with high interference eliminating features and the highly integrated module technology is adopted in the control system. These features completely improve the response speed and reliability of the control system.



Note: 32-bit DSP processor

03 The Latest IPM Module Based on SVPWM

Double closed-loop vector (current and speed) control method which is based on SVPWM tuning control technology and vector control algorithm, is adopted. The latest IPM module serves as the inverter power module. As a result, door opening/closing operations are smooth and with low noise.



04 Intelligent Features

- Door-width self-learning

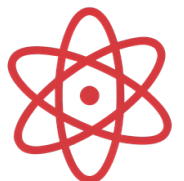
The system can learn the specification and adjust the door opening and dosing curve according to the door width data collected automatically. The data is saved in the EEPROM and the data is still saved after power off.

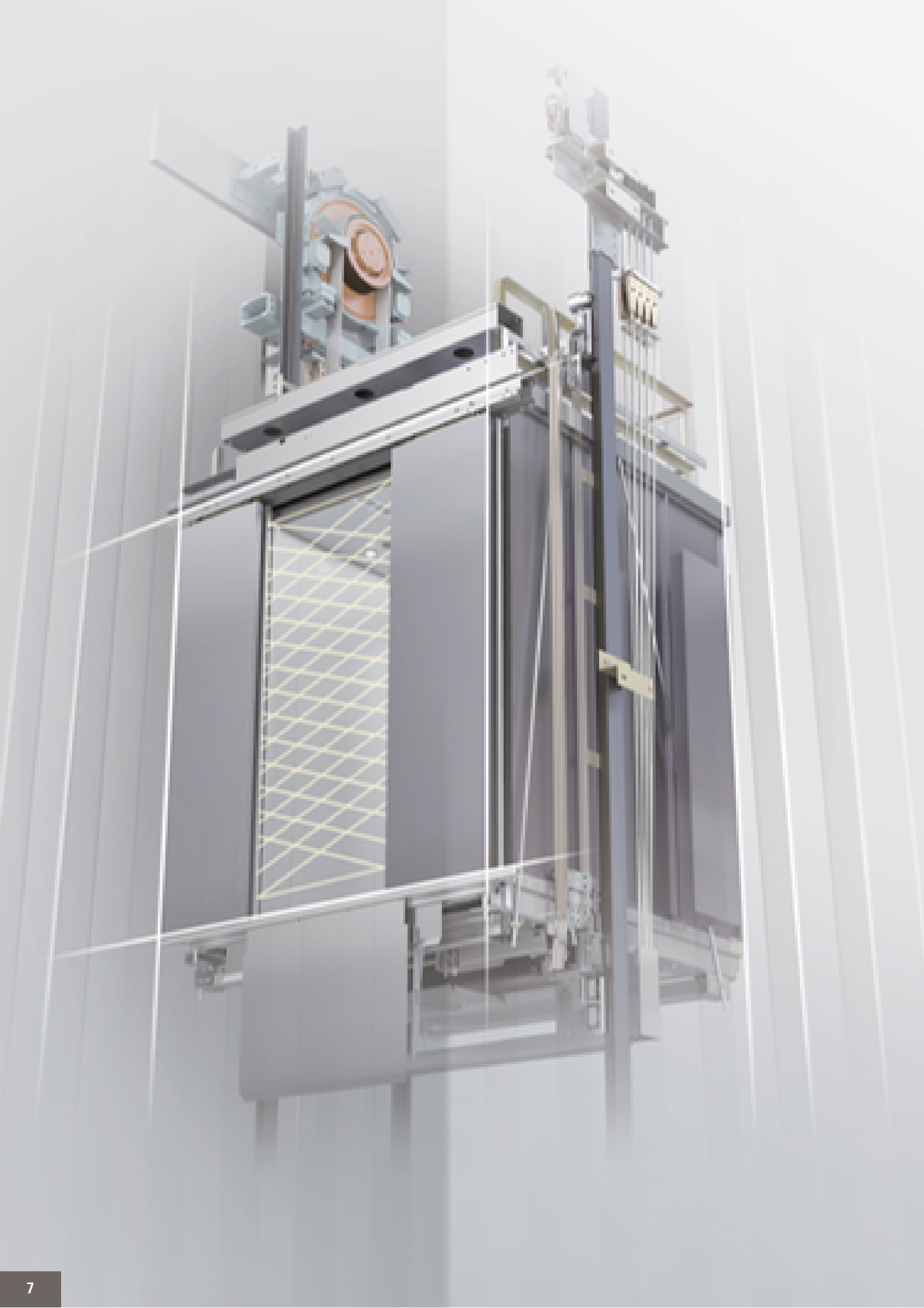
- Door-weight self-adaption

The system can adjust different door-weight at each floor within standard.

- Malfunction self-detection and self-protection

The system can judge when there is a breakdown and stops the elevator as needed.

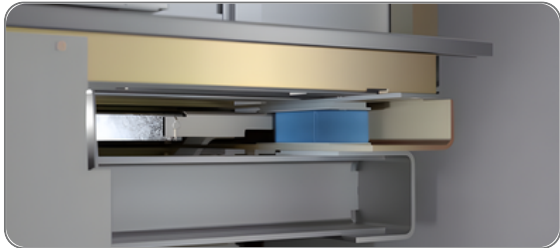




Innovative and Eco-Friendly Technology

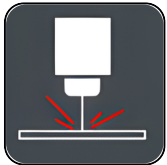
01 Non-welded Car Frame and Double-layer Car Platform

- Non-welded car frame
Non-welded car frame requires no manual welding on site and helps reduce the environmental pollution, improve the strength of car frame and achieve a higher safety and reliability rating.
- Double-layer car platform
Double-layer car platform is characterized by vibration-proof materials are set between the car platform and the car platform frame. The elevator with double-layer car platform will travel much more smoothly and comfortably than other elevator with single-layer car platform through isolating the vibration of the car platform frame from the car platform.



