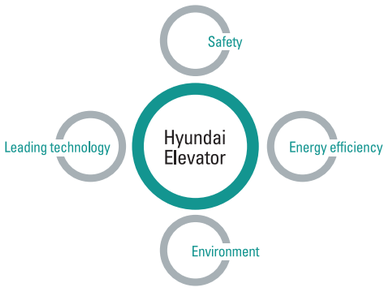
PASSENGER ELEVATORS

Moving solutions with safety, reliability and efficiency

HYUNDAI ELEVATOR



Since the 1984 founding of South Korea, Hyundai Elevator, an affiliate of Hyundai Business Group, with leading technology has grown up to Korea No. 1 elevator company. Now Hyundai Elevator is roaring towards to top of the world. We value the safety, energy efficiency, and environment-friendly features of the highest standard for all products made by Hyundai Elevator.

Contents

Trusted quality

We export products to 50 countries like Japan, Europe, East / West Asia, the Middle East and are recognized for excellence in quality.

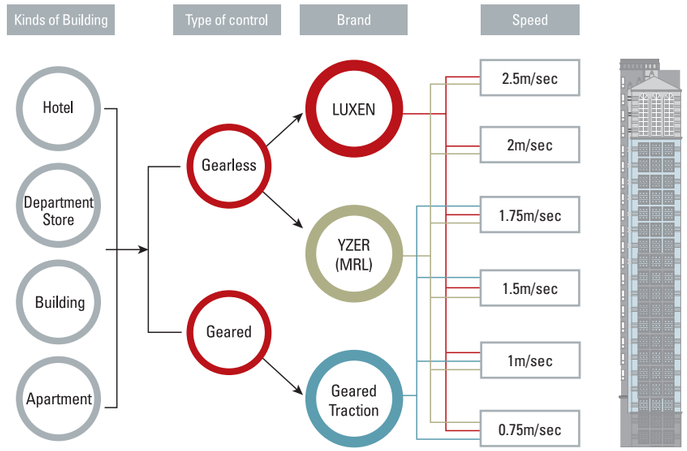
Refined design

Refined design to give consideration to health and the environment adds new value to the elevator.

[Selection of passenger elevator system]

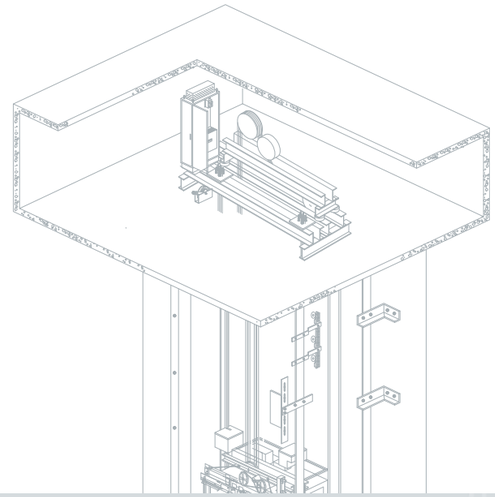
The selection of elevators should be made in consideration of the building type/scale, tenant characteristics, elevator usage and the anticipated passenger carrying capacity at the building's traffic peak time.

Hyundai elevators are available from geared traction elevator to gearless traction elevators, covering the full range of vertical transportation requirements.



Gearless Traction Machine

With the use of gearless traction machine, smoother ride, improved energy-saving, and environment-friendly features are enhanced.



+ Improved energy savings

Gearless traction machine with permanent magnet synchronous motor provides up to 25% energy savings compared with geared traction machine with induction motors.

+ Comfortable riding

Noise and vibration level have been decreased dramatically and car ride is improved thanks to the use of gearless traction machine with permanent magnet synchronous motor without toothing gear and rope swing.

+ Environment-friendly components

It is environmentally friendly because gear oil is not required.

+ Reduced installation space

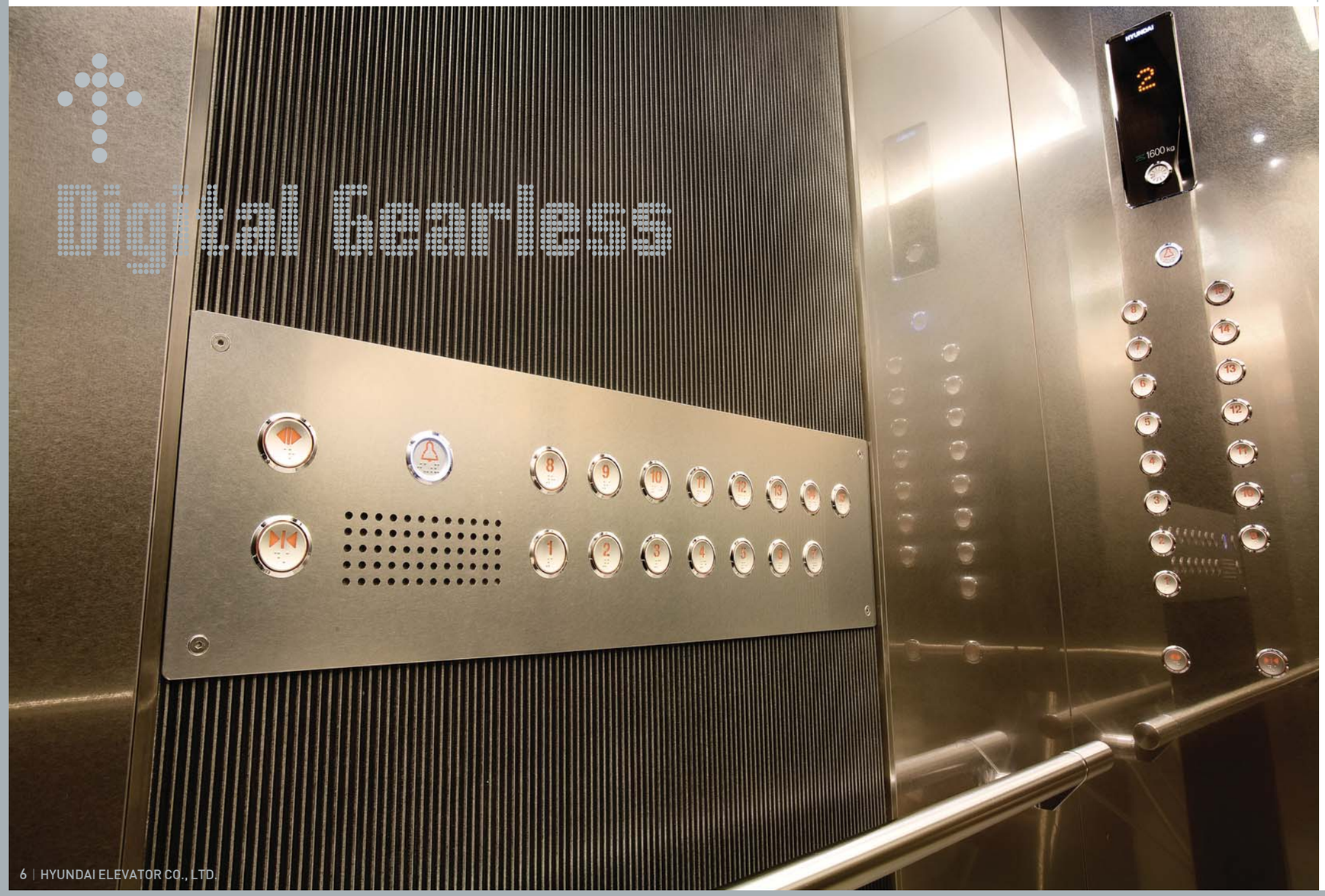
It can save the building space as it needs smaller machine room space than the conventional.

+ Easy installation and maintenance

The installation and maintenance is less complicated as the implementation is the same 1:1 roping for induction motor.

LUXEN (Medium speed gearless traction elevators)

A high-tech gearless traction machine which was used mainly in high-speed elevator is used for this product.



LUXEN
Digital Gearless

Excellent car ride

The LUXEN, using the gearless machine, provides a smooth and noiseless ride.

Increased energy efficiency

Gearless traction machine with permanent magnet synchronous motor application will increase energy efficiency.

Spacious car interior

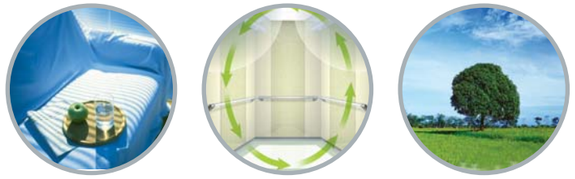
The car is more spacious and more comfortable compared with existing product design which has low ceiling height.

Eco-friendly product

This is an environment-friendly products. It does not need to replace the gear oil regularly.

Enhanced safety

The self-checking system as part of the software/hardware design built-in the elevator and drive contol system greatly improve safety of the elevator operation.



1 RELIABLE BRAND

YZER (Machine-room-less elevators)

An innovative elevator which does not require a separate machine room.

YZER
MRL ELEVATOR

High space efficiency

The thinner control panel and compact gearless traction machine eliminate the need for a separate machine room because the system is so compact it can be located at any floor or on hoistway wall.

More flexible architectural design

The building roof line can be enhanced due to the elimination of the conventional penthouse type machine room. It enables a free layout of hoistway position as the machine room is not necessary.

Reduction of building cost

Expenses for the construction of machine room as well as the completion time of building work can be reduced as the machine room is not necessary.

Compact gearless traction machine

By using gearless traction machine with permanent magnet synchronous motor, it provides smoother ride, improved energy-saving, and environment friendly features.

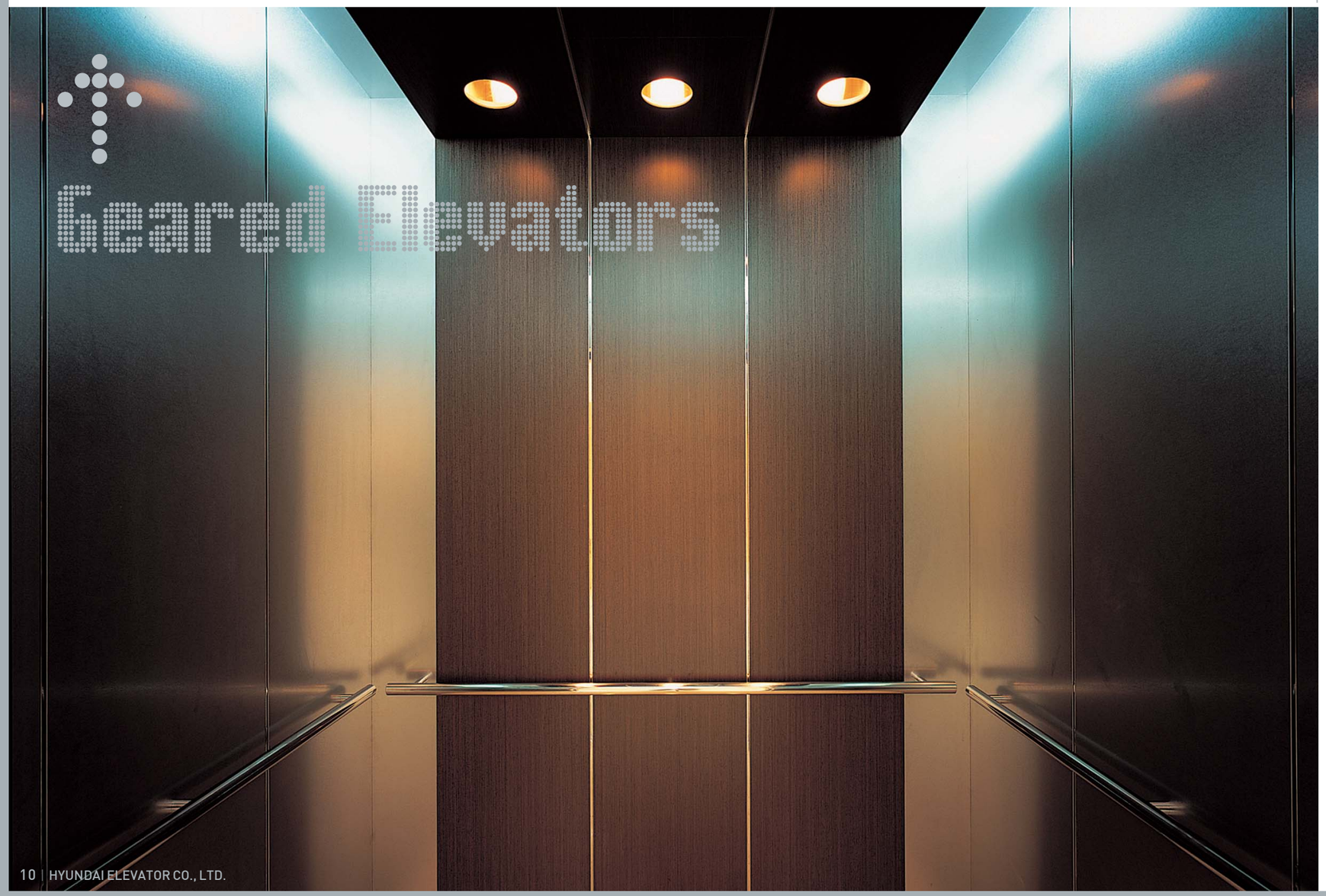
Enhanced safety

The self-checking system as part of the software/hardware design built-in the elevator and drive contol system greatly improve safety of the elevator operation.



