

# YZER-R



YZER-R

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— GLOBAL SALES &  
SERVICE NETWORK

Optimal Value

YZER-R

OPTIMAL VALUE FOR OWNERS, MANAGERS, AND USERS -

Unveiled in 1999, YZER is Hyundai Elevator's first machine-room-less elevator  
that uses in-house know-how and technology.

YZER-R continues to deliver the value that is fundamental to YZER's steady fame.

EFFICIENT

-

ECONOMIC

-

SAFE

-

COMPACT

-

TIME SAVING

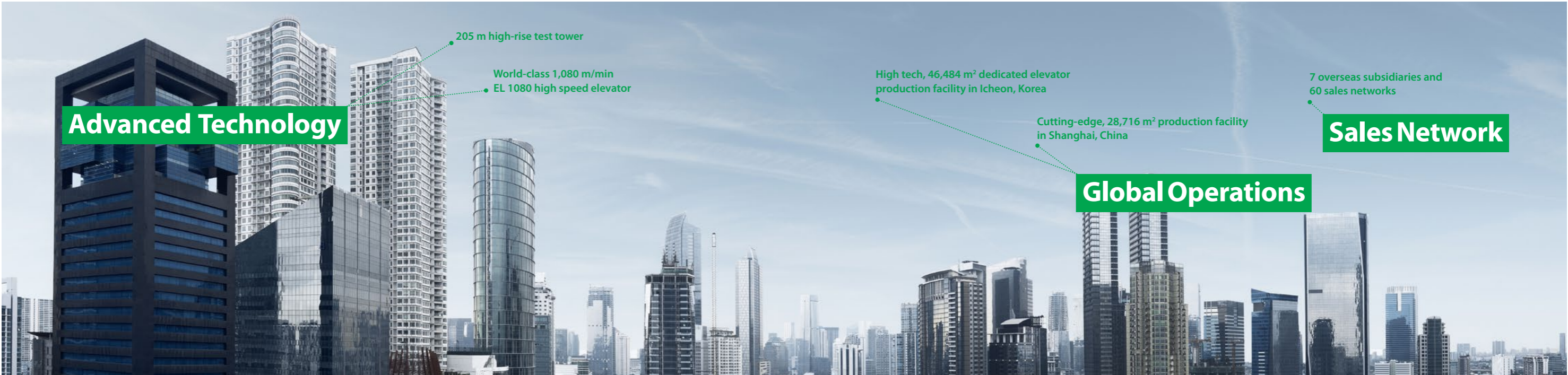
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SMOOTH

—

WHY **HYUNDAI ELEVATOR?**

Factors that contribute to Hyundai Elevator's credibility and reliability.



**WORLD-CLASS ELEVATOR TECHNOLOGY**

Hyundai Elevator has the world's most advanced high-speed elevator technology. It built Hyundai Asan Tower, a world-class elevator test tower, in April 2009 to thoroughly evaluate and validate the safety and reliability of its products under conditions that closely replicate those of a high-rise building.

- THE EL 1080 high-speed elevator**  
World-class elevator (1,080 m/min.)
- THE EL DUO double-deck elevator**  
1.8 times more loading capacity through 2 vertically integrated elevators



**PRODUCTION SYSTEM AND SALES NETWORK THAT SPAN ACROSS BORDERS**

In addition to state-of-the-art production facilities in Korea, Hyundai Elevator built manufacturing facilities in China to supply its unparalleled products worldwide. The company strives to better meet the needs of global customers through localization and by maximizing synergy among its 7 overseas subsidiaries and 60 sales networks.

- MANUFACTURING PLANTS**
  - Icheon Headquarters** (Icheon, Korea)
    - [Factories 1, 2, 3] 46,484 m<sup>2</sup> state-of-the-art facilities
    - Production of elevators, automated material handling system, parking systems, platform screen doors (PSD), etc.
    - Hyundai Asan Tower
    - Hyundai Customer Care Center (CCC)

- China Factory** (Shanghai, China)
  - 28,716 m<sup>2</sup> state-of-the-art facilities
  - Production of elevators and escalators
  - Elevator test tower (72 m high)