02 Laser Cutting Technology

Laser cutting technology is applied in Hitachi elevator. In comparison with other standard methods, laser cutting technology significantly enhances the product cutting quality and accuracy. Laser cutting also benefits with lower carbon footprints.



Humanised Design

We strive to take a human-oriented approach to delivering a more comfortable riding experience for the passengers and making our products more suitable for the buildings.

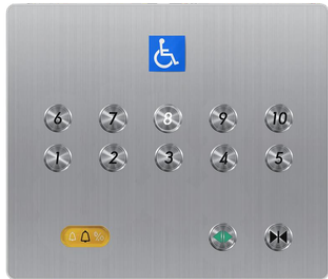
01 Eco-Friendly LED Lighting Design

The use of LED helps to create a cozy atmosphere for the passengers, with its DC powered, flicker-free, energy efficiency features.



02 Horizontal Car Operating Panel [Option]

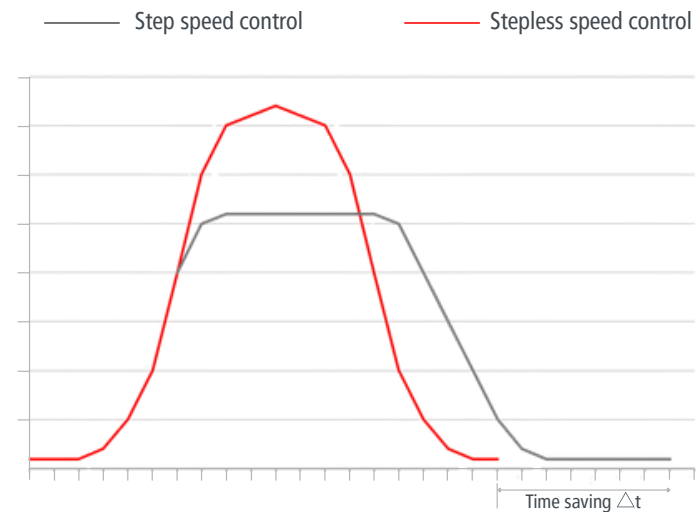
Horizontal car operating panel is available to provide the passengers with an easy elevator-taking environment.



High Efficiency

01 Stepless Speed Control

Hitachi elevator has been adopting step-less speed control for many years. With Hitachi's highly efficient control system, the precise optimum travelling speed curve can be directly calculated by the output according to the distance from the car location to the destination.



Industrial-Leading Technology

01 Reliable High-frequency Impulse Voltage Transformer Communication

Hitachi elevator adopts high-frequency impulse voltage transformer serial communication technology exclusively. It's mainly applied in some special industries such as telecommunication and military communication due to its stronger resistance to interference and higher velocity.

Content	Hitachi standard
Communication mode	High-frequency impulse voltage transformer
Reliability	High
Resistance to interference	Strong
Max. Speed	125kb (increase by 25%)

02 Advanced Control System

- Multi-processor, Smaller size, Higher integration level
- Higher running speed and outstanding processing capacity improve the efficiency and energy conservation effect.



Note : 32 bit processor

03 High Precision Digitized Starting Torque Compensation

The high precision load transducer can accurately calculate the load of the car so that the traction machine is able to compensate the startup torque precisely and achieve a more comfortable start.



This image is for the illustrative purposes only



CAR DESIGN

With the ongoing commitment to improve the product, the car has been more smooth-running and elegant.

This image is for the illustrative purposes only

Car Design (Normal Car)

Items	Specifications
Bare Ceiling height	2350 mm.
Car ceiling	BS-11A Stainless Steel Hairline + Milky white acrylic
Car front return panel	Stainless Steel Hairline
Car transom	Stainless Steel Hairline
Side walls	Stainless Steel Hairline
Rear walls	Stainless Steel Hairline
Car door	Stainless Steel Hairline
Car operating panel	OPM-322 (At Front Wall) (Display: Segment Display)
Car floor	A-26 (Vinyl Tile)



DECORATION DEVICE

Dedicated to elevating elevator interiors with total design solutions. We blend striking aesthetics with durability to enhance passenger comfort and reflect a unique identity in every detail

Ceiling

Ceiling (With Car Top Emergency Exit)



BS-11A ① **Standard**
Center : Milky white acrylic ②
Surrounding : Stainless steel hairline (SUS430)



RF-013A **Optional**
Stainless steel hairline (SUS430)

Ceiling (Without Car Top Emergency Exit)



BS-11 ① **Optional**
Center : Milky white acrylic ②
Surrounding : Stainless steel hairline (SUS430)



RF-013 **Optional**
Stainless steel hairline (SUS430)

Note:

- ① The ceiling is not compliant with EN81-20/50 and SS550. In case of EN81-20/50, it can be used if the customer agrees.
- ② The ceiling profile may varies with different car size.
- ③ Details, please contact us.