Geared Traction Elevators

The hightest efficiency is achieved through the optimal combination of voltage and frequency, the latest and most advanced VVVF technology of electric power supply to the induction motor.



Extremely smooth riding comfort & accurate landing

Using computer control for acceleration and deceleration the riding comfort is improved.

Enhanced safety

The self-checking system as part of the software/hardware design built-in the elevator and drive contol system greatly improve safety of the elevator operation.

Compact design

Minimized control panel enables to reduce installation costs.



| FRONT VIEW |

| REAR VIEW |

SA-3S

| CAGE DESIGN |

Ceiling	CD597A, Painted Steel (P021), Skylite 10T, Indirect Lighting
Wall	Hairline-Finished Stainless Steel, Hairline Etched Stainless Steel (SE1172)
Car Doors	Hairline Etched Stainless Steel (SE1172)
Operating Panel	OPP-N241B / OPP-N241W (Hairline-Finished Stainless Steel)
Indicator	PI-D110
Handrail	Stainless Steel 1 Pipe / Polished (1B)
Flooring	Sense Tile (TN2402C)

Notes : 1. Finished product may vary slightly from these prints.
2. The price will vary depending on the customer's specification.
3. The split may vary depending on the capacity.

| FRONT VIEW |

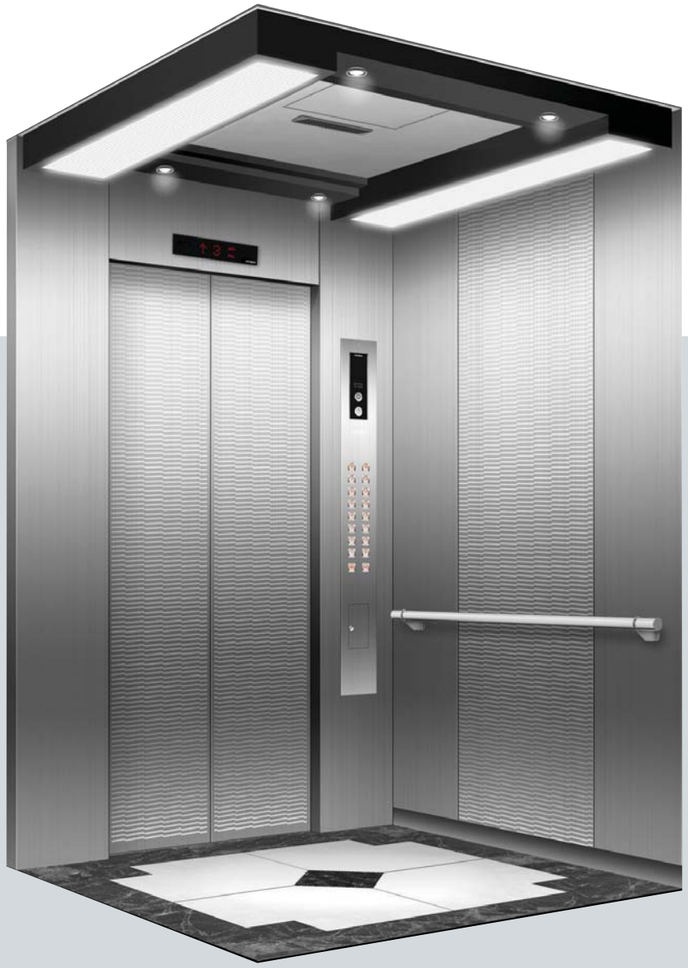
| REAR VIEW |

SE-3S

| CAGE DESIGN |

Ceiling	CD451B, Acryl, Acryl Lens, Painted Steel (P022)
Wall	Hairline Etched Stainless Steel (SE1169)
Car Doors	Hairline Etched Stainless Steel (SE1169)
Operating Panel	OPP-N240B
Indicator	PI-D600
Handrail	Stainless Steel 1 Pipe (1A)
Flooring	Polyvinyl Tile (TN2401C, TN2406C)

Notes : 1. Finished product may vary slightly from these prints.
2. The price will vary depending on the customer's specification.
3. The split may vary depending on the capacity.



| FRONT VIEW |

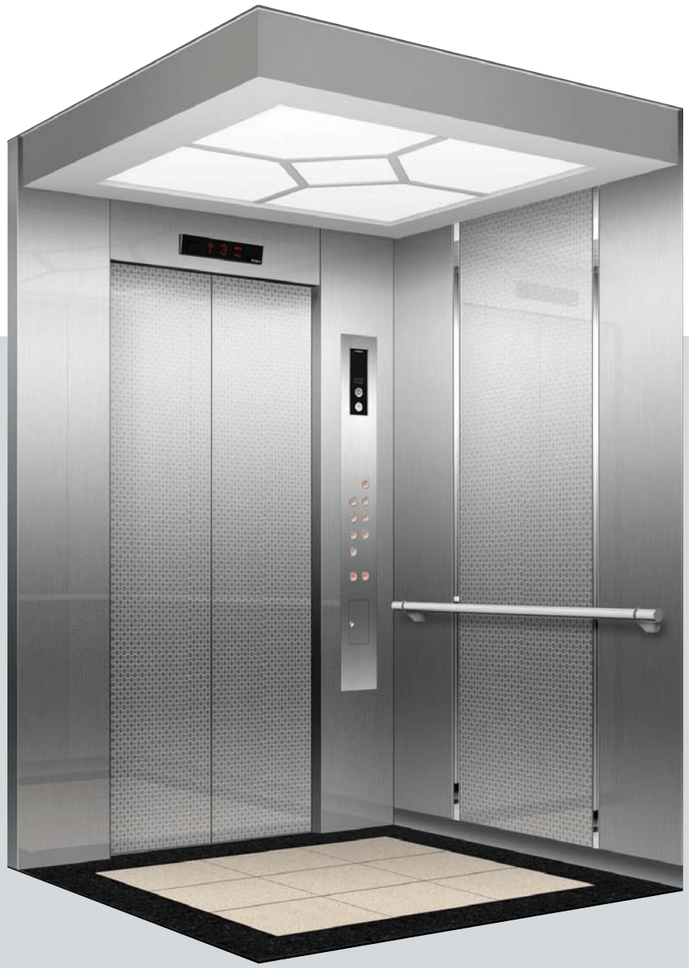
| REAR VIEW |

SE-3B

| CAGE DESIGN |

Ceiling	CD253A, Painted Steel (P021, P022), Skylite 10T, LED Down Light
Wall	Hairline Etched Stainless Steel (SE1168), Hairline-Finished Stainless Steel
Car Doors	Hairline Etched Stainless Steel (SE1168)
Operating Panel	OPP-N240B / OPP-N240W (Hairline-Finished Stainless Steel)
Indicator	PI-D110
Handrail	Stainless Steel 1 Pipe + Coated Crome Bracket (1B)
Flooring	Polyvinyl Tile (DTE2241, DTE2246)

Notes : 1. Finished product may vary slightly from these prints.
2. The price will vary depending on the customer's specification.
3. The split may vary depending on the capacity.



| FRONT VIEW |

| REAR VIEW |

SE-3S

| CAGE DESIGN |

Ceiling	CD291C, Acryl, Painted Steel (P021)
Wall	Mirror-Trimmed Stainless Steel, Hairline Etched Stainless Steel (SE1673)
Car Doors	Hairline Etched Stainless Steel (SE1673)
Operating Panel	OPP-N241B
Indicator	PI-D110
Handrail	Stainless Steel 1 Pipe + Coated Crome Bracket (1B)
Flooring	Polyvinyl Tile (TN2422C, TN2601C)

Notes : 1. Finished product may vary slightly from these prints.
2. The price will vary depending on the customer's specification.
3. The split may vary depending on the capacity.

| FRONT VIEW |

| REAR VIEW |

SS-HM

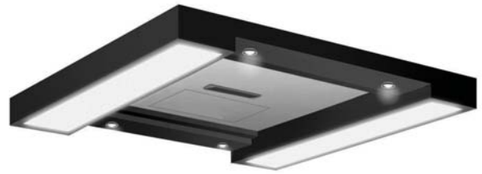
| CAGE DESIGN |

Ceiling	CD251A, Painted Steel (P022), Acryl, Convective Air Sterilization System
Wall	Hairline-Finished Stainless Steel, Mirror-Etched Stainless Steel (SE1184)
Car Doors	Mirror-Etched Stainless Steel (EE008)
Operating Panel	OPP-N241B (Mirror-Finished Stainless Steel)
Indicator	PI-D110 (Dot Type)
Handrail	Stainless Steel 1 Pipe + Aluminum die casting (1A)
Flooring	Marble

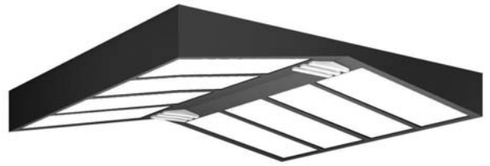
Notes : 1. Finished product may vary slightly from these prints.
2. The price will vary depending on the customer's specification.
3. The split may vary depending on the capacity.

Ceiling

CD251A
(P022 / Acryl / Convective Air Sterilization System)



CD253A
(P021, P022 / Skylite 10T / LED Down Light)



CD451B
(P022)

CD516B
(Indirect Lighting / Convective Air Sterilization System)

CD519D
(Indirect Lighting / Aluminium Silver /
Convective Air Sterilization System)

CD597A
(P007, Lusterless White / Skylite 10T / Indirect Lighting)

LED Ceiling

CD299B
(P023 / LED Lighting(Daylight) / LED Down Light /
Skylight / Anion Air Cleaner)

Sectional View

CD569A
(Aluminium / Acryl / Sheet / LED Lighting(Daylight) / Anion Air Cleaner)

Sectional View

Notes : 1. Finished product may vary slightly from these prints.
2. The color of painted steel sheet can be changed according to the car wall color.
3. If car wall is stainless steel, P019 is recommended. The other materials need to be specified separately.

Car Operating Panels


OPP-N240B


OPP-D241B


OPP-N260A


OPP-N270A


OPP-N280A

Position Indicators


PI-D110 (Dot Matrix Type)


PI-D400 (Dot Matrix Type)


PI-D600 (Dot Matrix Type)


PI-S100 (Dot Matrix Type)

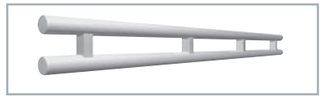
Handrail


FL (Stainless Hairline Flat Bar)


1C (1 Pipe Stainless Hairline, Chrome Bracket)


IDV (Antiviral 1 Pipe, Ivory)


1R (1 Pipe Stainless Polished)


* **2R** (2 Pipe Stainless Polished)


IDW (Antiviral 1 Pipe, Wood Sheet)

Notes : 1. * means optional feature. 2. Finished product may vary slightly from these prints. 3. If one of the above handrails is applied for the disabled elevators, FL and 2R are not available.

Hall Buttons


HPB-344


HPB-342


HPB-240


HIP-D240


HPB-841 (Boxless Type)


HIP-D841 (Boxless Type)


HPB-640 (Boxless Type)


HIP-D640 (Boxless Type)

Notes : 1. Finished product may vary slightly from these prints.
2. Boxless Type - 90type button cannot be applied.
3. If card key system is applied, please select the box type hall button as card key system can not be applied on boxless hall button.

Buttons


40 Type


41 Type


60 Type


70 Type


80 Type

Remote Elevator Calling Button (Optional)


HBI-12T (Box Type)


HBI-64A (Boxless Type)

To minimize waiting time at a special floor, a special car calling button can be installed in an office (e.g. Secretary for a CEO office) or in a penthouse (e.g. Penthouse for Executives or Government Officials or Special Guests) or in a high-rise apartment.

HELIAS(Destination Selecting System)

By grouping passengers having the same target floor to the same elevator, it will save energy and increase system efficiency.


HTK-B03


HTK-B02 (Push Type)


HTK-A01

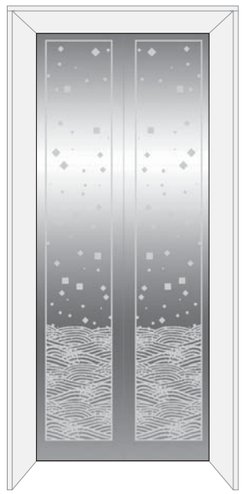

HTL-A01 (LCD Type)


HTK-C01

Notes : Finished product may vary slightly from these prints.