CERTIFICATION



ISO9001



ISO14001



OHSAS18001

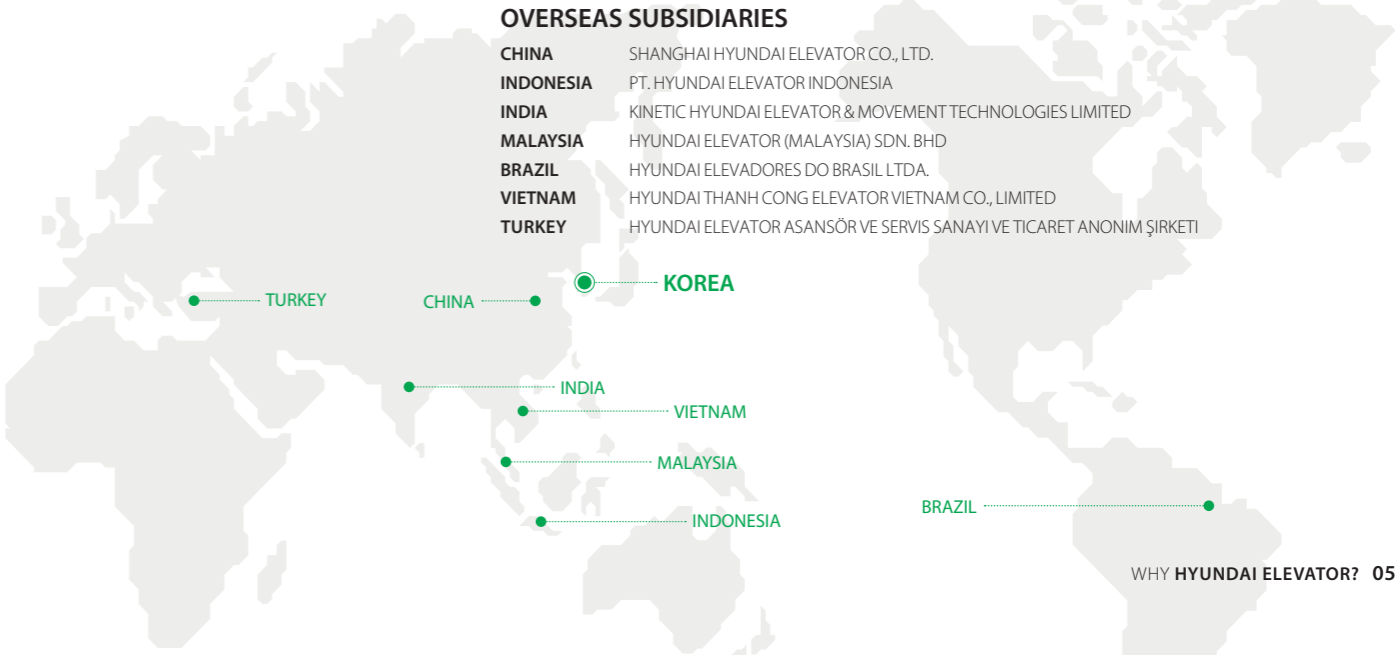


VDI 4707-1:2009  
Class "A" from TÜV, Germany



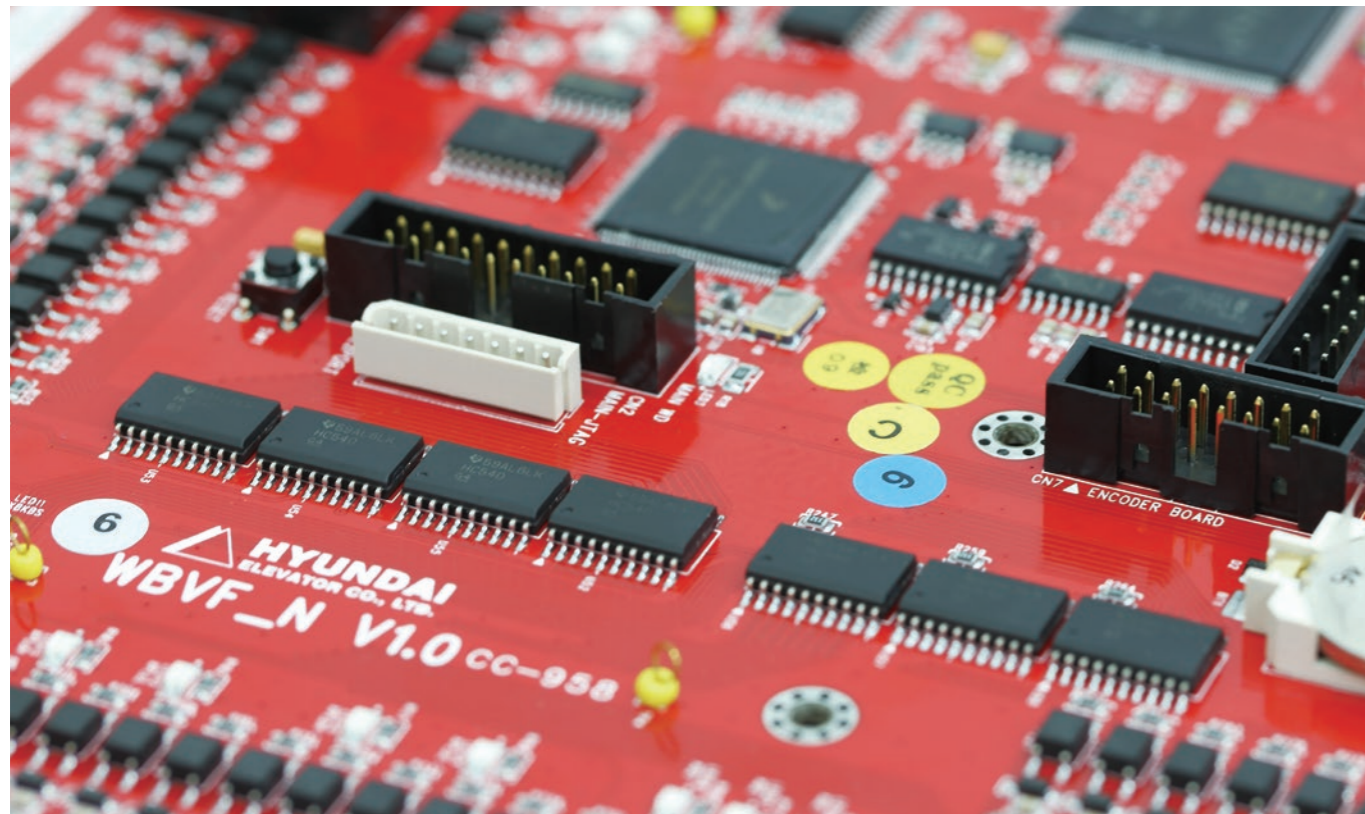
ISO 25745-2:2015  
Class "A" from TÜV, Germany

- OVERSEAS SUBSIDIARIES**
  - CHINA** SHANGHAI HYUNDAI ELEVATOR CO., LTD.
  - INDONESIA** PT. HYUNDAI ELEVATOR INDONESIA
  - INDIA** KINETIC HYUNDAI ELEVATOR & MOVEMENT TECHNOLOGIES LIMITED
  - MALAYSIA** HYUNDAI ELEVATOR (MALAYSIA) SDN. BHD
  - BRAZIL** HYUNDAI ELEVADORES DO BRASIL LTDA.
  - VIETNAM** HYUNDAI THANH CONG ELEVATOR VIETNAM CO., LIMITED
  - TURKEY** HYUNDAI ELEVATOR ASANSÖR VE SERVİS SANAYİ VE TİCARET ANONİM ŞİRKETİ



## From performance to safety, YZER-R has been optimized using technology.

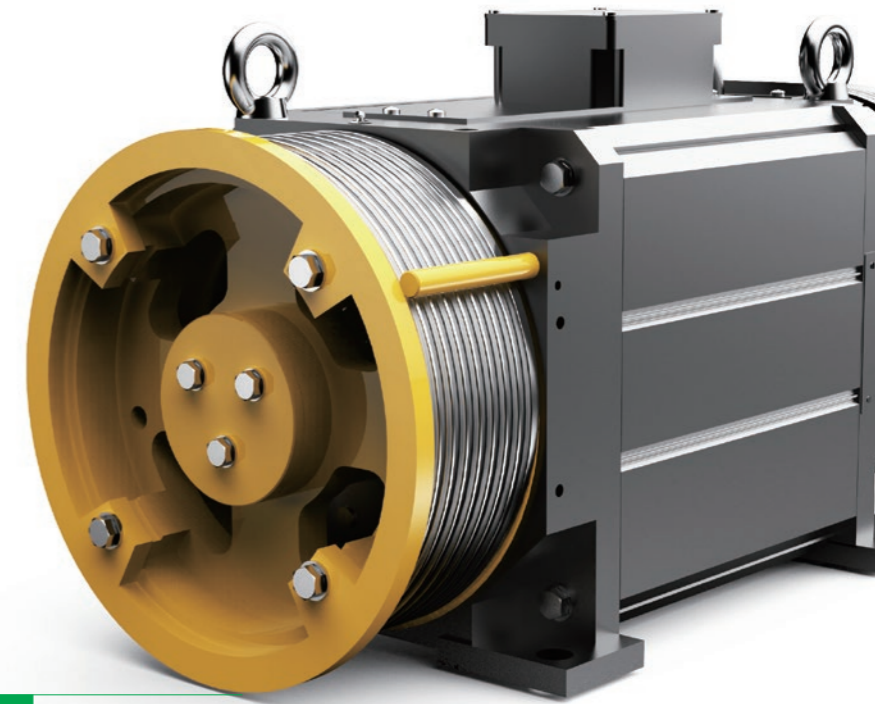
YZER-R's optimum design and technology furnish dependable performance and efficiency. Its economy, durability, and safety becomes clearly noticeable with greater use.