Car Operation Panel

Front wall



OPM-322 Standard

- Indicator : Segment Display
- Button : WL-MWB (with braille)

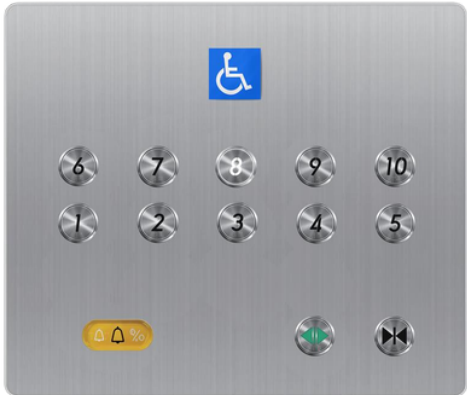
Side wall



GOP-198 Standard

- Indicator : Segment Display
- Button : WL-MWB (with braille)

Horizontal type



GOPC-510 Optional

- Button : WL-MWB (with braille)
- Material : Faceplate in stainless steel hairline



This image is for the illustrative purposes only

Hall Operation Panel

With indicator



VIB-322/ VIB-322W Standard

- (Surface-mount type)
- Indicator : Segment Display
 - Button : WL-MWB (with braille)

VIB-723-IP Optional

- *For Top Floor Only (Embedded type)
- Indicator : Segment Display
 - Button : WL-MWB (with braille)

Without indicator



HSB-322 / HSB-322W Optional

- Button : WL-MWB (with braille)

Wheelchair hall button



HBC-322 Optional

- Button : WL-MWB (with braille)

Hall Lantern

Optional

Vertical type

GHL-820

- Surface mounted type



Horizontal type



GHL-820

- Surface mounted type

Button

WL-MWB

Standard

- **Dimension :**
Φ 36mm
- **Material :**
Rim in stainless steel brush, faceplate in stainless steel hairline
- **Illumination :**
Symbol and periphery lighted up in white
- **Braille :**
Available as for maximum 2 digits

"Door Open" Button
(Without illumination)



"Door Close" Button
(Without illumination)



"Floor" Button
(Without illumination)



"Floor" Button
(With illumination)



WL-MO

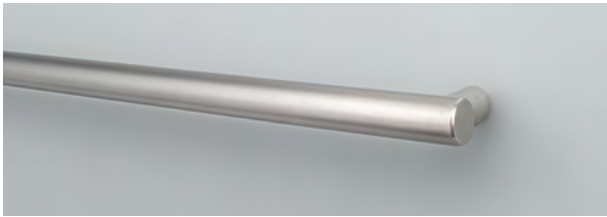
Optional

- **Dimension :**
Φ 36mm
- **Material :**
Rim in stainless steel brush, faceplate in stainless steel hairline
- **Illumination :**
Symbol and periphery lighted up in orange
- **Braille :**
Available as for maximum 2 digits



Optional

Handrail



Round pipe type
(Hairline stainless steel) Diameter : 32 mm



Car Flooring

Standard



A-26

Optional



S-033



S-048

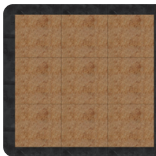


FL-P008

*The image above represents the whole floor area in the elevator car.



S-693



FL-P009

*The image above represents the whole floor area in the elevator car.



Entrance

Item	Specification
Jamb frame	AS-1X narrow type
Standard	Hairline stainless steel (SUS430)
Optional	Hairline stainless steel (SUS304) Painted steel (IPP)
Door panel	Opening (2PCO/2S2P)
Standard	Hairline stainless steel (SUS430) Hairline stainless steel (SUS304)
Optional	Painted steel (IPP) Glass door (One side) (Wheelchair) ① ②
Door sill	Extruded hard aluminum

Note : ① For glass doors, the side with the glass panel is always the side with the key guide assy.
② Glass doors is not compliant with EN81-20/50 . In case of EN81-20/50, it can be used if the customer agrees.



Stainless steel

Standard



Hairline SUS430

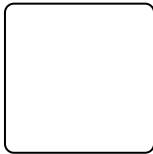
Optional



Hairline SUS304

Painted steel (IPP)

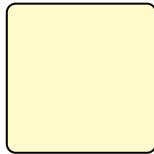
Optional



FF110/09/C



FF110/703/C



FF110/919/C



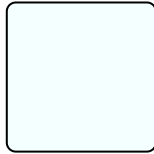
FF110/948/C



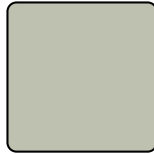
FF110/831/C



FF110/601/C



FF110/22/C



PR26/8235/C



Decoration and Entrance

Car Decoration

Items	Specifications	☒ Standard	☐ Options
Ceiling type	With car top emergency exit : BS-11A	☒	
	Without car top emergency exit : BS-11, RF-013		☐
	With car top emergency exit : RF-013A		☐
Car Door	Stainless steel hairline (SUS430)	☒	
	Stainless steel hairline (SUS304)		☐
	Painted steel (IPP)		☐
	Glass door (One side) (Wheelchair) ^{①②}		☐
Transom/3 Side walls/ Front return wall	Stainless steel hairline (SUS430)	☒	
	Stainless steel hairline (SUS304)		☐
	Painted steel (IPP)		☐
Kickplate	Stainless steel hairline (SUS430)	☒	
Car Sill	Extruded hard aluminum	☒	
Car floor	Vinyl tile : A-26		☐
	Vinyl tile : S-033, S-048, S-693, FL-P008, FL-P009		☐
	Floor recess (20mm / 25mm / 30mm), Finishes by Others		☐
Handrail	Round pipe type (Stainless steel hairline) Diameter : 32 mm.		☐
Car operating panel (At front wall)	OPM-322, Indicator: Segment display, Surface: Stainless steel hairline	☒	
Car operating panel (At side wall)	GOP-198, Indicator: Segment display, Surface: Stainless steel hairline	☒	
	GOPC-510, Surface: Stainless steel hairline		☐

Note : ① For glass doors, the side with the glass panel is always the side with the key guide assy.
② Glass doors is not compliant with EN81-20/50 . In case of EN81-20/50 , it can be used if the customer agrees.