Entrance (Etching)

EE001
(SE695)

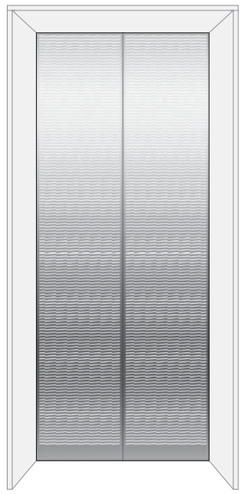


EE002
(SE692)

EE003
(SE691)

EE005
(SE614)

EE006
(SE743)



EE007
(SE1168)

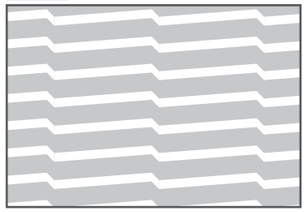
EE008
(SE1171)

EE009
(SE1172)

Notes : 1. It's different from actual size.
2. ■ : Emboss pattern □ : Intaglio Pattern
3. If the above etching patterns are applied for fire protection doors, the left door is 20 mm bigger than the right one. Consult Hyundai.
4. Etching patterns shown above are available for car doors and entrance doors.
5. For entrance opening, EE002, EE003, EE008 are not applied.

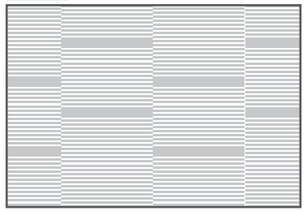
Etching

BEST 1



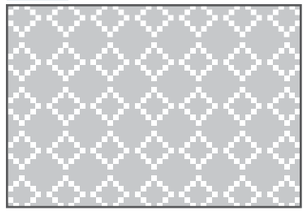
SE1168

BEST 2

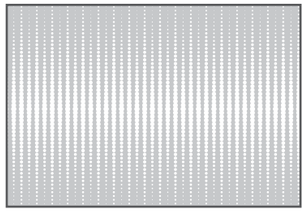


SE1169

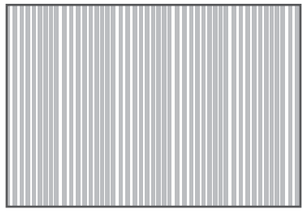
BEST 3



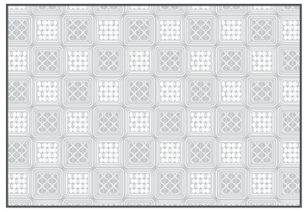
SE1172



SE2304



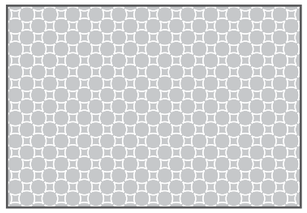
SE2302



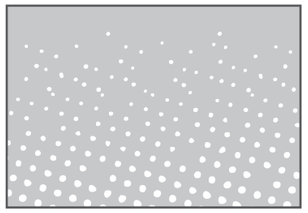
SE2303

SE1590

SE1591 (Line 1 mm, Gap 8mm)

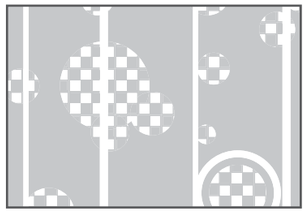


SE1673

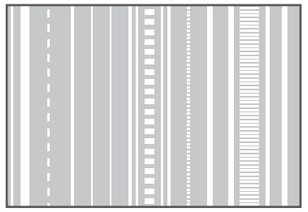


SE2301

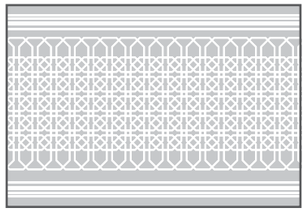
SE2306



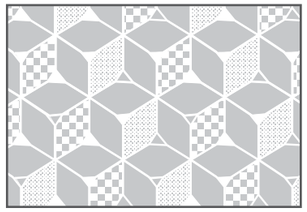
SE2309



SE2310



SE2311



SE2312

Notes : 1. It's different from actual size.
2. ■ : Emboss pattern □ : Intaglio Pattern

Paint Color


P003 (2.3Y 8.5/2.5)


P006 (2.5GY 7/12)


P008 (8.5YR 7.1/12.5)


P009 (4.5B 7.8/2.0)


P011 (4.1R 4.3/12.8)


P012 (2.3PB 4.5/9.6)


P016 (9.9YR 5.0/3.1)


P017 (6.7Y 8.7/2.0)


P019 (5.1Y 7.6/1.1)


P020 (Metallic Gold)


P021 (Metallic Silver)


P022 (Black)

Note : Finished product may vary slightly from these prints.

Polyvinyl Tile


DTE2109

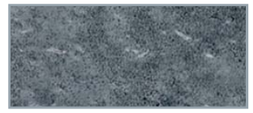

DTE2115


DTE2126


DTE2241


DTE2246


DTE2402

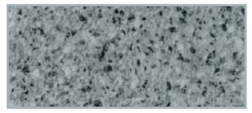

DTE2412


DTE2417

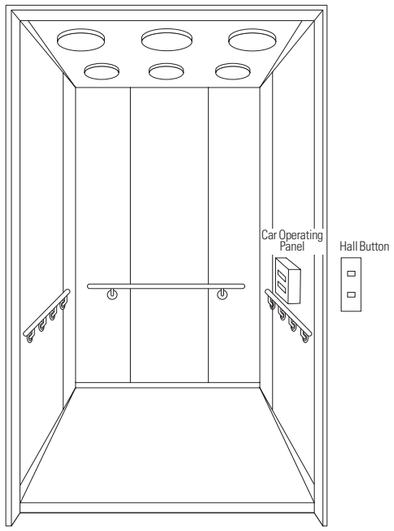

TN2230C


TN2233C


TN2601C


TN2604C

Note : Finished product may vary slightly from these prints.



Car Operating Panels

OPP-N240W

Note : Finished product may vary slightly from these prints.

Type of Buttons

40 TYPE

41 TYPE

Hall Buttons

HIP-D240
(Box Type)

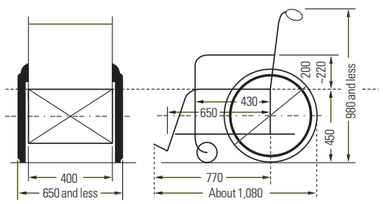
HIP-D641
(Boxless Type)


HPB-240
(Box Type)

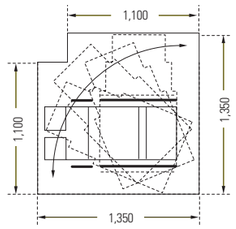

HPB-641
(Boxless Type)

Reference Data (Wheelchair)

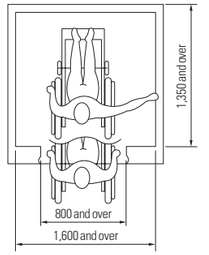
(Unit : mm)



Rear/Side View



Required Space (if rotated 90-degrees)



Car and Door Size

Standard & Optional Features

Standard

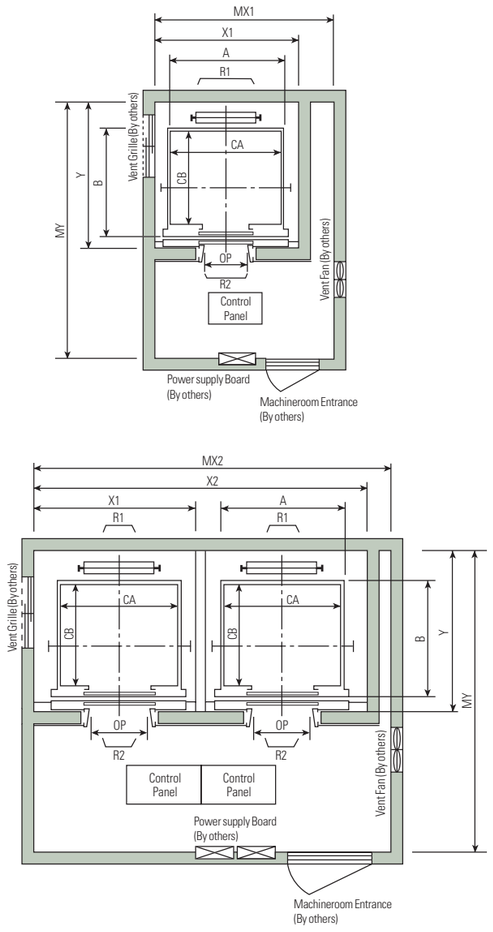
	Items	Descriptions
Efficient	Simplex Selective Collective Operation	The whole operation process is automatically carried out by the calls registered.
	Car Call Cancellation	Allows cancellation of an incorrectly registered car call. If you push a wrong floor button in the car, you can cancel it by pressing the registered button one more time.
	Door Open/Close Time Adjustment	Door open and close are automatically adjusted depending on whether the car is a hall call or a car call to increase the operating efficient.
	Automatic Car Light & Fan Turn-off	Car illumination and fan are turned off automatically in case there is no hall call or car call to save energy.
Safety	Car Door Safety Edge with Single Side	Extending the full height of the car door, this device causes the doors to return to the fully open position should the door encounter a person or obstacle while closing.
	Landing Door Interlock Switch	In case on opening the door, the switch installed at the door operator is activated and keeps the car from moving. During the operation of car, it locks the door completely so as not to open the door from out side.
	Overload Holding Stop	When the load of passengers exceeds the maximum capacity, a buzzer sounds and the remains stopped at that floor. When the passengers get off, the buzzer will stop. Consequently elevator doors will close and operation continues.
	Emergency Lighting Feature	In case of main power failure, the emergency light will turn on automatically and maintain a period of time.
	Interphone(Intercom)	Provide emergency communication between passengers in the car, the machine room or building personnel in security or maintenance room.
	Micro Leveling	An automatic two-way leveling device is provided to maintain the elevator car level with the landing, regardless of elevator load or direction travel.
	Safety Drive Operation	During the normal operation, If the car stops between floors and safety device doesn't work, the car automatically moves to the nearest floor with the low speed. Then, it opens the door to allow the passengers to exit off.
	Automatic by Pass	When a car is 80% loaded, it will automatically by pass all hall calls as the by pass load weighting device is activated.

Option

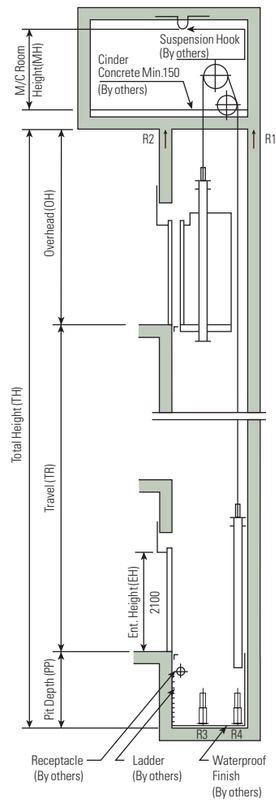
	Items	Descriptions
Efficient	Duplex Selective Collective Operation	Two units of elevator provide the effective service for the common hall calls.
	N-PLEX Operation (Group control)	3~8 units of elevator provide the effective service for the common or dual hall calls by combining each other systematically.
	DSS(Destination Selection System)	Register destination floor before entering car, allowed elevator will be displayed. Passengers could reach their destination floor in shortest time without pushing button in control operation panel.
Efficient	Attendant Operation	The operating mode of an elevator can be changed from the normal automatic operation to the attendant service by an attendant switch on COP.
	Voice Synthesizer	Provide to riding passengers with audio information about car operation such as direction of ride, landing floor, emergency, etc.
	Anti-nuisance Operation	In case of substantial difference between the number of calls registered on the car operating panel and actual load in the elevator, the elevator prevents unnecessary operation by canceling all registered calls when it arrives at the nearest floor.
	Hold Door Closing	In case of register the door holder button, the car wait with opened door during the time that the program.
	Parking Operation	The elevator can be automatically parked at the predetermined floor with its doors closed, and the lights and ventilation will be turned off as well.
	VIP Operation	A specified car can be withdrawn from group control and carries out independent operation in accordance with the hall call for VIP.
	Air-cleaning System On Ceiling	Something in the air of dust and bacteria to clean the air filter out of the system to provide a more comfortable environment for service.
Safety	Multi-beam Device For Car Door	Multi-beam from the top of the door to the bottom of the door senses any obstruction caught in the door. It makes the door re-open, or keep open/close before the door touches such obstruction.
	Supervisory Monitoring & Control With Computer	To monitor and control the elevator operation such as including floor, running direction, door opening, over load, fire alarm, fault and all elevator status by PC system.
	ELD (Emergency Landing Device)	In case of power failure, when the building has no emergency power supply, the elevator is sent to the nearest floor by power of rechargeable battery to prevent passengers from being trapped in the car.
	Emergency Fire Operation	In case of fire, every car should be returned to the specified floor in order to evacuate passengers to safety.
	Emergency Fireman's Service	In case of fire, fireman can use the elevator which is stopped at the specified floor in order to support fireman of fire-fighting.
	Emergency Power Operation	When power off, receive power from buildings generator, and operate according to procedure of generator.
	Emergency Earthquake Operation	The earthquake sensor detects whether the earthquakes occur or not, When earthquakes occur, the device forces the elevator to stop at the nearest floor with door fully open, and the elevator can't operate any more.

Note : Consult Hyundai if you need the specific features except the above items.