## EFFICIENT

### Integrated CPU design and optimized data network system

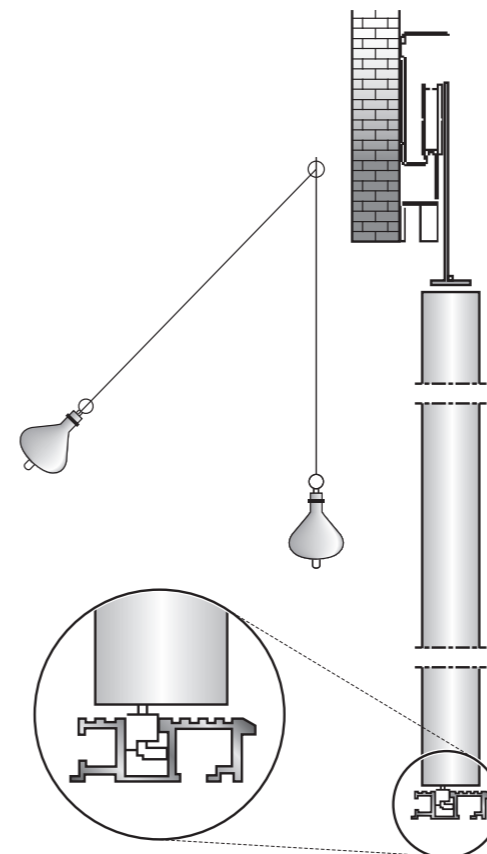
- The integrated design of the CPU reduces interference between the control panel and converter.
- Integrated controls and efficient management of each elevator's data network system ensure quick and accurate response to calls.
- Sine/cosine encoders ensure that cages stop precisely at each level and potentiometers allow level adjustment without weight detection sensors.



## ECONOMIC

### Energy and maintenance cost savings

- Gearless traction machine and synchronous motor minimize power consumption.  
※ Optional PWM-type inverter can maximize energy efficiency
- U-shaped groove design of the drive sheave reduces friction and extends the service life of the rope to improve reliability.
- Eco-friendly, lubrication-free system reduces costs and simplifies maintenance.



## SAFE

### Derail prevention guide shoes

- Derail prevention guide shoes minimize accidents and enhance user safety.

## Whether installing or riding the elevator, YZER-R delivers great satisfaction.

The optimized hoistway, machine room, and installation plan brings great satisfaction during construction and installation.  
Rigorous noise and vibration design ensures that passengers enjoy a comfortable ride.

### COMPACT

**Maximum utilization of the building area and  
reduction of construction costs**

- Minimized hoistway, pit, and overhead spaces.
- Minimized cross sectional hoistway space to maximize building space utilization.
- Minimized upper and lower hoistway spaces to reduce machine room construction costs.

### TIME SAVING

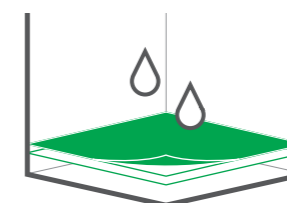
**Simplified structure**

- Simplified structure reduces installation time.  
(Integrated design of the ceiling)

### SMOOTH

**Reinforced vibration and noise standards**

- In-house vibration and noise standards of the cage are higher than ISO standards and compliance is strictly enforced to guarantee an exceptional ride.
- Waterproof flooring reduces vibration and noise.



# CAGE DESIGN

Diverse floor, ceiling, and lighting materials can be used to match the cage's interior with the building's concept.

## YZER-R CAGE DESIGN

Stylish and durable materials improve convenience while ensuring a comfortable ride.

## YZER-R | A TYPE

CEILING	CD113B (Color steel plate P017), LED down light
CAGE WALLS	Color steel plate (P017)
CAGE DOOR	Color steel plate (P017)
CONTROL PANEL	OPP-D564 / White LED dot / Hairline finish stainless steel
FLOORING	PVC / FP-08



Front image



Rear image

Notes:  
1. Samples and images depicted may differ from the actual product. All specifications are based on the actual product.  
2. Lateral cross section may vary depending on the weight capacity of the elevator.

YZER-R | **B TYPE**

<b>CEILING</b>	CD113B (Color steel plate P019), LED down light
<b>CAGE WALLS</b>	Hairline finish stainless steel
<b>CAGE DOOR</b>	Hairline finish stainless steel
<b>CONTROL PANEL</b>	OPP-D564 / White LED dot / Hairline finish stainless steel
<b>FLOORING</b>	PVC / FP-08



YZER-R | **C TYPE**

<b>CEILING</b>	CD198A (Color steel plate P024), LED down light
<b>CAGE WALLS</b>	Hairline finish stainless steel
<b>CAGE DOOR</b>	Hairline finish stainless steel
<b>CONTROL PANEL</b>	OPP-D564 / White LED dot / Hairline finish stainless steel
<b>FLOORING</b>	PVC / FH-02



YZER-R | **D TYPE**

<b>CEILING</b>	CD191A (Color steel plate P033 / Hairline finish stainless steel)
<b>CAGE WALLS</b>	Hairline finish stainless steel
<b>CAGE DOOR</b>	Hairline finish stainless steel
<b>CONTROL PANEL</b>	OPP-D564 / White LED dot / Hairline finish stainless steel
<b>FLOORING</b>	PVC / FP-08



YZER-R | **E TYPE**

<b>CEILING</b>	CD451B (Color steel plate P022)
<b>CAGE WALLS</b>	Hairline finish stainless steel
<b>CAGE DOOR</b>	Hairline finish stainless steel
<b>CONTROL PANEL</b>	OPP-D564 / White LED dot / Hairline finish stainless steel
<b>FLOORING</b>	PVC / TN2604C



Notes:  
1. Samples and images depicted may differ from the actual product. All specifications are based on the actual product.  
2. Lateral cross section may vary depending on the weight capacity of the elevator.