Entrance

Items	Specifications	☒ Standard	☐ Options
Jamb type	AS-1X, Jamb width=50mm	☒	
Jamb finish	Stainless steel hairline (SUS430)	☒	
	Stainless steel hairline (SUS304)		☐
	Painted steel (IPP)		☐
Landing door	Stainless steel hairline (SUS430)	☒	
	Stainless steel hairline (SUS304)		☐
	Painted steel (IPP)		☐
Landing sill	Extruded hard aluminum	☒	
Hall operating panel	VIB-322/VIB-322W, Indicator: Segment display (Surface-mount type)	☒	
	VIB-723-IP *For top floor only, Indicator : Segment Display (Embedded type)		☐
	HSB-322 / HSB-322W (Surface-mount type)		☐
	HBC-322 (Surface-mount type)		☐
Hall lantern	GHL-820 (Vertical) (Surface-mount type)		☐
	GHL-820 (Horizontal) (Surface-mount type)		☐

Buttons

Items	Specifications	☒ Standard	☐ Options
Buttons (with braille)	WL-MWB	☒	
	WL-MO		☐



LCA-LITE

Machine Roomless Elevator
Planning Guide

Elevator Specification List

Rated Load (kg)	Number of Passengers ①	Rated Speed (m/min)	Maximum Number of Stops	Maximum Travel (m)	Maximum Travel with Fireman Operation (m)	Minimum Floor Height (mm)
450	6	60	10 Stops	30	-	2600
630	8					
825	11					
1000	13					

Note:

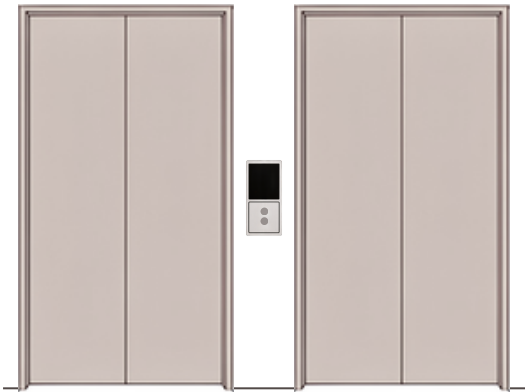
① Passenger numbers calculated at 75 kg per person.

② The above information are based on GB/T 7588-1/2-2020 standards.

Layout



Operation mode : Simplex



Operation mode : Duplex

- The control system is engineered for both Simplex and Duplex operational configurations.
- Avoid placing the elevators entrance near pillars.