Plan of Hoistway & Machine Room



Section of Hoistway



Overhead & Pit Depth

(Unit : mm)

Load (kg)	450 ~ 1000		1150 ~ 1600		M/C Room Height (MH)
Speed (m/sec)	Overhead (OH)	Pit Depth (PP)	Overhead (OH)	Pit Depth (PP)	
1.0	4200	1300	4200	1400	2200
1.5	4400	1400	4400	1500	2400
1.75	4500	1500	4500	1600	
2.0	4700	1900	4700	2000	2600
2.5	5000	2200	5000	2200	

Notes : 1. Above dimentions are applied for car height of 2500mm, for other applicable dimensions, contact us.
2. In case of requested double isolation pad, machine room height should be increased 200mm.
3. Machine room temperature should be maintained below 40 °C with ventilating fan and/or air conditioner (if necessary) and humidity below 90%.

Standard Dimensions & Reactions

Manufacturer Standard

(Unit : mm)

Speed (m/sec)	Capacity		Opening Type	Clear Opening	Car		Hoistway Size			Machine Room Size			M/C Room Reaction (kg)		Pit Reaction (kg)	
					Internal	External	1Car	2Cars	Depth	1Car	2Cars	Depth				
	Persons	kg		OP	CA × CB	A × B	X1	X2	Y	MX1	MX2	MY	R1	R2	R3	R4
1.0	6	450	2 Panel Center Open	800	1400 x 850	1460 x 1005	1800	3700	1450	2000	4000	3200	3600	2000	5400	4500
	8	550		800	1400 x 1030	1460 x 1185	1800	3700	1650	2000	4000	3400	4050	2250	6000	4900
	9	600		800	1400 x 1130	1460 x 1285	1800	3700	1750	2000	4000	3500	4100	2450	6300	5100
	10	700		800	1400 x 1250	1460 x 1405	1800	3700	1850	2000	4000	3600	4200	2700	6800	5400
	11	750		800	1400 x 1350	1460 x 1505	1800	3700	1950	2000	4000	3700	4550	2800	7100	5600
1.5	13	900		900	1600 x 1350	1660 x 1505	2050	4200	1950	2300	4400	3750	5100	3750	8100	6300
	15	1000		900	1600 x 1500	1660 x 1655	2050	4200	2100	2300	4400	3850	5450	4300	8600	6600
1.75	17	1150		1000	1800 x 1500	1900 x 1670	2350	4800	2200	2600	4900	3900	6600	5100	11000	8700
				1100	2000 x 1350	2100 x 1520	2550	5200	2050	2800	5250	3800				
	20	1350		1000	1800 x 1700	1900 x 1870	2350	4800	2400	2600	4900	4200	7800	6000	12200	9500
				1100	2000 x 1500	2100 x 1670	2550	5200	2200	2800	5250	4000				
	24	1600		1100	2000 x 1750	2100 x 1920	2550	5200	2450	2900	5400	4300	8500	6800	13600	10400
					2150 x 1600	2250 x 1770	2700	5500	2300	3000	5650	4200				
2.0	13	900		900	1600 x 1350	1700 x 1520	2250	4600	2100	2550	4600	4250	12030	6650	9000	7500
	15	1000		900	1600 x 1500	1700 x 1670	2250	4600	2250	2550	4600	4250	12800	6950	9400	8000
	17	1150		1000	1800 x 1500	1900 x 1670	2450	5000	2250	2750	5000	4450	13080	7150	11000	8700
				1100	2000 x 1350	2100 x 1520	2650	5400	2100	2950	5400	4650				
2.5	20	1350		1000	1800 x 1700	1900 x 1870	2450	5000	2450	2750	5000	4450	14350	7650	12200	9500
				1100	2000 x 1500	2100 x 1670	2650	5400	2250	2950	5400	4650				
	24	1600		1100	2000 x 1750	2100 x 1920	2650	5400	2500	2950	5400	4650	15100	8100	13600	10400
					2150 x 1600	2250 x 1770	2800	5700	2350	3100	5700	4800				

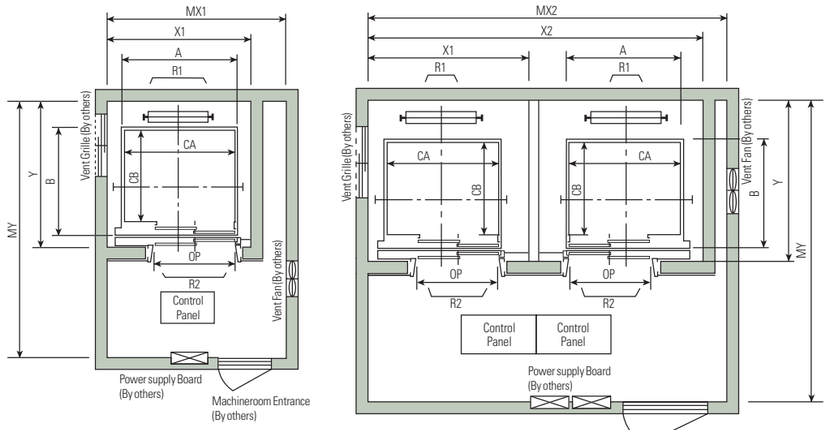
EN81 Standard

(Unit : mm)

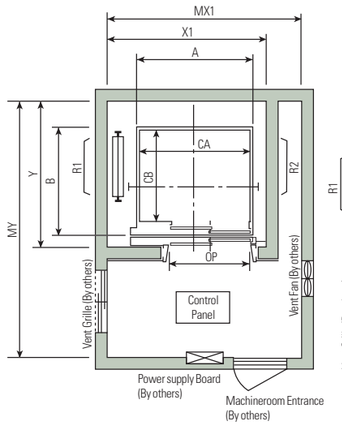
Speed (m/sec)	Capacity		Opening Type	Clear Opening	Car		Hoistway Size			Machine Room Size			M/C Room Reaction (kg)		Pit Reaction (kg)	
					Internal	External	1Car	2Cars	Depth	1Car	2Cars	Depth				
	Persons	kg		OP	CA × CB	A × B	X1	X2	Y	MX1	MX2	MY	R1	R2	R3	R4
1.0	6	450	2 Panel Center Open	700	1100 x 1100	1160 x 1250	1550	3200	1700	1800	3500	3450	3600	2000	5400	4500
				800	1400 x 850	1460 x 1005	1800	3700	1450	2000	4000	3200				
	7	550		800	1400 x 1030	1460 x 1185	1800	3700	1650	2000	4000	3400	4050	2250	6000	4900
	8	630		800	1400 x 1100	1460 x 1255	1800	3700	1700	2000	4000	3450	4100	2450	6300	5100
	9	700		800	1400 x 1250	1460 x 1405	1800	3700	1850	2000	4000	3600	4200	2700	6800	5400
	10	800		800	1400 x 1350	1460 x 1505	1800	3700	1950	2000	4000	3700	4550	2800	7100	5600
1.5	12	900		900	1600 x 1300	1660 x 1455	2050	4200	1900	2300	4400	3700	5100	3750	8100	6300
	13	1000		900	1600 x 1400	1660 x 1555	2050	4200	2000	2300	4400	3700	5450	4300	8600	6600
1.75	15	1150		1000	1800 x 1400	1900 x 1570	2350	4800	2100	2600	4900	3800	6600	5100	11000	8700
				1100	2000 x 1300	2100 x 1470	2550	5200	2000	2800	5250	3750				
	18	1350		1000	1800 x 1650	1900 x 1820	2350	4800	2350	2600	4900	4150	7800	6000	12200	9500
				1100	2000 x 1500	2100 x 1670	2550	5200	2200	2800	5250	4000				
	21	1600		1100	2000 x 1700	2100 x 1870	2550	5200	2400	2900	5400	4250	8500	6800	13600	10400
					2150 x 1600	2250 x 1770	2700	5500	2300	3000	5650	4200				
2.0	10	800		800	1400 x 1350	1500 x 1520	2050	4200	2100	2350	4200	4100	10500	6400	8200	7300
	12	900		900	1600 x 1300	1700 x 1470	2250	4600	2050	2550	4600	4050	12030	6650	9000	7500
	13	1000		900	1600 x 1400	1700 x 1570	2250	4600	2150	2550	4600	4150	12800	6950	9400	8000
	15	1150		1000	1800 x 1500	1900 x 1670	2450	5000	2250	2750	5000	4450	13080	7150	11000	8700
				1100	2000 x 1350	2100 x 1520	2650	5400	2100	2950	5400	4650				
2.5	18	1350		1000	1800 x 1700	1900 x 1870	2450	5000	2450	2750	5000	4450	14350	7650	12200	9500
				1100	2000 x 1500	2100 x 1670	2650	5400	2250	2950	5400	4650				
	21	1600		1100	2000 x 1750	2100 x 1920	2650	5400	2500	2950	5400	4650	15100	8100	13600	10400
					2150 x 1600	2250 x 1770	2800	5700	2350	3100	5700	4800				

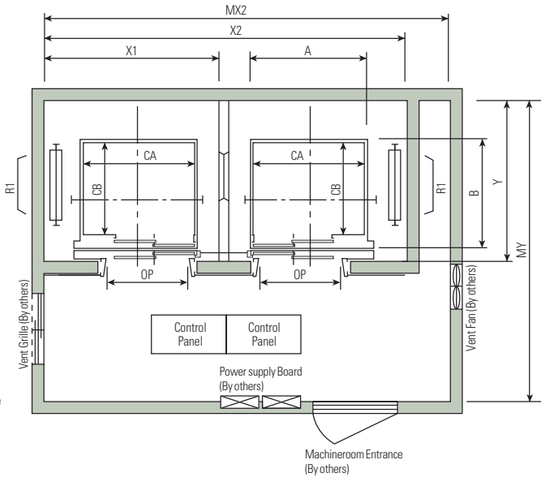
Plan of Hoistway & Machine Room

Rear Drop

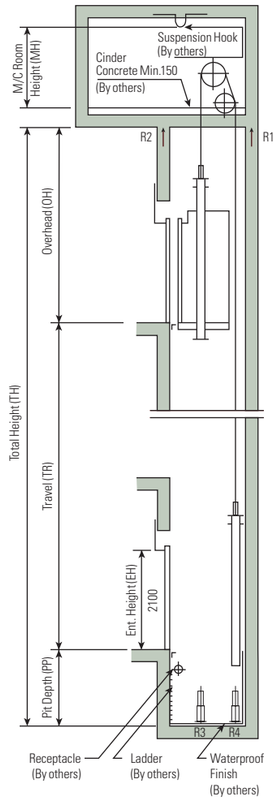


Side Drop





Section of Hoistway



Overhead & Pit Depth

(Unit : mm)

Load (kg)	450 ~ 1000		1150 ~ 1600		M/C Room Height (MH)
Speed (m/sec)	Overhead (OH)	Pit Depth (PP)	Overhead (OH)	Pit Depth (PP)	
1.0	4200	1300	4200	1400	2200
1.5	4400	1400	4400	1500	2400
1.75	4500	1500	4500	1600	
2.0	4700	1900	4700	2000	2600
2.5	5000	2200	5000	2200	

Notes : 1. Above dimentions are applied for car height of 2500mm, for other applicable dimensions, contact us.
2. In case of requested double isolation pad, machine room height should be increased 200mm.
3. Machine room temperature should be maintained below 40 °C with ventilating fan and/or air conditioner (if necessary) and humidity below 90%.

Standard Dimensions & Reactions

Manufacturer Standard

(Unit : mm)

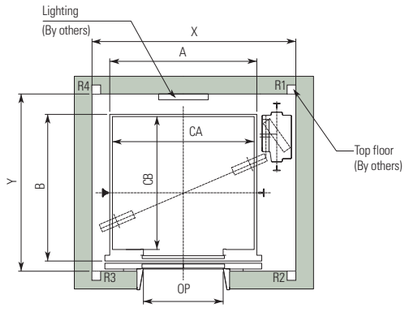
Speed (m/sec)	Capacity		Opening Type	Clear Opening	C.WT Drop	Car		Hoistway Size			Machine Room Size			M/C Room Reaction (kg)		Pit Reaction (kg)	
						Internal	External	1Car	2Cars	Depth	1Car	2Cars	Depth				
	Persons	kg		OP		CA × CB	A × B	X1	X2	Y	MX1	MX2	MY	R1	R2	R3	R4
1.0	6	450	2 Panel Side Open	800	Rear	1100 x 1100	1160 x 1292	1550	3200	1800	1800	3500	3600	3600	2000	5400	4500
	8	550		800	Rear	1100 x 1250	1160 x 1442	1550	3200	1950	1800	3500	3750	4050	2250	6000	4900
	9	600		800	Rear	1100 x 1400	1160 x 1592	1550	3200	2100	1800	3500	3900	4100	2450	6300	5100
				900	Rear	1400 x 1100	1460 x 1292	1800	3700	1800	2000	4000	3600				
1.5	10	700		800	Side	1100 x 1600	1160 x 1792	1850	3700	2050	2000	4000	3800	4200	2700	6800	5400
	11	750		900	Side	1100 x 1650	1160 x 1842	1850	3700	2100	2000	4000	3900	4550	2800	7100	5600
	13	900		900	Side	1100 x 2000	1160 x 2192	1850	3700	2500	2000	4000	4300	5100	3750	8100	6300
1.75	15	1000		900	Side	1100 x 2100	1160 x 2292	1850	3700	2550	2000	4000	4350	5450	4300	8600	6600
				1100	Rear	2100 x 1100	2160 x 1292	2550	5200	1800	2550	5200	3600				
	17	1150		1000	Side	1200 x 2200	1300 x 2407	2100	4300	2650	2100	4300	4400	6600	5100	11000	8700
	20	1350		1100	Side	1300 x 2300	1400 x 2507	2250	4600	2750	2250	4600	4500	7800	6000	12200	9500
	24	1600		1200	Side	1500 x 2300	1600 x 2507	2450	5000	2750	2450	5000	4500	8500	6800	13600	10400
2.0	13	900		900	Side	1200 x 1800	1300 x 2007	2200	4500	2250	2500	4500	4300	12030	6650	9000	7500
	15	1000		900	Side	1200 x 1900	1300 x 2107	2200	4500	2350	2500	4500	4400	12800	6950	9400	8000
				1000	Rear	1600 x 1500	1700 x 1707	2250	4600	2300	2550	4600	4400	12800	6950	9400	8000
	17	1150		1000	Side	1200 x 2200	1300 x 2407	2200	4500	2650	2500	4500	4700	13080	7150	11000	8700
				1100	Rear	2000 x 1350	2100 x 1557	2650	5400	2150	2950	5400	4200				
2.5	20	1350		1000	Side	1300 x 2300	1400 x 2507	2300	4700	2750	2600	4700	4800	14350	7650	12200	9500
				1100	Rear	2000 x 1500	2100 x 1707	2650	5400	2300	2950	5400	4400				
	24	1600		1100	Side	1500 x 2300	1600 x 2507	2500	5100	2750	2800	5100	4800	15100	8100	13600	10400
				1200	Rear	2100 x 1650	2200 x 1857	2750	5600	2450	3050	5600	4500				