# KEY FEATURES

Every detail has been embellished while keeping efficiency and functionality in mind.

## OPERATING PANEL / HALL BUTTON / INDICATOR



**Operating Panel**  
OPP-D564  
- Panel: Hairline finish stainless steel (option to choose a stainless steel mirror)  
- Display type: White LED dot  
- Button: 64 Type



**Display**  
- White LED dot matrix



**Display (Optional)**  
- 7-inch vertical liquid crystal  
- White letters on black background



**Display (Optional)**  
- 7-inch vertical liquid crystal  
- White letters on pink background



**Indicator PI-D600 (Optional)**  
- Floor number display: Red LED dot  
※Operating panel does not include the cage's floor number display



64 Type



82 Type (Optional)

## OPTIONAL



**Operating Panel for the Handicapped** OPP-N264W-N  
- Panel: Hairline finish stainless steel  
- Display type: no display  
- Button: 64 Type

## HALL BUTTON BOXLESS-TYPE



**Hall Button**  
HIP-DC64  
- Matte stainless steel to avoid fingerprints



**Hall Button**  
HIP-DC64W  
- Matte stainless steel to avoid fingerprints



**Display**  
- Red LED dot



**Display (Optional)**  
- 3.9-inch monochrome liquid crystal display  
- White letters on blue background



64 Type



82 Type (Optional)

## HALL BUTTON BOX-TYPE



**Hall Button**  
HIP-D264C  
- Hairline finish stainless steel



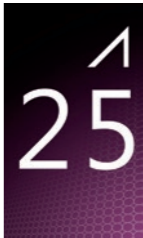
**Hall Button**  
HIP-D264CW  
- Hairline finish stainless steel



**Display**  
- Red LED dot



**Display (Optional)**  
- 3.9-inch monochrome liquid crystal display  
- White letters on blue background



**Display (Optional)**  
- 4.3-inch vertical liquid crystal  
- White letters on pink background



64 Type



82 Type (Optional)

## OPTIONAL



**Hall Button**  
HPB-264C  
- Hairline finish stainless steel



**Hall Button**  
HPB-C64  
- Matte stainless steel to avoid fingerprints



**Indicator PI-D600**  
- Red LED dot

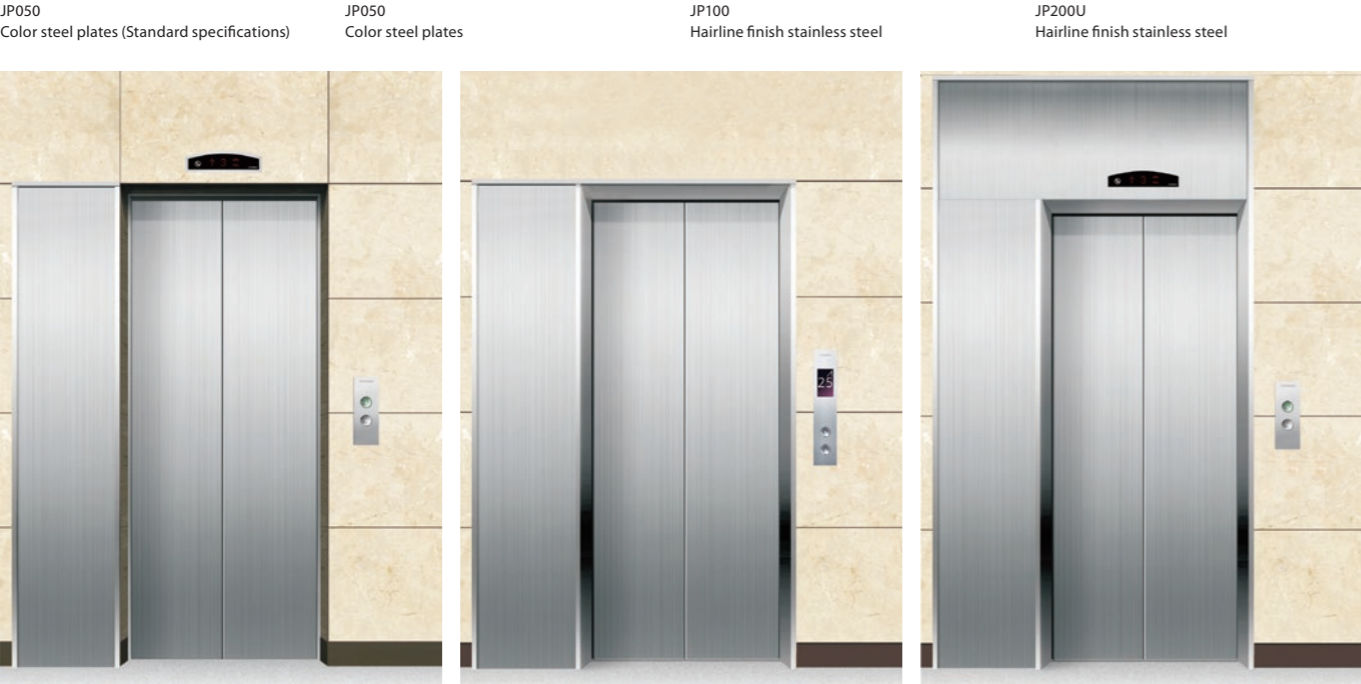


**Indicator PI-D610**  
- Red LED dot

Note: Samples and images depicted may differ from the actual product. All specifications are based on the actual product.

KEY FEATURES

ENTRANCE DESIGN



WE050 Hairline finish stainless steel (optional for the top floor that excludes the machine room)

WE100 Hairline finish stainless steel (optional for the top floor that excludes the machine room)

WE200U Hairline finish stainless steel (optional for the top floor that excludes the machine room)

HANDRAIL



HR-BAR Hairline finish stainless steel

1C Hairline finish stainless steel

Note: Samples and images depicted may differ from the actual product. All specifications are based on the actual product.