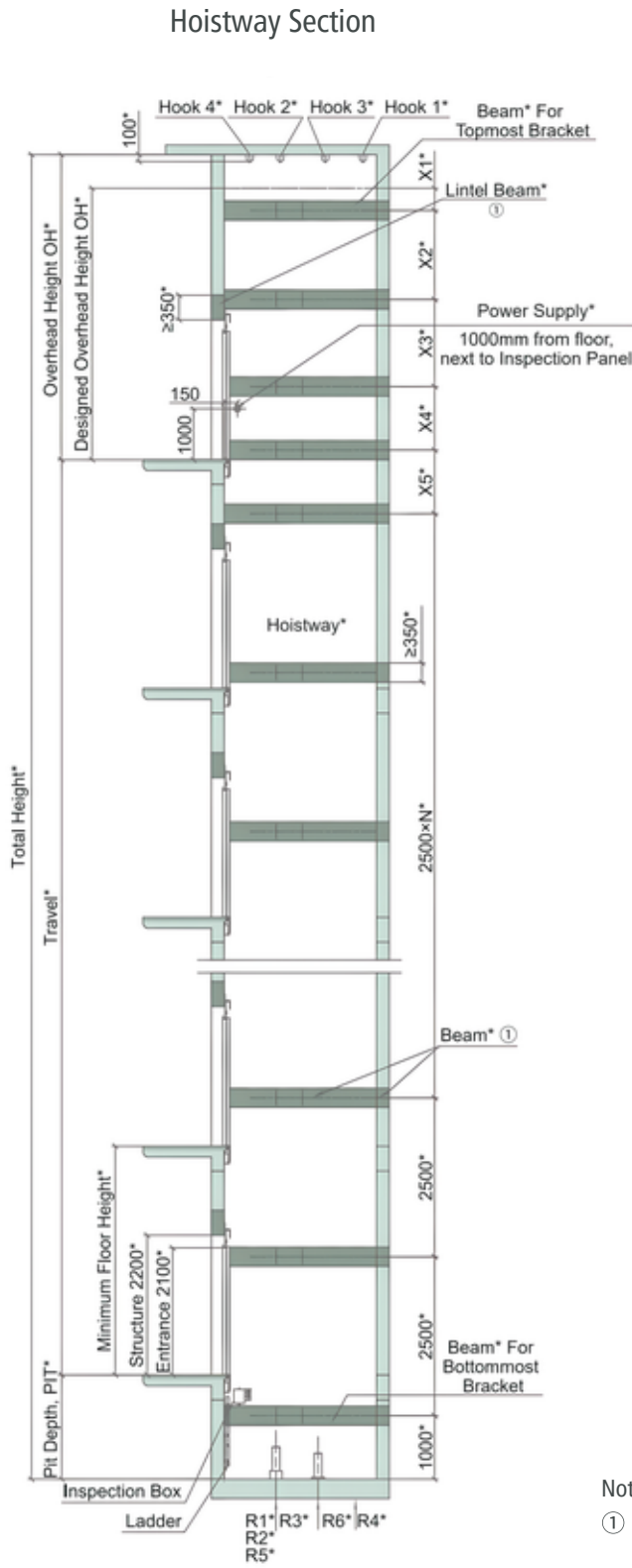
Standard Function

System Scheduling			
SS01	Selective Collective Control		
Efficiency and Energy Saving			
EE01	Mischievous Call Cancellation	EE02	Opposite Direction Car Call Cancellation
EE03	Car Light Auto Turn-off	EE04	Car Fan Auto Turn-off
EE05	Full Load Bypass Operation	EE06	Automatic Door Dwell Time Control
EE07	Automatic Door Dwell Time Adjustment	EE09	Car Call Deselect Function
EE10	Abnormal Duration Hall Call Detection	EE11	Elevator Sleep Function
EE13	High Efficient Control	EE14	Motor Energy-Saving Control Function
Comfort and Consideration			
CC01	Automatic Return Function	CC02	Start Torque Auto-Adjustment
CC03	Door-Stop Function (Maintenance)	CC04	Maintenance Indication at Hall Indicator
CC05	Current Floor Push-Button Reopening Function	CC06	Overloading Hall Call Recovery Function
CC07	Limit Illumination of Registered Car Calls	CC16	Braille Button
System Protection			
SP01	Overload Detection System	SP02	Overload Alarm
SP03	Overload Indicator (In Car)	SP04	Door Safety Return System
SP05	Next Drive (Door Open Abnormity)	SP06	Door Opening/Closing Time Abnormity Protection
SP07	Intelligent Multi-beam Protection	SP08	Rope Slipping Running Protection
SP09	Motor Overload (Thermal) Protection	SP10	Double Brake-Safety Check Operation
SP11	Standby Regular Auto-Check	SP12	Automatic Fault Detection
SP13	Automatic Fault Recording	SP14	Anti-electromagnetic Interference
SP15	Unauthorise Door Bypass Detection	SP16	Detect flat and reflat functions (SIL3)
SP17	Self Diagnosis Inverter		
Safe Communication			
SC01	Car Intercom Communication	SC02	Car Top Intercom Communication
SC03	Inspection Panel Intercom Communication	-	Hall Intercom Communication
Emergency Solution			
ES01	Overspeed Electrical Protection	ES02	Overspeed Mechanical Protection
ES03	Nearest Landing Operation	ES04	Lift Position Abnormity Auto-Correction Function
ES05	Out of Door-Open Zone Alarm	ES06	Car Emergency Lighting
ES07	Fire Emergency Operation (Automatic)	ES09	Intelligent Auxiliary Brake Function
ES10	Alarm System	ES11	Emergency Electric Operation (SIL3)
ES13	Ascending Car Overspeed Protection, ACOP Function (SIL3)	ES15	Unintented Car Movement Protection, UCMP Function (SIL3)
ES17	Emergency Terminal Stopping Device, ETSD (SIL3)		
Convenient Preventive Maintenance			
PM01	Floor Height Self Measurement	PM02	Manual Micro Levelling
PM03	On-Cage (Car Top) Maintenance Operation	PM04	In-Cage Slow Speed Operation
PM05	Synchronous Motor Magnetic Pole Test	PM06	Number of Runs Indicator
PM07	Door Bypass Detection	PM09	Balance Coefficient Self-Learning Function
PM12	Dedicated Maintenance (In-Cage) Operation		

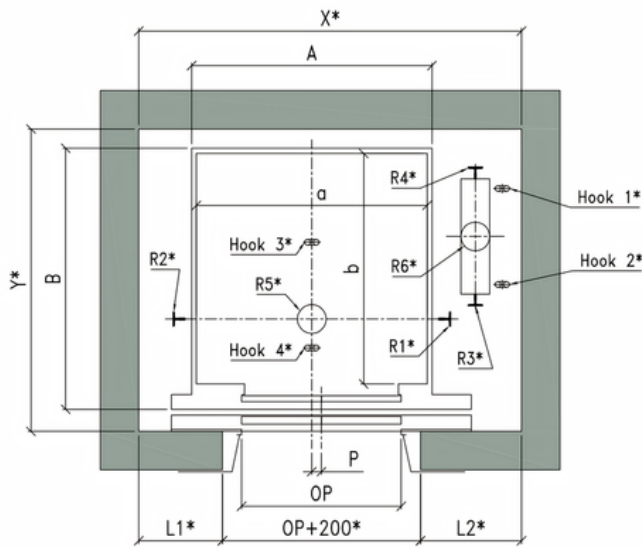
Optional Function

System Scheduling			
SS02	Duplex Collective Control		
Efficiency and Energy Saving			
EE15	Quick Door Closing Function (In Car)		
Comfort and Consideration			
CC10	Door Opening Prolong Button	CC11	Voice Synthesizer
CC12	Arrival Chime (Car Top & Bottom)	CC15	Horizontal Car Operating Panel / Handicap Operating Panel
CC20	Hall Call Deselect Function	CC23	Hall Lantern Function
CC40	Handicap Hall button		
System Protection			
SP19	Multi-beam + Safety Edge Protection		
Emergency Solution			
ES19	Automatic Rescue Device (ARD)	-	Fire Emergency Operation (Manual)
-	Emergency light & sound		
Elevator Management Control			
EM01	Parking Operation	EM02	Manual Setting For Start Base Floor Function ^①
EM04	Attendant Operation	EM05	Independent Operation
EM07	CCTV Digital Interface (RJ45)	EM12	Supervisory Panel (Dry Contact Type)
-	SHE Card Reader (Dry Contact)		