EN81 Standard

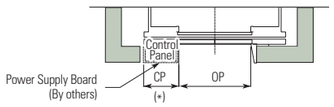
(Unit : mm)

Speed (m/sec)	Capacity		Opening Type	Clear Opening	C.WT Drop	Car		Hoistway Size			Machine Room Size			M/C Room Reaction (kg)		Pit Reaction (kg)	
						Internal	External	1Car	2Cars	Depth	1Car	2Cars	Depth				
	Persons	kg		OP		CA × CB	A × B	X1	X2	Y	MX1	MX2	MY	R1	R2	R3	R4
1.0	6	450	2 Panel Side Open	800	Rear	1100 x 1100	1160 x 1292	1550	3200	1800	1800	3500	3600	3600	2000	5400	4500
	7	550		800	Rear	1100 x 1250	1160 x 1442	1550	3200	1950	1800	3500	3750	4050	2250	6000	4900
	8	630		800	Rear	1100 x 1400	1160 x 1592	1550	3200	2100	1800	3500	3900	4100	2450	6300	5100
				900	Rear	1400 x 1100	1460 x 1292	1800	3700	1800	2000	4000	3600				
1.5	9	700		800	Side	1100 x 1600	1160 x 1792	1850	3700	2050	2000	4000	3800	4200	2700	6800	5400
	10	800		900	Side	1100 x 1650	1160 x 1842	1850	3700	2100	2000	4000	3900	4550	2800	7100	5600
	12	900		900	Side	1100 x 2000	1160 x 2192	1850	3700	2500	2000	4000	4300	5100	3750	8100	6300
1.75	13	1000		900	Side	1100 x 2100	1160 x 2292	1850	3700	2550	2000	4000	4350	5450	4300	8600	6600
				1100	Rear	2100 x 1100	2160 x 1292	2550	5200	1800	2550	5200	3600				
	15	1150		1000	Side	1200 x 2200	1300 x 2407	2100	4300	2650	2100	4300	4400	6600	5100	11000	8700
	18	1350		1100	Side	1300 x 2300	1400 x 2507	2250	4600	2750	2250	4600	4500	7800	6000	12200	9500
	21	1600		1200	Side	1400 x 2400	1500 x 2607	2350	5000	2850	2450	5000	4600	8500	6800	13600	10400
2.0	12	900		900	Side	1200 x 1800	1300 x 2007	2200	4500	2250	2500	4500	4300	12030	6650	9000	7500
	13	1000		900	Side	1200 x 1900	1300 x 2107	2200	4500	2350	2500	4500	4400	12800	6950	9400	8000
				1100	Rear	1600 x 1400	1700 x 1607	2250	4600	2200	2550	4600	4300	12800	6950	9400	8000
	15	1150		1000	Side	1200 x 2200	1300 x 2407	2200	4500	2650	2500	4500	4700	13080	7150	11000	8700
				1100	Rear	1800 x 1400	1900 x 1607	2450	5000	2200	2750	5000	4300				
2.5	18	1350		1000	Side	1300 x 2300	1400 x 2507	2300	4700	2750	2600	4700	4800	14350	7650	12200	9500
				1100	Rear	2000 x 1500	2100 x 1707	2650	5400	2300	2950	5400	4400				
	21	1600		1200	Side	1400 x 2400	1500 x 2607	2400	4900	2750	2700	4900	4800	15100	8100	13600	10400
					Rear	2100 x 1650	2200 x 1857	2750	5600	2450	3050	5600	4500				

Plan of Hoistway

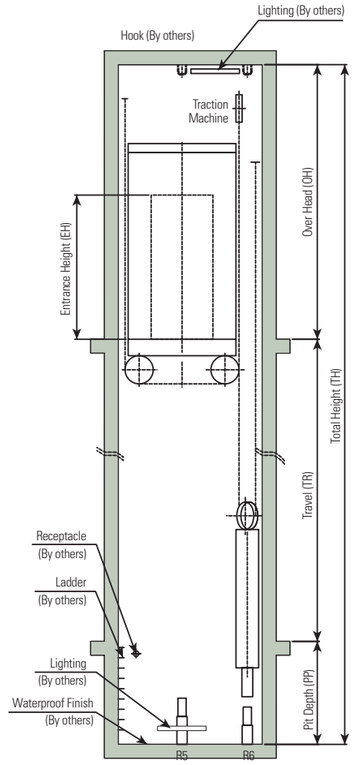


Floor without control panel



Floor with control panel

Section of Hoistway



Overhead & Pit Depth

(Unit : mm)

Duty Load (kg)	Speed (m/s)	Overhead (OH)		Pit Depth (PP)	Control Panel (CP)*
		2 Panel Center Open	2 Panel Side Open		
550 ~1150	1.0	3800	4300	1500	530
	1.5	3900	4400	1800	
	1.75	4000	4500	2100	
900 ~ 1150	2.0	4300	4800	2200	530
	2.5	5100	5600	2400	630
1350 ~ 1600	1.0	4200	4700	1500	530
	1.5	4300	4800	1800	630
	1.75	4500	5000	2100	
	2.0	4800	5300	2200	
	2.5	5100	5600	2400	
1750 ~ 2000	1.0	4400	4900	1750	630
	1.5	4500	5000	1900	
	1.75	4600	5100	2100	
2250 ~ 2500	1.0	5000	5500	1750	630
	1.5	5100	5600	1900	
	1.75	5300	5800	2100	

Notes : 1. Above dimentions are applied for car height of 2500mm and standard car size & opening for other applicable dimensions, please contact us.
2. In case of side open or requested wide opening size to compare car width, OH should be increased 500mm.
3. When non-satandard capacites and dimensions are required to meet the local code, please consult us.

Standard Dimensions

Manufacturer Standard

(Unit : mm)

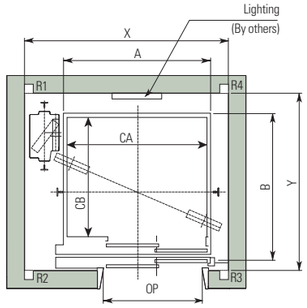
Speed (m/sec)	Capacity		Opening Type	Clear Opening	Car		Hoistway Size		M/C Room Reaction (kg)				Pit Reaction (kg)	
	Persons	kg		OP	CA × CB	A × B	X	Y	R1	R2	R3	R4	R5	R6
1.0	8	550	2 Panel Center Open	800	1300 x 1100	1360 x 1255	2050	1700	4000	2100	1500	600	7000	1600
	9	600		800	1300 x 1190	1360 x 1345	2050	1800	4100	2300	1600	600	7300	1600
	10	700		800	1300 x 1300	1360 x 1455	2050	1800	4500	2300	1700	650	7800	1600
	11	750		800	1300 x 1400	1360 x 1555	2050	1850	4800	2300	1750	700	8100	1700
1.5	13	900		900	1600 x 1300	1660 x 1505	2300	1850	5100	2500	1800	750	9200	1900
	15	1000		900	1600 x 1400	1660 x 1555	2300	1900	5400	2700	1900	800	9800	2000
1.75	17	1150		1000	1800 x 1400	1900 x 1570	2600	2100	6300	3400	2100	900	12500	2500
	20	1350		1000	1800 x 1600	1900 x 1770	2650	2400	7700	4300	2500	1100	13900	3000
	24	1600		1100	2000 x 1700	2100 x 1870	2900	2450	7900	4600	2600	1200	15200	3200
	27	1750		1200	2100 x 1750	2200 x 1920	3000	2500	8600	4300	2900	1300	16700	2800
	30	2000		1200	2100 x 1900	2200 x 2070	3000	2550	9100	4700	3100	1300	19800	3300
	38	2500		1300	2200 x 2200	2300 x 2370	3300	3000	10300	5200	3300	1600	24000	3700
2.0	13	900		900	1600 x 1300	1700 x 1520	2500	2100	5900	3700	1800	900	11200	2300
	15	1000		900	1600 x 1400	1700 x 1670	2600	2100	6100	3900	2200	900	11800	2500
	17	1150		1000	1800 x 1400	1900 x 1670	2700	2100	6600	4200	2300	900	14200	2700
	20	1350		1000	1800 x 1600	1900 x 1870	2700	2400	8200	4600	2600	1200	16500	3100
	24	1600		1100	2000 x 1700	2100 x 1920	2900	2450	8300	4900	2700	1200	17800	3300
2.5	13	900		900	1600 x 1350	1700 x 1520	2500	2250	5900	3700	1800	900	11200	2300
	15	1000		900	1600 x 1400	1700 x 1670	2600	2250	6100	3900	2200	900	11800	2500
	17	1150		1000	1800 x 1400	1900 x 1670	2700	2250	6600	4200	2300	900	14200	2700
	20	1350		1000	1800 x 1600	1900 x 1870	2700	2400	8200	4600	2600	1200	16500	3100
	24	1600		1100	2000 x 1700	2100 x 1920	2900	2450	8300	4900	2700	1200	17800	3300

EN81 Standard

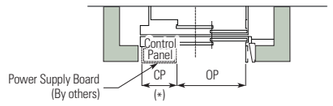
(Unit : mm)

Speed (m/sec)	Capacity		Opening Type	Clear Opening	Car		Hoistway Size		M/C Room Reaction (kg)				Pit Reaction (kg)	
	Persons	kg		OP	CA × CB	A × B	X	Y	R1	R2	R3	R4	R5	R6
1.0	7	550	2 Panel Center Open	800	1300 x 1100	1360 x 1255	2050	1700	4000	2100	1500	600	7000	1600
	8	630		800	1300 x 1190	1360 x 1345	2050	1800	4100	2300	1600	600	7300	1600
	9	700		800	1300 x 1300	1360 x 1455	2050	1800	4500	2300	1700	650	7800	1600
	10	800		800	1300 x 1400	1360 x 1555	2050	1850	4800	2300	1750	700	8100	1700
1.5	12	900		900	1600 x 1300	1660 x 1455	2300	1850	5100	2500	1800	750	9200	1900
	13	1000		900	1600 x 1400	1660 x 1555	2300	1900	5400	2700	1900	800	9800	2000
1.75	15	1150		1000	1800 x 1400	1900 x 1570	2600	2100	6300	3400	2100	900	12500	2500
	18	1350		1000	1800 x 1600	1900 x 1770	2650	2400	7700	4300	2500	1100	13900	3000
	21	1600		1100	2000 x 1700	2100 x 1870	2900	2450	7900	4600	2600	1200	15200	3200
	23	1750		1200	2100 x 1750	2200 x 1920	3000	2500	8600	4300	2900	1300	16700	2800
	26	2000		1200	2100 x 1900	2200 x 2070	3000	2550	9100	4700	3100	1300	19800	3300
	33	2500		1300	2200 x 2200	2300 x 2370	3300	3000	10300	5200	3300	1600	24000	3700
2.0	12	900		900	1600 x 1300	1700 x 1520	2500	2100	5900	3700	1800	900	11200	2300
	13	1000		900	1600 x 1400	1700 x 1670	2600	2100	6100	3900	2200	900	11800	2500
	15	1150		1000	1800 x 1400	1900 x 1670	2700	2100	6600	4200	2300	900	14200	2700
	18	1350		1000	1800 x 1600	1900 x 1870	2700	2400	8200	4600	2600	1200	16500	3100
	21	1600		1100	2000 x 1700	2100 x 1920	2900	2450	8300	4900	2700	1200	17800	3300
2.5	12	900		900	1600 x 1300	1700 x 1520	2500	2250	5900	3700	1800	900	11200	2300
	13	1000		900	1600 x 1400	1700 x 1670	2600	2250	6100	3900	2200	900	11800	2500
	15	1150		1000	1800 x 1400	1900 x 1670	2700	2250	6600	4200	2300	900	14200	2700
	18	1350		1000	1800 x 1600	1900 x 1870	2700	2400	8200	4600	2600	1200	16500	3100
	21	1600		1100	2000 x 1700	2100 x 1920	2900	2450	8300	4900	2700	1200	17800	3300