CEILING



FLOORING DESIGN



FH-01 FH-02 FP-08 TN2604C

PAINTED STEEL

STANDARD COLOR

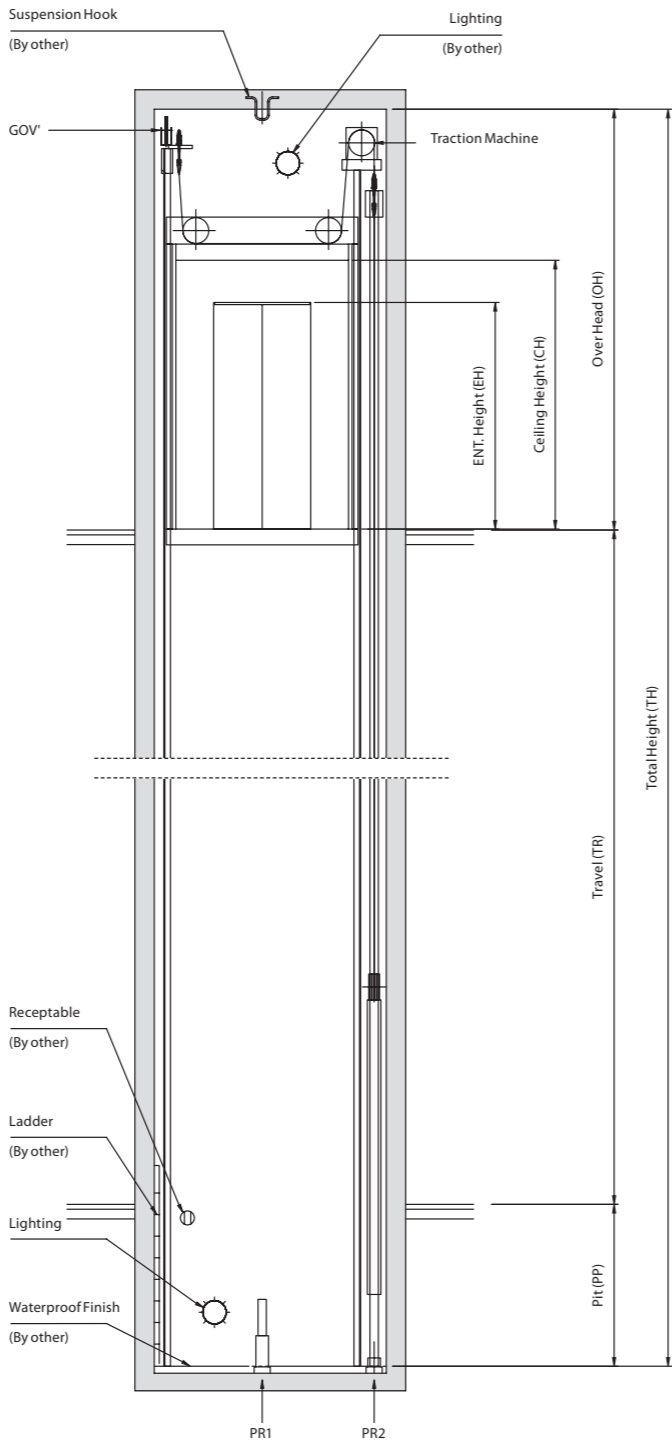
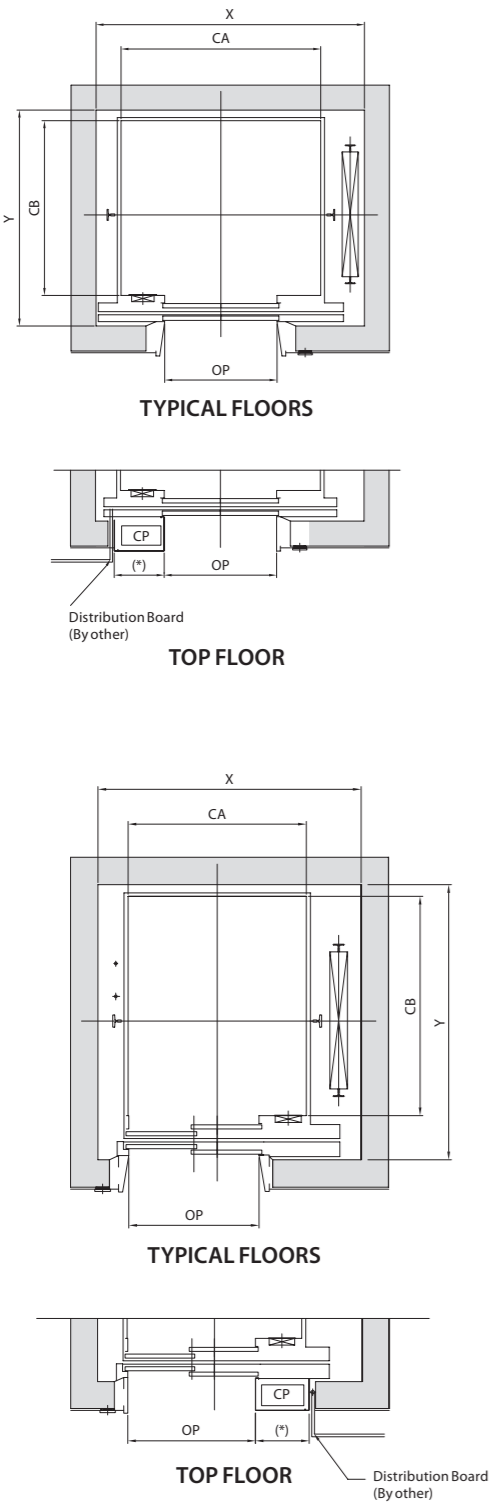


METAL COLOR



# HOISTWAY PLAN AND SECTION

## LAYOUT OF HOISTWAY



- Notes:
- The lighting of hoistway should be installed less than 500mm from above the ceiling of hoistway and within 500mm above the bottom of the pit. (By others)
  - Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner (if necessary) and humidity below 90%.