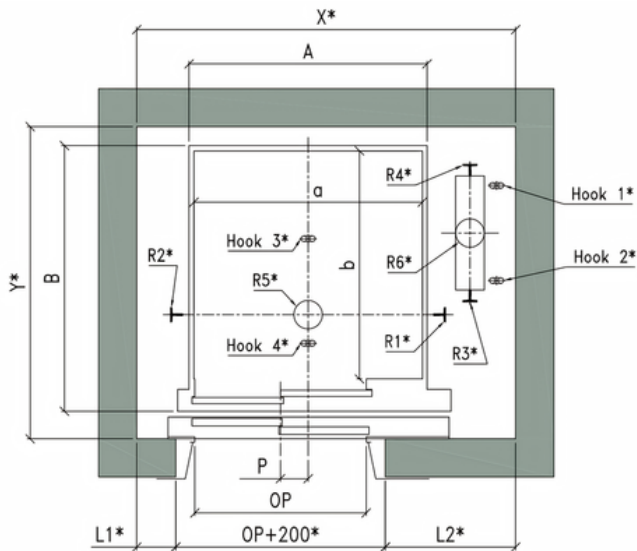
Note: ① Can be provided only when Single Operation.



Hoistway Plan
(Counterweight Location: Right)
(Opening Type: 2P-CO, Door Offset : 50 mm.)



Hoistway Plan
(Counterweight Location: Right)
(Opening Type: 2S-2P, Door Offset : 145 mm.)



- 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)
450/630/825/1000	60	2	2	3	3

Rated Speed (m/min)	Rated Load (kg)	Car Size (mm)		Door Opening (mm)		OPB Mounting Position	Door Offset P (mm)	Front Wall Arrangement (mm)		Hoistway Size (mm)	Reaction Loading					
		Car Inside (axb)	Car Outside (AxB)	Type	Width OP			L1	L2		XxY	R1	R2	R3	R4	R5
60	450	1000×1300	1050×1498	2S-2P	800	Side	95	100	505	1610×1688	40	30	30	25	100	90
	630	1100x1400	1150×1560	2P-CO	800	Front ^①	50	370	410	1780x1720	65	50	50	45	110	100
					900	Side	0	395	410	1905x1720						
			1150x1598	2S2P	800	Front	145	100	605	1705x1788						
					900	Side	95	100	505							
	825	1350×1400	1400×1560	2P-CO	800	Front	0	370	585	1955x1720	70	55	55	45	120	105
					900	Front ^①	75	395	460							
			1400x1598	2S-2P	800	Front	270	100	855							
					900	Front	220	100	755							
	1000	1600×1400	1650×1560	2P-CO	900	Front	0	445	660	2205x1720	80	65	60	50	135	115
			1650×1598	2S-2P	1000	Front	295	100	905	2205x1788						
					1200	Front	195	100	705							
			1400×1600	1450x1760	2P-CO	900	Front	50	395	510						
		1450×1798		2S-2P	1000	Front	195	100	705	2005x1988						
			1200		Side	95	100	565	2080x1988							

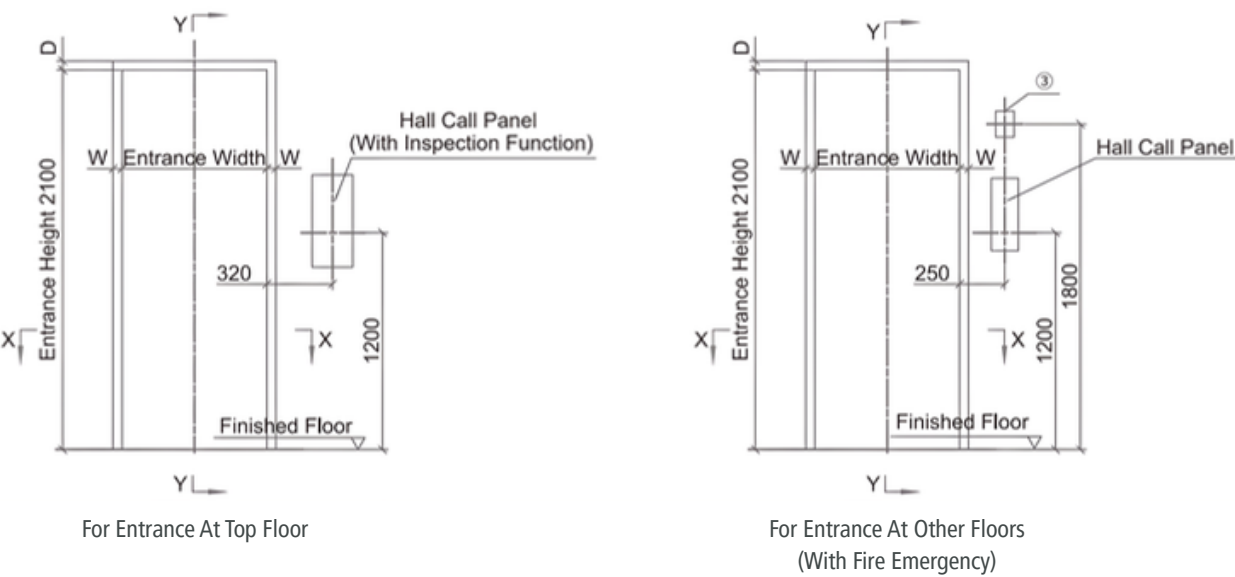
- Note:
- ① OPB mount on Front wall at opposite side of Counterweight (EX : Counterweight at Side left, OPB will be at Front right.)
 - ② The above information are based on GB/T 7588-1/2-2020 standards.
 - ③ The above information and dimensions are based on right side counterweight.
 - ④ Configuration is without counterweight safety gear.