Plan of Hoistway

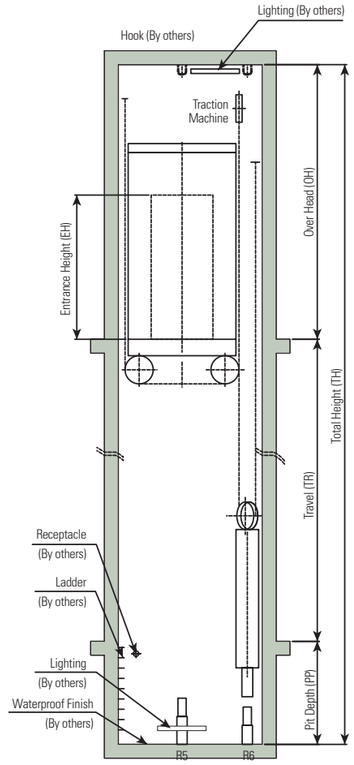


Floor without control panel



Floor with control panel

Section of Hoistway



Overhead & Pit Depth

(Unit : mm)

Duty Load (kg)	Speed (m/s)	Overhead (OH)		Pit Depth (PP)	Control Panel (CP)*
		2 Panel Center Open	2 Panel Side Open		
550 ~1150	1.0	3800	4300	1500	530
	1.5	3900	4400	1800	
	1.75	4000	4500	2100	
900 ~ 1150	2.0	4300	4800	2200	530
	2.5	5100	5600	2400	630
1350 ~ 1600	1.0	4200	4700	1500	530
	1.5	4300	4800	1800	630
	1.75	4500	5000	2100	
	2.0	4800	5300	2200	
	2.5	5100	5600	2400	
1750 ~ 2000	1.0	4400	4900	1750	630
	1.5	4500	5000	1900	
	1.75	4600	5100	2100	
2250 ~ 2500	1.0	5000	5500	1750	630
	1.5	5100	5600	1900	
	1.75	5300	5800	2100	

Notes : 1. Above dimentions are applied for car height of 2500mm and standard car size & opening for other applicable dimensions, please contact us.
2. In case of side open or requested wide opening size to compare car width, OH should be increased 500mm.
3. When non-satandard capacites and dimensions are required to meet the local code, please consult us.

Standard Dimensions

Manufacturer Standard

(Unit : mm)

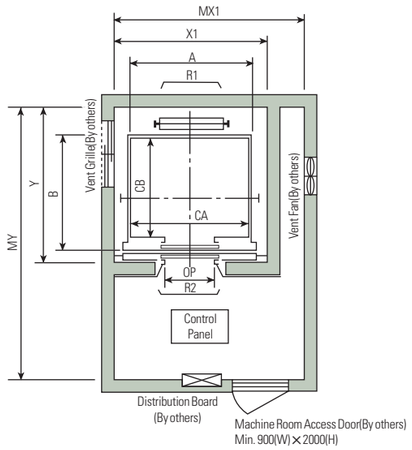
Speed (m/sec)	Capacity		Opening Type	Clear Opening	Car		Hoistway Size		M/C Room Reaction (kg)				Pit Reaction (kg)	
	Persons	kg		OP	CA × CB	A × B	X	Y	R1	R2	R3	R4	R5	R6
1.0	8	550	2 Panel Side Open	800	1100 x 1300	1160 x 1492	1800	1850	4000	2100	1500	600	7000	1600
	9	600		800	1100 x 1400	1160 x 1592	1800	1900	4100	2300	1600	600	7300	1600
	10	700		800	1200 x 1400	1260 x 1592	1900	1900	4500	2300	1700	650	7800	1600
	11	750		800	1300 x 1400	1360 x 1592	2000	1900	4800	2300	1750	700	8100	1700
	13	900		900	1300 x 1600	1360 x 1792	2000	2100	5100	2500	1800	750	9200	1900
1.5	15	1000		900	1100 x 2100	1160 x 2292	1800	2550	5400	2700	1900	800	9800	2000
				1200	2100 x 1100	2160 x 1292	2800	1750	5400	2700	1900	800	9800	2000
1.75	17	1150		1000	1200 x 2200	1300 x 2407	2000	2700	6300	3400	2100	900	12500	2500
	20	1350		1000	1300 x 2300	1400 x 2507	2200	2800	7700	4300	2500	1100	13900	3000
	24	1600		1100	1500 x 2300	1600 x 2507	2400	2800	7900	4600	2600	1200	15200	3200
	27	1750		1200	1600 x 2300	1700 x 2507	2500	2800	8600	4300	2900	1300	16700	2800
	30	2000		1200	1500 x 2700	1600 x 2907	2400	3200	9100	4700	3100	1300	19800	3300
	38	2500		1300	1800 x 2700	1900 x 2907	2900	3200	10300	5200	3300	1600	24000	3700
2.0	13	900		900	1300 x 1600	1400 x 1807	2200	2250	5900	3700	1800	900	11200	2300
	15	1000		900	1300 x 1750	1400 x 1957	2200	2450	6100	3900	2200	900	11800	2500
	17	1150		1000	1200 x 2200	1300 x 2407	2100	2700	6600	4200	2300	900	14200	2700
	20	1350		1000	1300 x 2300	1400 x 2507	2200	2800	8200	4600	2600	1200	16500	3100
	24	1600		1100	1500 x 2300	1600 x 2507	2400	2800	8300	4900	2700	1200	17800	3300
2.5	13	900		900	1300 x 1600	1400 x 1807	2200	2250	5900	3700	1800	900	11200	2300
	15	1000		900	1300 x 1750	1400 x 1957	2200	2450	6100	3900	2200	900	11800	2500
	17	1150		1000	1200 x 2200	1300 x 2407	2100	2700	6600	4200	2300	900	14200	2700
	20	1350		1000	1300 x 2300	1400 x 2507	2200	2800	8200	4600	2600	1200	16500	3100
	24	1600		1100	1500 x 2300	1600 x 2507	2400	2800	8300	4900	2700	1200	17800	3300

EN81 Standard

(Unit : mm)

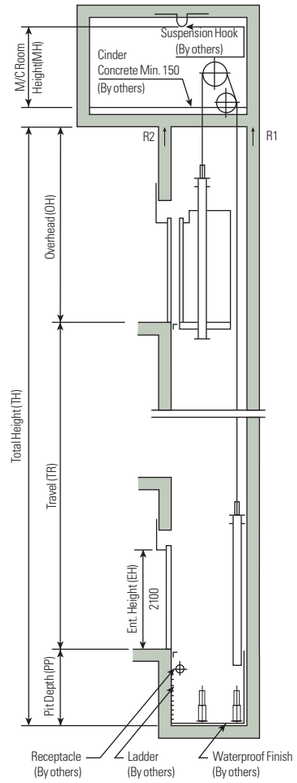
Speed (m/sec)	Capacity		Opening Type	Clear Opening	Car		Hoistway Size		M/C Room Reaction (kg)				Pit Reaction (kg)	
	Persons	kg		OP	CA × CB	A × B	X	Y	R1	R2	R3	R4	R5	R6
1.0	7	550	2 Panel Side Open	800	1100 x 1300	1160 x 1492	1800	1850	4000	2100	1500	600	7000	1600
	8	630		800	1100 x 1400	1160 x 1592	1800	1900	4100	2300	1600	600	7300	1600
	9	700		800	1200 x 1400	1260 x 1592	1900	1900	4500	2300	1700	650	7800	1600
	10	800		800	1300 x 1400	1360 x 1592	2000	1900	4800	2300	1750	700	8100	1700
	12	900		900	1300 x 1600	1360 x 1792	2000	2100	5100	2500	1800	750	9200	1900
1.5	13	1000		900	1100 x 2100	1160 x 2292	1800	2550	5400	2700	1900	800	9800	2000
				1200	2100 x 1100	2160 x 1292	2800	1750	5400	2700	1900	800	9800	2000
1.75	15	1150		1000	1200 x 2200	1300 x 2407	2000	2700	6300	3400	2100	900	12500	2500
	18	1350		1000	1300 x 2300	1400 x 2507	2200	2800	7700	4300	2500	1100	13900	3000
	21	1600		1100	1400 x 2400	1500 x 2607	2300	2900	7900	4600	2600	1200	15200	3200
	23	1750		1200	1500 x 2400	1600 x 2607	2400	2900	8600	4300	2900	1300	16700	2800
	26	2000		1200	1500 x 2700	1600 x 2907	2400	3200	9100	4700	3100	1300	19800	3300
	33	2500		1300	1800 x 2700	1900 x 2907	2900	3200	10300	5200	3300	1600	24000	3700
2.0	12	900		900	1300 x 1600	1400 x 1807	2200	2250	5900	3700	1800	900	11200	2300
	13	1000		900	1300 x 1750	1400 x 1957	2200	2450	6100	3900	2200	900	11800	2500
	15	1150		1000	1200 x 2200	1300 x 2407	2100	2700	6600	4200	2300	900	14200	2700
	18	1350		1100	1300 x 2300	1400 x 2507	2200	2800	8200	4600	2600	1200	16500	3100
	21	1600		1200	1400 x 2400	1500 x 2607	2300	2900	8300	4900	2700	1200	17800	3300
2.5	12	900		900	1300 x 1600	1400 x 1807	2200	2250	5900	3700	1800	900	11200	2300
	13	1000		900	1300 x 1750	1400 x 1957	2200	2450	6100	3900	2200	900	11800	2500
	15	1150		1000	1200 x 2200	1300 x 2407	2100	2700	6600	4200	2300	900	14200	2700
	18	1350		1100	1300 x 2300	1400 x 2507	2200	2800	8200	4600	2600	1200	16500	3100
	21	1600		1200	1400 x 2400	1500 x 2607	2300	2900	8300	4900	2700	1200	17800	3300

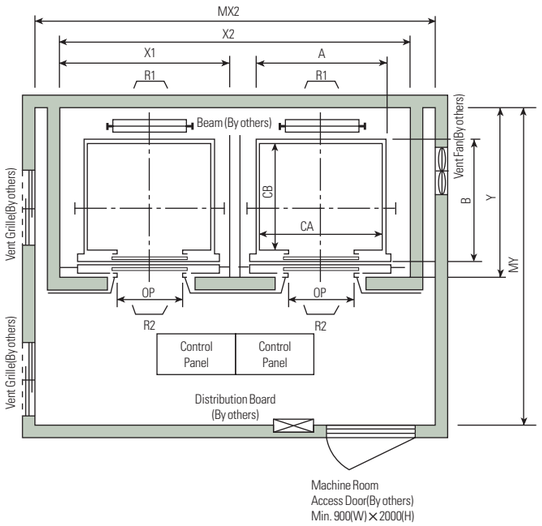
Plan of Hoistway & Machine Room

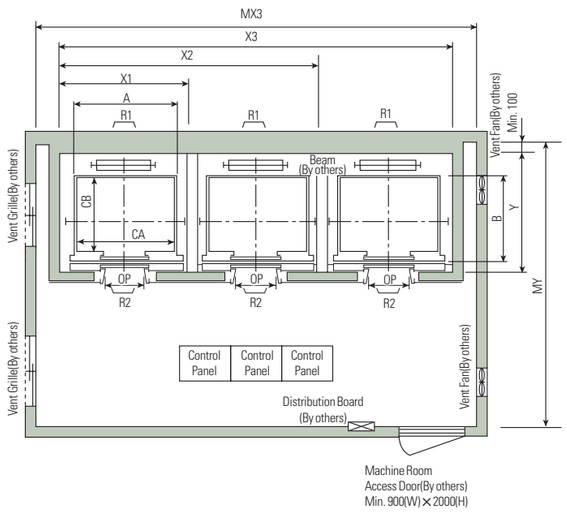


Note : Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner(if necessary) and humidity below 90%.