# STANDARD DIMENSIONS AND REACTIONS

## MANUFACTURER STANDARD

Unit: mm																	
Speed (m/sec)	Capacity		Opening Type	Clear Opening	Car Size (mm)		Hoistway Size (mm)			Control Panel Box (mm)	PIT Reaction (Kg)						
	Persons	Kg			OP	CA	x	CB	X		x	Y	CP	PR1	PR2		
Center	1.0	6	450	2P-CO	700	1100	x	1100	1700	x	1450	505	5600	4700			
		7	550		800	1100	x	1300	1800	x	1650		6100	5000			
	1.0	8	630		800	1100	x	1400	1800	x	1750		7000	5700			
						1400	x	1100	2000	x	1450		7400	6000			
		1.5	9		700	800	1250	x	1400	1900	x		1750	7800	6200		
	1.75	10	800		800	1300	x	1400	1900	x	1750		8700	6900			
		12	900		900	1600	x	1300	2200	x	1650		9600	7600			
	13	1000	900		1600	x	1400	2200	x	1750	9600		7600				
	Side	1.0	5		400	2P-SO	800	1000	x	1100	1600		x	1500	505	5300	4500
			6		450		800	1100	x	1100	1700		x	1550		5600	4700
7			550	800	1100		x	1300	1700	x	1700	6100	5000				
1.0		8	630	800	1100		x	1400	1700	x	1800	7000	5700				
		9	700	900	1200		x	1400	1800	x	1800	7400	6000				
		10	800	900	1300		x	1400	1900	x	1800	7800	6200				
1.5		12	900	900	1300		x	1600	1900	x	2000	8700	6900				
		900	1100	x	2100		1700	x	2500	9600	7600						
13		1000	1200	2100	x		1100	2700	x	1550							

- Notes:
- Above dimensions are applied base on standard car size & opening size for other applicable dimensions, please contact us.
  - If apply the safety gear on counterweight side, please consult with us.
  - If need to apply safety gear on counterweight, please consult with us.

## OVERHEAD & PIT DEPTH

Unit: mm			
	Speed (m/s)	Max.Travel (TR)	Pit Depth (PP)
EN81-1	1.0	50,000	CH+1400
	1.5	70,000	CH+1500
	1.75	80,000	CH+1600
EN81-20	1.0	50,000	CH+1700
	1.5	70,000	CH+1800
	1.75	80,000	CH+1900

- Notes:
- Above dimentions are applied base on standard car size & opening for other applicable dimensions, please contact us.
  - In case of 1.0 M/s with travel is above 25m, Pit depth should be increased 100mm to apply the compensation device.
  - When non-satandard capacities and dimensions are required to meet the local code, Please consult us.

POWER SUPPLY PLAN

POWER SUPPLY PLAN

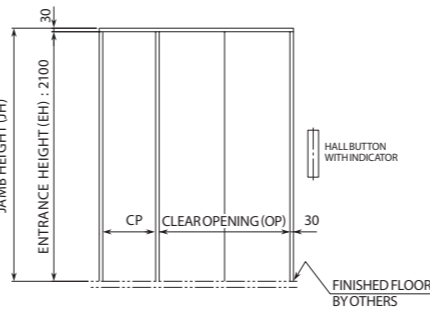
380V

Load (kg)	Speed (m/s)	Motor Capacity (kW)	MCCB Capacity of Building (A)	Power Supply Capacity (kVA)	Power Cable Size (mm²)	Earth Wire Size (mm²)	Starting Power (kVA)
400	1.0	2.7	20	6	4	10	12
450	1.0	3.0	20	7	4	10	12
550	1.0	3.7	20	7	4	10	14
630	1.0	4.2	20	8	4	10	16
	1.5	6.3	32	11	4	10	22
	1.75	7.4	32	13	4	10	26
700	1.0	4.7	20	8	4	10	16
	1.5	7.0	32	12	4	10	24
	1.75	8.3	32	14	6	10	28
800	1.0	5.3	20	9	4	10	18
	1.5	8.0	32	13	6	10	26
	1.75	9.4	32	15	6	10	30
900	1.0	6.1	20	10	4	10	20
	1.5	9.0	32	14	6	10	28
	1.75	10.6	32	16	6	10	32
1000	1.0	6.7	32	11	4	10	22
	1.5	10.0	40	15	6	10	30
	1.75	11.7	40	17	10	10	34

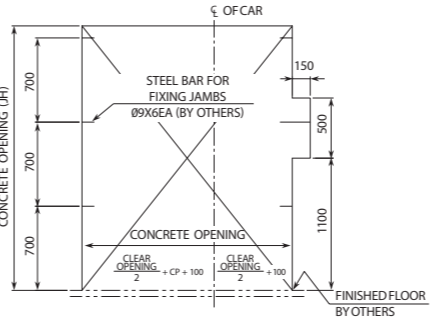
Note:  
Power cable size is assuming Max.50m to maintain the maximum allowable voltage drip of 5% based on the maximum starting current at operating with full load.