Overhead Height and Pit Depth

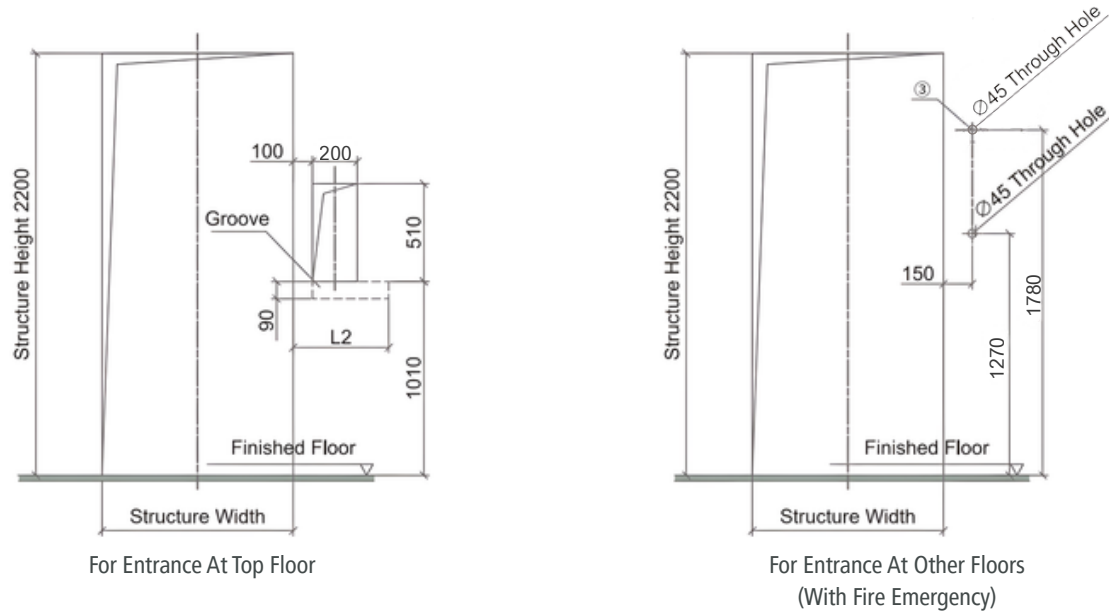
Rated Load (kg)	Rated Speed (m/min)	Overhead Height, OH (mm)	Pit Depth, PIT (mm)
450/630/825/1000	60	3650	1260

- Note:
- ① The above information are based on GB/T 7588-1/2-2020 standards.
 - ② The overhead height, OH is based on bare ceiling height of 2350 mm.
 - 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 450 kg~ 630 kg, decoration weight provision shall be up to 100 kg.
For rated load 825 kg ~ 1000 kg, decoration weight provision shall be up to 200 kg.

Elevation of Entrance



Structure Opening of Entrance



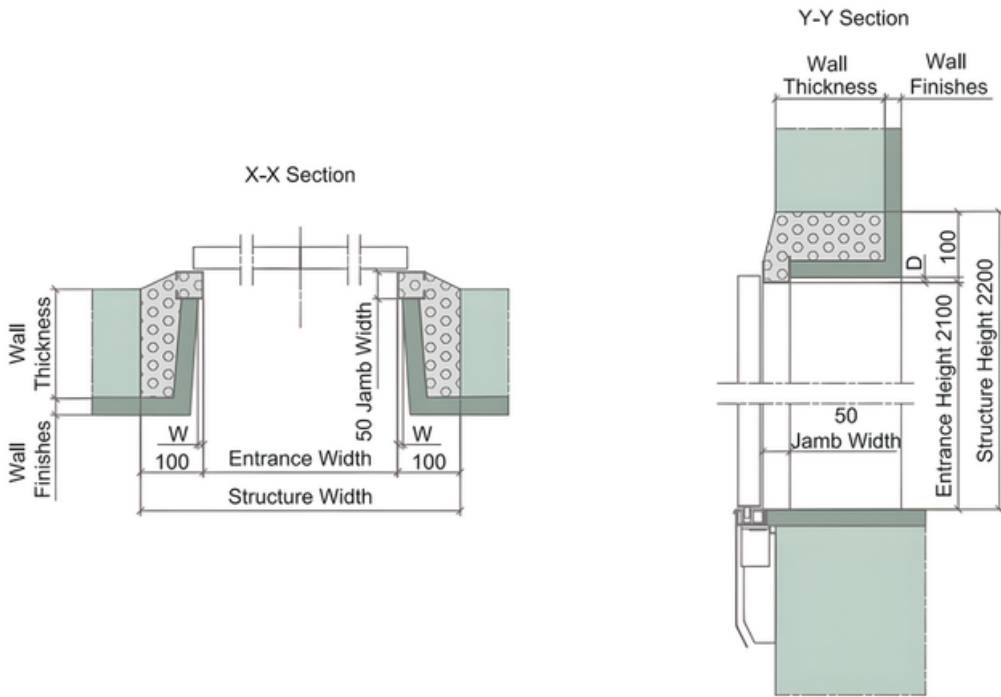
Type	AS-1X
W	10
D	10

- 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 fire emergency operation with switch is located at lift landing.