Section of Hoistway







Standard Dimensions & Reactions

(Unit : mm)

Speed (m/sec)	Capacity		Clear Opening	Car		Hoistway				M/C Room				M/C Room Reaction (kg)		Pit Reaction (kg)	
				Internal	External	1Car	2Cars	3Cars	Depth	1Car	2Cars	3Cars	Depth				
	Persons	kg	OP	CA × CB	A × B	X1	X2	X3	Y	MX1	MX2	MX3	MY	R1	R2	R3	R4
1.0	6	450	800	1400× 850	1460×1005	1800	3700	5600	1430	2000	4000	6000	3200	3600	2000	5200	4300
	8	550	800	1400×1030	1460×1185	1800	3700	5600	1610	2000	4000	6000	3400	4050	2250	5800	4700
	9	600	800	1400×1100	1460×1285	1800	3700	5600	1710	2000	4000	6000	3500	4100	2450	6100	4900
	10	700	800	1400×1250	1460×1405	1800	3700	5600	1830	2000	4000	6000	3600	4200	2700	6600	5200
	11	750	800	1400×1350	1460×1505	1800	3700	5600	1930	2000	4000	6000	3700	4550	2800	6900	5400
1.5	13	900	900	1600×1350	1660×1505	2050	4200	6350	1980	2300	4400	6800	3750	5100	3750	7900	6100
	15	1000	900	1600×1500	1660×1655	2050	4200	6350	2130	2300	4400	6800	3850	5450	4300	8400	6400
1.75	17	1150	1000	1800×1500	1900×1670	2350	4800	7250	2180	2600	4900	7500	3900	6600	5100	10800	8500
			1100	2000×1350	2100×1520	2550	5200	7850	2030	2800	5250	8300	3800				
	20	1350	1000	1800×1700	1900×1870	2350	4800	7250	2380	2600	4900	7500	4200	7800	6000	11800	9100
			1100	2000×1500	2100×1670	2550	5200	7850	2180	2800	5250	8300	4000				
	24	1600	1100	2000×1750	2100×1920	2550	5200	7850	2430	2900	5400	8300	4300	8500	6800	13100	9900
				2150×1600	2250×1770	2700	5500	8300	2280	3000	5650	8700	4200				

Notes : 1. Above hoistway dimensions are based on 15-storied buildings. For application to over 16-storied buildings, the hoistway dimensions shall be at least 5% larger considering the sloping of the hoistways.
2. Above dimensions are based on center opening doors. For applicable dimensions with side opening doors, consult Hyundai.
3. When non-standard capacities and dimensions are required to meet the local code, consult Hyundai.
4. The capacity in persons is calculated at 65kg/person. (EN81=75kg/person)

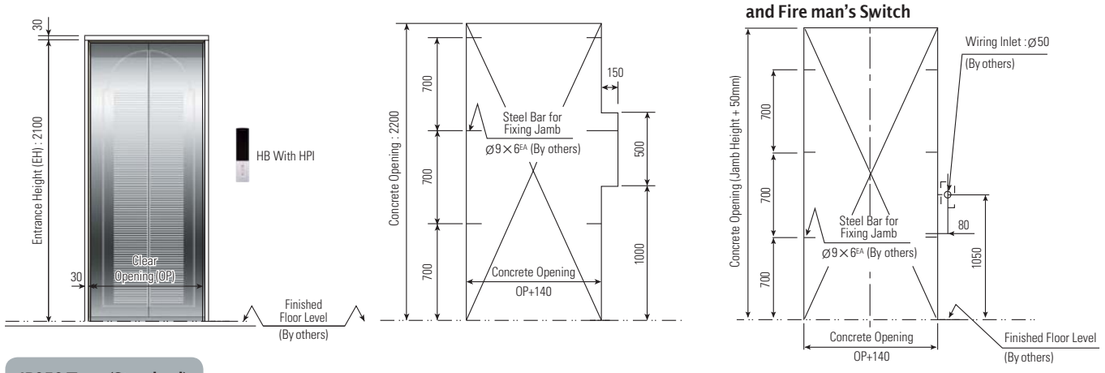
(Unit : mm)

Speed (m/sec)	Overhead (OH)	Pit (PP)	M/C Room Height (MH)
1.0	4200	1400	2200
1.5	4400	1600	2400
1.75	4600	1800	2400

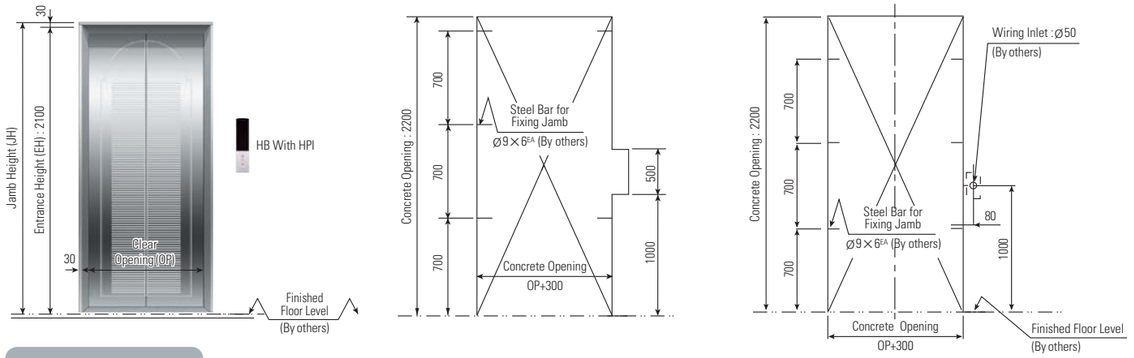
Notes : 1. The minimum hoistway dimensions are shown on the above table. Therefore, some allowances should be made considering the sloping of the hoistways.
2. Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner (if necessary) and humidity below 90%.
3. The minimum machine room height should be 2800mm in case of the traction machine with double isolation pad.

Entrance

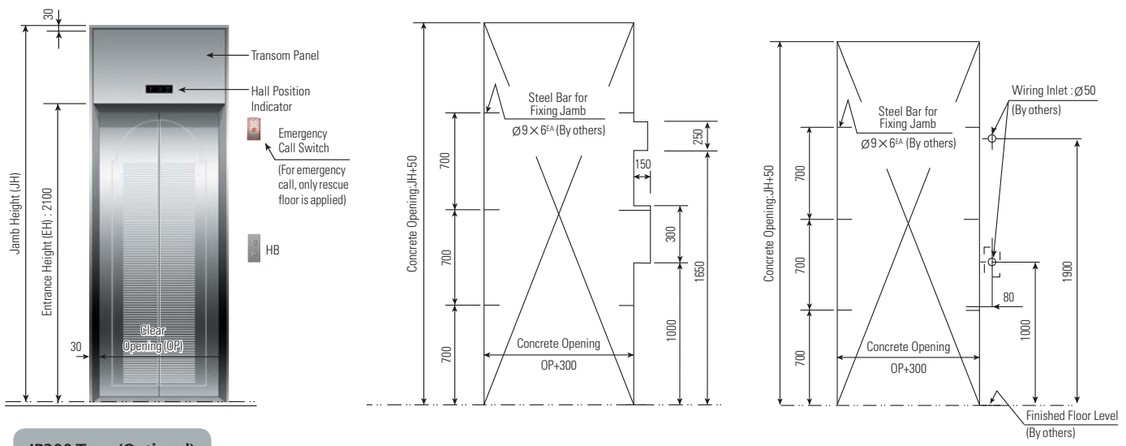
Structural Opening of Entrance



JP050 Type (Standard)

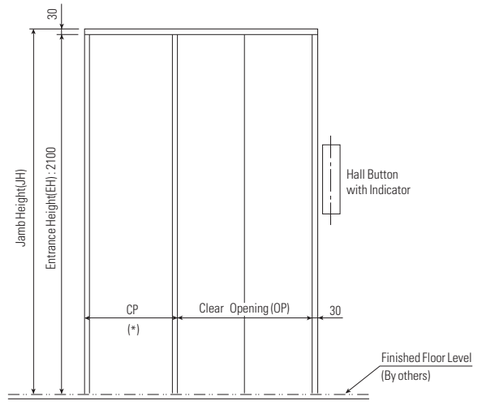


JP100 Type (Optional)

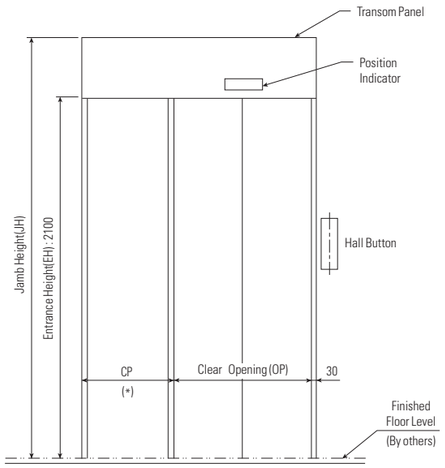


JP200 Type (Optional)

Entrance Design



CP110 Type (Standard)

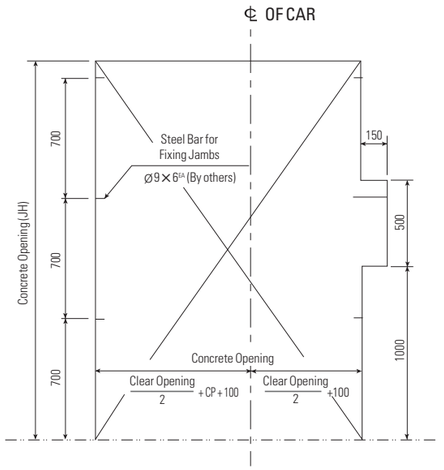


CP210 Type (Optional)

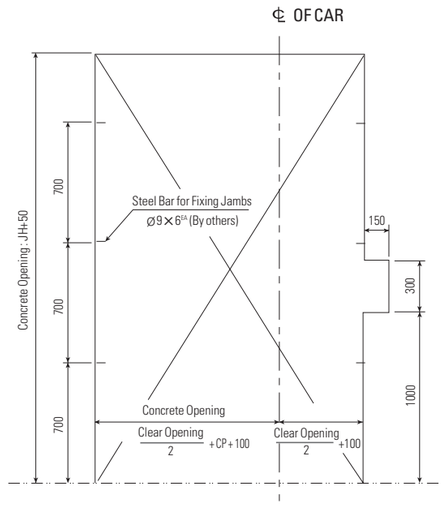
(Unit : mm)

Persons	Speed (m/sec)	Width of Control Panel (CP)(*)
8~17	Under 1.75	530
20, 24	1.0	530
	1.5	630
	1.75	630

Structural Opening of Entrance

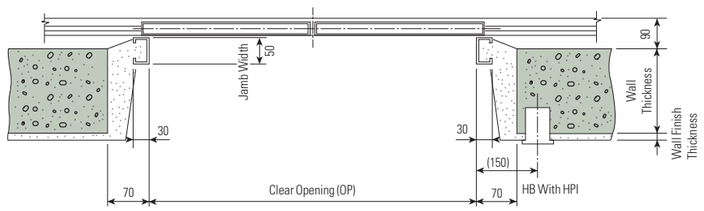


CP110 Type (Standard)

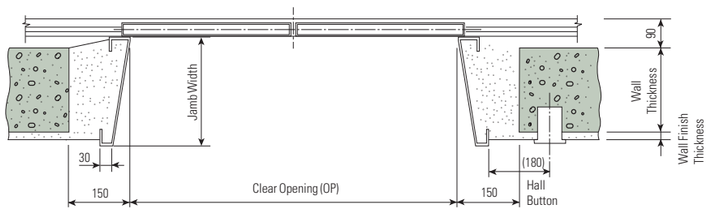


CP210 Type (Optional)

Plan of Entrance

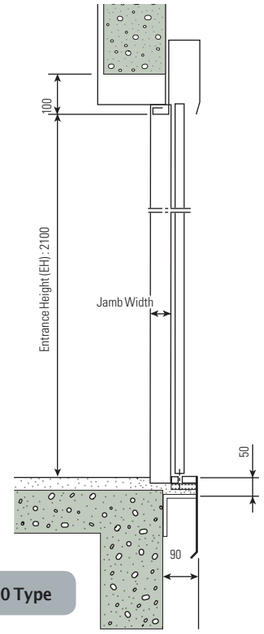


JP050 Type

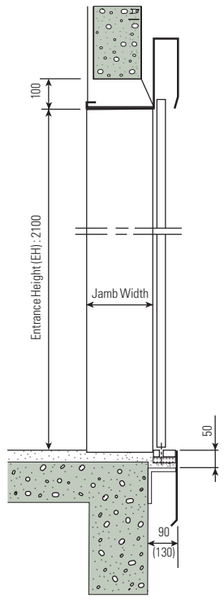


JP100, JP200 Type

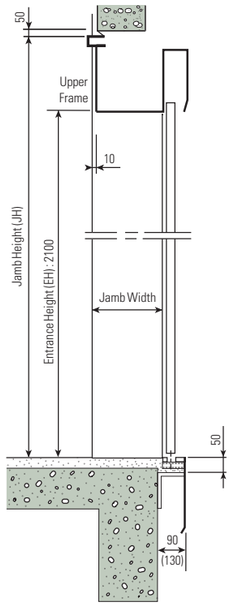
Section Entrance



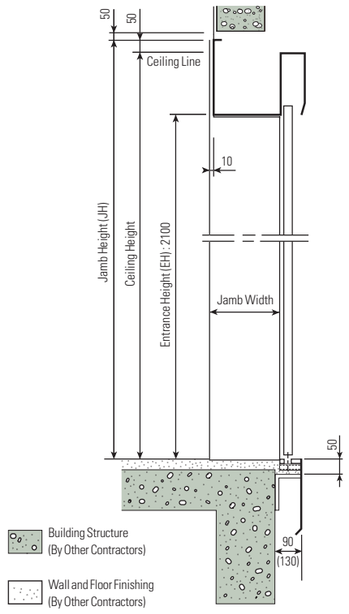
JP050 Type



JP100 Type



JP200 Type (with upper frame)



JP200 Type (without upper frame)

Note : The dimension in ( ) is applied for 2m/sec and over.