ENTRANCE LAYOUTS

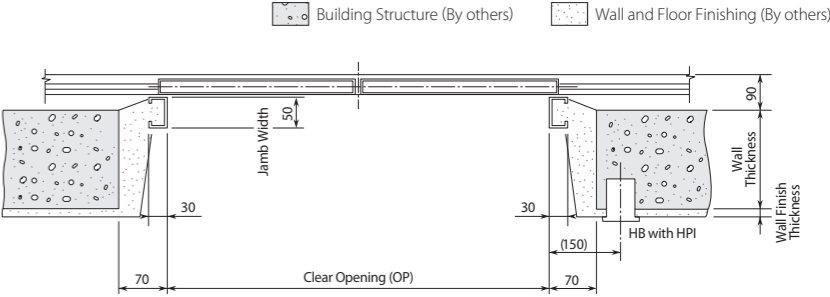
ENTRANCE DESIGN



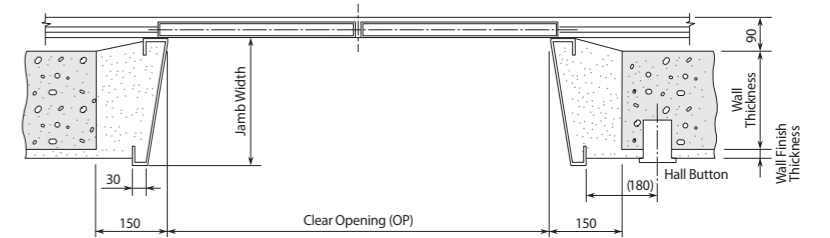
STRUCTURAL OPENING OF ENTRANCE



PLAN OF ENTRANCE

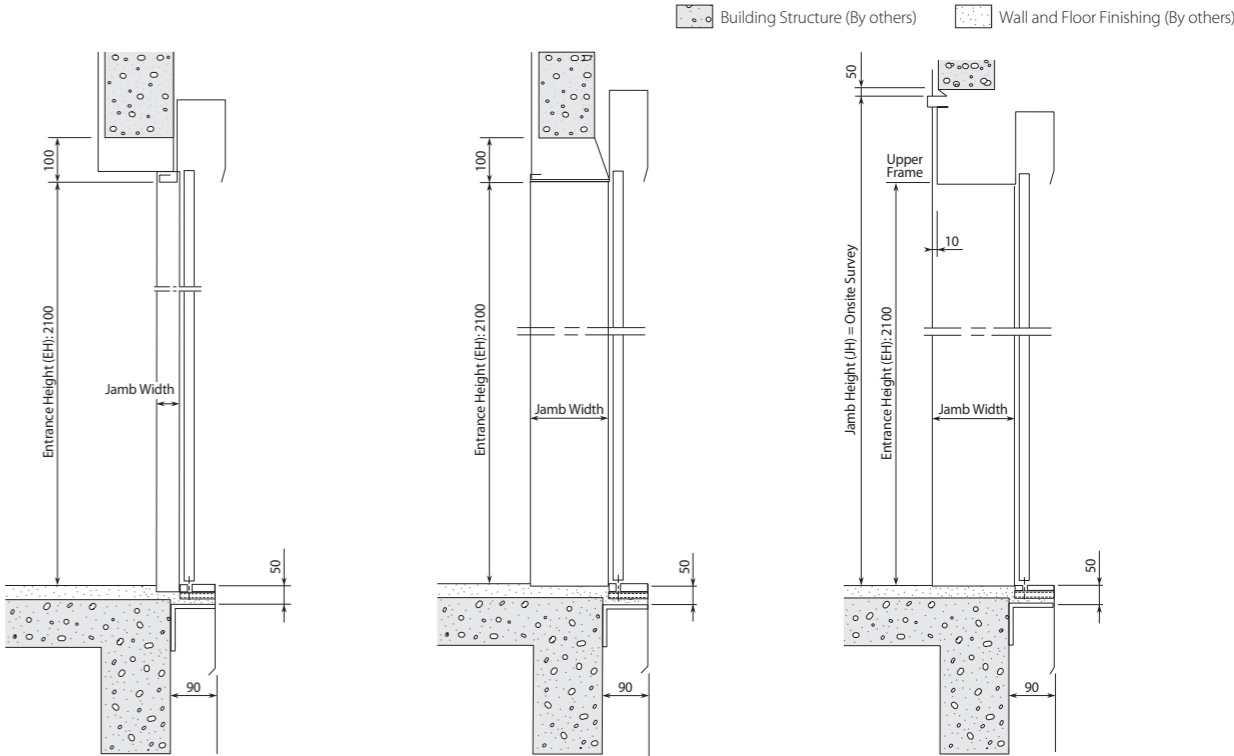


JP050 TYPE



JP100, JP200U TYPE

SECTION OF ENTRANCE



JP050 TYPE

JP100 TYPE

JP200U TYPE

LAYOUT OF FUNCTIONS

STANDARD SPECIFICATIONS

Function	Description
Simplex selective collective operation	Operation is carried out completely automatically when a call is registered.
Automatic low speed operation	If the car stops and the cage is not at the same level as the landing under normal operation, the cage is moved automatically to the closest landing at low speeds before the door is opened.
Automatic door opening	Doors open automatically when the elevator reaches a landing.
Door open hall button	Pressing the door open hall button opens the door of an elevator on standby on the respective floor. The door closes automatically after a given time period elapses. It remains open while the button is held down.
Door close button	Pressing the door close button while operating in automatic mode forces an open door to close before the automatic open door time elapses.
Door open button	Pressing the door open button while the cage is still at a landing with the door closed prompts the door to open.
Repetitive door opening	The elevator automatically reports a breakdown and displays a breakdown sign when doors fail to close completely and repeat an open and close movement.
Inspection mode	Engaging the inspection switch causes the elevator to operate under inspection mode. Calls are cancelled and usage of the elevator from the cage or hallways is stopped completely. The inspector can move the cage up or down at regulated speeds by pressing the up and down buttons.
Emergency lighting	Emergency lights inside the cage turn on automatically in the event of a power failure.
Inter phone	The cage, machine room, ceiling, pit, and control room can be connected for passengers or maintenance personnel to call for assistance when trapped.
Manual operation	Operation mode can be switched from automatic to manual through a switch on the operating panel.
Call cancel	Passengers can cancel stops by pressing the respective floor button a second time.
Reverse direction call auto canceling	All stop requests are cancelled once the elevator arrives at the last floor on either direction.
Automatic light switch	Lights inside the cage turn off automatically if a call is not registered within a given period of time. Lights are reactivated once the elevator is called.
Automatic air conditioning switch	Air conditioning inside the cage is turned off automatically if a call is not registered within a given period of time. It is reactivated once the elevator is called.
Auto-wait floor	Under automatic operation mode, the elevator returns automatically to a designated floor if a preset time period elapses without any calls.
Hoistway data automatic learning	Diverse hoistway (floor height, safe opening/closing level, etc.) and operation data are permanently learned and stored.
Customization of service floors	Service floors, parallel lifts, evacuation floors, parking (doors locked) floors, basement floors, etc. can be customized through the elevator's user interface (UI).
LED dot-type floor indicators	Dot type position indicators in cages and hallways allow beautiful and lively communication through a diverse selection of colors.
Scrolling numeric/directional display	Scrolling arrow displays in the hall and cages signal movement and direction of travel.
Automatic update of cage position signal	Elevator position data is updated by reconfirming the activation position of safety and horizontal floor level switches.
Service lock	The elevator ceases to operate when the service lock switch is turned on. It resumes operation as soon as the lock switch is turned off.
Emergency return	Activation of the fire switch on the main floor cancels all calls and prompts the elevator to go immediately to the evacuation floor (safety floor) and to remain with the doors opened.
Protective door safety shield	Infrared sensors monitor the entire height of the door to protect passengers and cargo while the door is closing.
Overload protection	A buzzer rings and doors remain open when weight capacity is exceeded. The cage display informs passengers that the weight limit has been surpassed.
Reverse operation protection	The system recognizes if the elevator movement does not match with the direction of the indicator for more than 3 minutes and immediately stops the car, alerting the control room.
Slip protection	Cage operation is stopped and a breakdown alert is sent when the system detects a rope slip.
Cage slip prevention	If the system detects feedback pulses for more than 3 seconds after the elevator comes to a stop and there is a change in the cage's horizontal position, the system will suspect an elevator slip and immediately stop the cage's operation, sending out a breakdown alert.
Overrun prevention	Deceleration switches and limit switches at the top and bottom ends of the elevator cage prevent the elevator from overrunning floors.
Arrival voice announcement	A voice system informs passengers about the arrival floor and direction of operation when the elevator arrives at a landing.