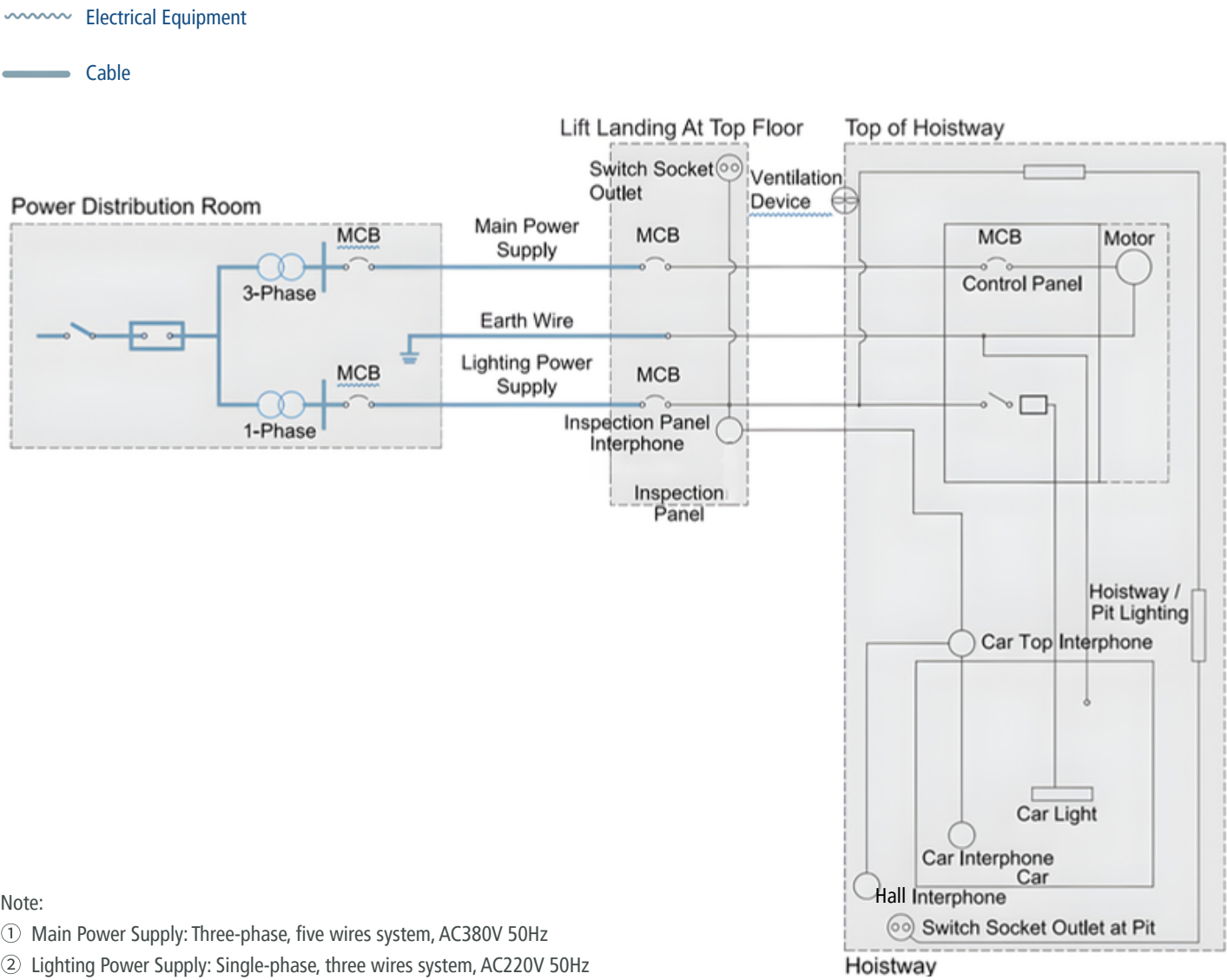
The followings shall be furnished by building contractors:

- Building Structure
- Wall and Floor Finishes
- Grouting Work

Narrow Jamb (AS-1X)



The followings shall be furnished by building contractors:



- 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 40C.
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.	Rated Load (kg)	Rated Speed (m/min)	Supply Voltage	Circuit Breaker Capacity (A)		Transformer Capacity (kVA)		Main Power Wire Size (mm ²)		Earth Wire Size (mm ²)	
				1 unit	2 units	1 unit	2 units	1 unit	2 units	1 unit	2 units
1	450	60	3Φ380V 1Φ220V 50Hz	32	32	5	8	6	8	6	8
2	630			32	32	6	10	6	8	6	8
3	825			32	40	8	14	6	8	6	8
4	1000			32	40	8	13	6	8	6	8

- Note:
- ① The above information are based on GB/T 7588-1/2-2020 standards.
 - ② The above information on the Supply Voltage, Circuit Breaker Capacity (A), Transformer Capacity (kVA), Main Power Wire Size (mm2) and Earth Wire Size (mm2) are the requirements at building side.
 - ③ The copper conductor specifications in the table take into account factors such as power cord material, wiring environment, and safety factors, which are suitable for applications where the wiring is 150 meters long. If the wire length is less than or more than 150 meters, the calculation should be performed according to this formula:
Main power wire size (mm2) = [Actual wire length / 150] x [Wire size in above table].

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

1. Hoistway walls (including reinforced concrete ring beams) should be vertical, and the allowable deviation for the hoistway verticality is 0~+30mm.
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 walls, floors and roofs should be able to absorb a large number of elevator operation noise.
6. Hoistway 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.

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 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.

This image shows a full page of blank, lined paper. It features approximately 20 evenly spaced horizontal grey lines across the entire width of the page, typical of notebook or primary writing paper. There are no margins, text, or other markings present.