OPTIONS

Function	Description
Door safety shoe	Elevator doors open immediately if a passenger or object touches the safety shoe while the door is closing.
Parallel control	If two elevators share a single call system, the closest elevator is summoned when the call button is pressed to increase efficiency.
Group control operation	3 or 4 elevators are grouped and controls are centralized in high-rise buildings with a large number of users to increase transportation efficiency.
Emergency leveling during power outages	Energy stored in rechargeable batteries supply power to move the elevator automatically to the closest landing and to open the doors to unload passengers during power outages.
Secondary operating panel in the cage	A secondary operating panel can be installed in the cage of high capacity elevators for the convenience of passengers.
Flashing car position indicator lamp	Position indicator lamps in the hallway flash to announce the arrival of an elevator and indicate its travel direction.
Automatic pass through	The car only responds to internal calls and passes through other floors when it reaches full capacity while operating in automatic mode.
Jam prevention	All registered floor requests are canceled automatically if there are more than 6 registered calls and few passengers aboard.
Emergency firefighting operation	When the firefighting switch is turned on, all external calls are canceled and the elevator responds to internal calls only.
VIP function	Cage doors open and the elevator remains on standby on a designated VIP floor upon being summoned.
IC card function	The IC card function can be added to hall buttons and operating panels of cages to service IC card holders only.
Door hold function	Door is held open for a preset time.
Destination selecting system	System analyzes pre-registered floor requests and optimizes operation to reduce passenger time and save energy.

CONSTRUCTION AND INSPECTION REQUIREMENTS

ELEVATOR CONSTRUCTION AND INSTALLATION REQUIREMENTS

Applicable to all construction that follows Hyundai Elevator's floor and construction plans	
General conditions	1. The buyer shall provide an unloading dock for construction materials and equipment, as well as sufficient warehouse space with a secure locking system.
	2. The buyer shall bear responsibility for the storage of elevator equipment boxes prior to opening. Buyer and supplier shall jointly unpack and inspect the equipment.
	3. The buyer shall build a hoistway in accordance to the civil drawings and rectify any discrepancies as requested by the supplier.
	4. The buyer shall be responsible for any modifications of the interior and the hole on the floor after installation.
	5. Before and during the installation of the elevator, every opening on each floor must be guarded with safety rails or sheaths that are at least 1.2 m in height. Each must withstand at least 900N in strength.
Pit	1. The buyer shall provide a dry, waterproof pit that can resist loads as per the civil drawings.
	2. The buyer shall provide reinforced concrete flooring or cement grouting to support equipment installed in the pit.
	3. The buyer shall install drainage or waterproofing if necessary.
	4. The buyer shall dispose all waste that is unrelated to the construction work.
Hoistway	1. The hoistway and its construction must comply with all relevant standards as dictated by national authorities and Hyundai Elevator's construction drawings and attain the required fire rating. Hoistway walls must be adequately reinforced and evened, without any protrusions or exposed rebar and foreign matter.
	2. The hoistway must have the openings and recesses necessary to install the door frames, hall buttons, and displays in accordance to Hyundai Elevator's drawings. It must include ventilation holes and hoistway emergency exits.
	3. When planning and building the hoistway, all components, including T beams and H beams, must meet weight and load requirements that correspond to the planned use of the elevator.
	4. Each hoistway elevator door opening must include space for door sills and headers in accordance to Hyundai Elevator's drawings.
	5. The buyer shall provide exact reference marks and sill reference lines for the installation of door frames.
Machine room	1. Openings must be provided according to specifications on the plans. Machine room height and space must conform to the drawings.
	2. Three-phase, 5-line electric power supply that meets or exceeds the minimum required output rating must be supplied free of charge for the machine room and lighting during the construction period.
	3. Machine room door and windows must be shut and locked. They must be marked with "Restricted Access: Authorized Personnel Only" labels.
	4. A hook with sufficient loading capacity must be placed directly at the top of the hoistway of the machine room.
	5. An independent grounding line with a cross-sectional area greater than that of the power line must be provided in the machine room. Ground resistance must be less than 4 ohms, and insulation wire must be used on the section starting from the ground up to the machine room.
	6. The machine room floor must have sufficient strength (minimum 500kg/m²) and slip resistance. Each weight loading point shall meet mechanical reaction force criteria.
	7. Proper ventilation or air conditioning equipment must be installed in the machine room.

ELEVATOR INSPECTION REQUIREMENTS

1. Machine room air temperature shall be between 5 ~ 40°C, have good ventilation, and maintain humidity levels below 85%. Ground lighting should be 200 lux or higher.

2. Voltage oscillation of power from the grid must remain between ±7% of the voltage rating.

3. Surrounding air must not contain corrosive gases, combustible gases, or conductive dust.

4. The machine room must not contain any articles or facilities unrelated to the elevator.

5. Proper elevator equipment documentation and an operational management system must be in place.

6. Passages to the machine room, pulley room, and pit must be free of obstacles and have fixed lighting.

7. Machine room doors and windows must be lockable and rainwater proof. They must bear a "Restricted Access : Authorized Personnel Only" label. The machine room must have proper firefighting equipment, fixed lighting, and power outlets.

8. The grounding system should be a TN-S or TN-S-C type depending on the electric supply system. The central line (N) and the grounding line (PE) must be set apart starting from the machine room entrance.

9. If the distance between the elevator cage and a door pit on the hoistway becomes longer than 11m, an emergency door must be installed in between. The emergency door must only open outward from the interior of the hoistway. Once opened, the door must be closeable or lockable without a key. From the outside of the hoistway, the door must only be able to be opened with a key.

10. Spaces on the top of door frames and the hoistway wall must be grouted and filled. Recesses on the wall for hall buttons must be covered.

11. Hoistways used by more than 1 elevator must have partitions that are at least 2.5m high between elevators.
12. The hoistway must have fixed lighting. Lamps must be less than 0.5m apart at the top and bottom sections of the hoistway and 7m apart in the middle section.

13. The 5-way communication system must ensure communication between the cage and the control room.

14. The machine room must have a circuit breaker and independent power, lighting, hoistway lighting and ventilation control switches for each elevator. Every machine room must have at least 1 single-phase power outlet.

15. The emergency elevator machine room and the hoistway must be separate.

16. Freight elevators must be operated by a full-time operator who has an elevator operation license (applicable only if required by the inspection authority of the local government).

17. The machine room must have proper fire fighting facilities.

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