The following works are not included in the elevator contract, and shall be done by other contractors in accordance with the Hyundai Elevator's drawings and the applicable codes and regulations.

Building Work

Hoistway

1. Clear, plumb hoistway with fire resistant hatch walls as required by the applicable code. (Rule 100.1a)
2. 75° bevel guards on all projections, recesses, or setbacks over 50mm except on side used for loading or unloading. (Rule 100.6)
3. Venting of the hoistway as required by the applicable code or responsible authority. (Rule 100.4)
4. Supports for rail brackets at each floor, roof, and machine room. (Rule 200.9)
   Maximum allowable vertical spacing of rail supports without backing. (Rule 200.4 and 301.1) Divider beams 100mm between hoistway at each floor and roof, for guide rail bracket supports. (Rule 200.4, 200.9 and 301.1)
5. Recesses supports and patching as required to accommodate hall button boxes, signal fixtures, etc.
6. All barricades either outside elevator hoistways or between inside hoistways as required.
7. Dry pit reinforced to sustain normal vertical forces from rails and buffers. (Rule 106.1b and 109) Consult Hyundai Elevator Company for rail forces and buffer impacts. Where there is space below the pit floor that can be occupied, consult Hyundai Elevator Company for special requirements. (Rule 300.4) Cylinder hole, casings under the pit as required, and backfilling around the cylinder casings when direct plunger type is to be installed.
8. Where access to the pit is by means of the lowest hoistway entrance, vertical iron ladder extending 1060mm minimum above sill of access door. (Rule 106.1d)
9. Entrance walls and finished floor are not to be constructed until after door frames and sills are in place. Door frames are to be anchored to walls and properly grouted in place to maintain legal fire rating.
10. For application as indoor or outdoor observation elevator, a glass enclosure of at least 3.6m in height at the bottom landing is recommended for safety. For use as an outdoor observation elevator, a full-height glass enclosure is required.

Machine Room

11. Enclosed and protected machine room. (Rule 101.1)
12. Access to the machine room and machinery space as required by the applicable code or responsible authority. (Rule 101.3)
13. Reinforced concrete machine room floor slab or grating, as specified, which must not be placed over the hoistway until elevator machinery is set in position. (Rule 100.3 for Traction Elevator)
    Clear access above ceiling or trench in floor, for oil line and wiring duct from machine room, if machine room is remote from elevator hoistway. (For Hydraulic Elevator) Cutout through machine room wall, for oil line and wiring duct as required by Hyundai Elevator's shop drawings. (For Hydraulic Elevator)
14. Hoisting beams, trap doors, and other means of access to machine room for maintenance and equipment removal purposes. (Rule 101.3d)
15. Cable guards in the machine room or secondary level. (Rule 104.1)
16. Supports for machine and sheave beams and reactions including wall pockets and patching after beams are set in place. (Rule 105.1 to 105.5)

Electrical Work

Hoistway

1. Light outlet for each elevator, in center of hoistway (or in machine room) as indicated by Hyundai Elevator Company.
2. Convenience outlet and light fixture in pit with switch located adjacent to the access door. (Rule 106.1e)
3. Wiring and piping work of emergency bell, interphone, etc. Outside the hoistway and the machine room.

Machine Room

4. Lighting, convenience outlets, ventilation, heating of machine room, and machinery space. (Rule 101.5)
5. Temperature should be maintained below 40° by a ventilating fan and/or air conditioner, if necessary, and humidity below 90%.
6. A fused disconnect switch or circuit breaker for each elevator and light switch located per the applicable code and where practicable located adjacent to the door of the machine room. (Rule 210.5 and 306.7)
7. Feeder and branch wiring to the controller, including main-line switch and convenience outlets.
8. Suitable power feeder and branch wiring circuits as required for elevators with power-operated doors, including disconnect switch or circuit breaker.

Emergency Provisions

9. Elevator fireman's and other emergency services wiring and interconnections to automatic sprinkler systems or heat and smoke sensing devices furnished by others and installed to terminal points on the elevator controllers.
10. When emergency power operation of elevators is required, the electrical contractor should coordinate with Hyundai Elevator Company or local distributor for operation requirements.
11. Elevator fireman's and other emergency service requirements may differ from each country. Consult Hyundai Elevator Company or local distributor for other local requirements.
12. When provisions for earthquake protection are required, consult Hyundai Elevator Company for special requirements.

Heat Emission of Machine Room

Q (Kcal/H) = $W \times V \times F \times N$

W : Capacity (kg)　　V : Speed (m/sec)

F : Factor (1/40: VVVF)　　N : Number of cars

Electric Power Requirements (By others)

VVVF (50/60Hz, 380V)

Persons (kg)	Speed (m/sec)	Motor (kW)	MCCB (A)		Power (KVA)		Cable (mm²)		Earth (mm²)	
			1Car	2Cars	1Car	2Cars	1Car	2Cars	1Car	2Cars
6/450	1	5.5 (2.8)	20 (20)	30 (20)	4 (3)	7 (5)	4 (4)	6 (4)	4 (6)	4 (6)
	1.5	7.5 (4.2)	20 (20)	30 (40)	6 (4)	10 (8)	4 (4)	6 (10)	4 (6)	6 (6)
	1.75	7.5 (4.9)	20 (20)	40 (40)	7 (5)	12 (9)	4 (4)	10 (10)	4 (6)	6 (6)
8/550	1	5.5 (3.4)	20 (20)	30 (20)	5 (4)	9 (6)	4 (4)	6 (4)	4 (6)	4 (6)
	1.5	7.5 (5.1)	20 (20)	30 (40)	7 (5)	13 (10)	4 (4)	6 (10)	4 (6)	4 (6)
	1.75	11 (5.9)	30 (20)	50 (40)	8 (6)	15 (11)	6 (4)	16 (10)	4 (6)	6 (6)
9/600	1	5.5 (3.7)	20 (20)	30 (30)	5 (4)	9(7)	4 (4)	6 (6)	4 (6)	4 (6)
	1.5	11 (5.6)	30 (20)	50 (40)	8 (6)	14 (11)	6 (4)	16 (10)	4 (6)	6 (10)
	1.75	11 (6.5)	30 (20)	50 (40)	9 (7)	16 (12)	6 (4)	16 (10)	4 (6)	6 (10)
10/700	1	7.5 (4.3)	20 (20)	40 (30)	6 (5)	11 (8)	4 (4)	10 (6)	4 (6)	6 (6)
	1.5	11 (6.5)	30 (20)	50 (40)	9 (7)	16 (12)	6 (4)	16 (10)	4 (6)	6 (6)
	1.75	11 (7.6)	30 (20)	60 (40)	11 (9)	19 (14)	6 (4)	16 (10)	4 (6)	10 (6)
11/750	1	7.5 (4.6)	20 (20)	40 (30)	6 (5)	12 (9)	4 (4)	10 (6)	4 (6)	6 (6)
	1.5	11 (6.9)	30 (20)	50 (40)	10 (7)	17 (13)	6 (4)	16 (10)	4 (6)	6 (10)
	1.75	11 (8.1)	30 (30)	60 (50)	11 (9)	20 (15)	10 (6)	16 (16)	4 (6)	10 (10)
	2	(9.2)	(30)	(50)	(10)	(18)	(6)	(16)	(6)	(10)
13/900	1	11 (5.6)	30 (20)	50 (30)	8 (6)	14 (11)	6 (4)	10 (6)	4 (6)	6 (6)
	1.5	15 (8.3)	40 (30)	60 (50)	12 (9)	21 (16)	10 (6)	16 (16)	6 (6)	10 (10)
	1.75	15 (9.7)	40 (30)	75 (50)	14 (10)	24 (18)	10 (6)	25 (16)	6 (6)	10 (10)
	2	(11.1)	(30)	(60)	(12)	(21)	(6)	(16)	(6)	(10)
	2.5	(13.8)	(50)	(100)	(15)	(28)	(10)	(25)	(6)	(16)
15/1000	1	11 (6.2)	30 (20)	50 (40)	9 (7)	15 (12)	6 (4)	16 (10)	4 (6)	6 (10)
	1.5	15 (9.2)	40 (30)	75 (50)	13 (10)	23 (18)	10 (6)	25 (16)	6 (6)	10 (10)
	1.75	15 (10.8)	40 (30)	75 (60)	15 (11)	27 (20)	10 (6)	25 (16)	6 (6)	10 (10)
	2	(12.3)	(40)	(75)	(13)	(23)	(10)	(25)	(6)	(16)
	2.5	(15.4)	(50)	(100)	(17)	(31)	(10)	(25)	(6)	(16)
17/1150	1	11 (7.1)	30 (20)	50 (40)	10 (8)	18 (13)	6 (4)	16 (10)	4 (6)	6 (10)
	1.5	15 (10.6)	40 (30)	75 (60)	15 (11)	27 (20)	10 (6)	25 (16)	6 (6)	10 (10)
	1.75	18.5 (12.4)	50 (30)	100 (60)	17 (13)	31 (23)	16 (6)	35 (16)	6 (6)	10 (16)
	2	(14.1)	(40)	(75)	(15)	(27)	(10)	(25)	(6)	(16)
	2.5	(17.7)	(60)	(100)	(20)	(35)	(10)	(25)	(6)	(16)
20/1350	1	15 (8.3)	30 (20)	60 (40)	12 (9)	21 (16)	10 (4)	16 (10)	6 (6)	6 (6)
	1.5	18.5 (12.5)	50 (40)	100 (75)	17 (13)	31 (24)	16 (10)	25 (25)	6 (6)	10 (10)
	1.75	22 (14.5)	50 (40)	100 (75)	20 (15)	37 (28)	16 (10)	35 (25)	6 (6)	10 (10)
	2	(16.6)	(40)	(100)	(17)	(31)	(10)	(25)	(6)	(10)
	2.5	(20.7)	(75)	(125)	(23)	(41)	(16)	(35)	(10)	(25)
24/1600	1	15 (9.9)	40 (30)	75 (50)	14 (10)	25 (19)	10 (6)	25 (16)	6 (6)	10 (6)
	1.5	22 (14.8)	50 (50)	100 (75)	21 (16)	37 (28)	16 (10)	35 (25)	6 (6)	10 (10)
	1.75	22 (17.2)	60 (50)	125 (100)	24 (18)	43 (33)	16 (16)	35 (25)	10 (6)	16 (10)
	2	(19.7)	(50)	(100)	(21)	(37)	(16)	(25)	(6)	(10)
	2.5	(24.5)	(75)	(150)	(27)	(49)	(16)	(50)	(10)	(35)

Notes : 1. Above power feeder sizes are for the length of electric wire up to 50m from elevator machine room to power.
For the length being 50m or more, the following formular should be applied.
2. Above cable sizes are for copper wires inside electrometallic tubings.
Cable sizes(mm²) = $\frac{\text{Cable length(m)}}{50} \times$ Size in the above(mm²)
3. For power requirement of 3 cars or more, consult Hyundai.
4. Machine room temperature should be maintained below 40°C with ventilating fan and air conditioner, and humidity below 90%.
5. Data shown in ( ) is applied to the Machine-Room-Less elevators and gearless elevators.

VVVF (50/60Hz, 220V)

Persons (kg)	Speed (m/sec)	Motor (kW)	MCCB (A)		Power (KVA)		Cable (mm²)		Earth (mm²)	
			1Car	2Cars	1Car	2Cars	1Car	2Cars	1Car	2Cars
6/450	1	5.5 (2.8)	30 (20)	50 (40)	4.3 (3.3)	8 (6)	4 (4)	10 (6)	4 (4)	6 (6)
	1.5	7.5 (4.2)	30 (30)	60 (60)	6.4 (4.9)	12 (9)	6 (6)	16 (16)	4 (4)	10 (10)
	1.75	7.5 (4.9)	40 (30)	75 (60)	7.5 (5.7)	14 (10)	6 (6)	16 (16)	6 (4)	10 (10)
8/550	1	5.5 (3.4)	30 (20)	50 (40)	5.3 (4)	9 (7)	4 (4)	16 (6)	4 (4)	6 (6)
	1.5	7.5 (5.1)	40 (30)	75 (60)	7.9 (6)	14 (11)	6 (6)	25 (16)	6 (4)	10 (10)
	1.75	11 (5.9)	40 (30)	75 (60)	9.2 (7)	17 (13)	10 (6)	25 (16)	6 (4)	10 (10)
9/600	1	5.5 (3.7)	30 (20)	60 (40)	5.7 (4.4)	10 (8)	4 (4)	16 (10)	4 (4)	10 (6)
	1.5	11 (5.6)	40 (30)	75 (60)	8.6 (6.5)	15 (12)	10 (6)	25 (16)	6 (4)	10 (10)
	1.75	11 (6.5)	40 (30)	100 (60)	10 (7.6)	18 (14)	10 (6)	25 (16)	6 (6)	16 (10)
10/700	1	7.5 (4.3)	30 (20)	60 (40)	6.7 (5.1)	12 (9)	6 (4)	16 (10)	4 (4)	10 (6)
	1.5	11 (6.5)	40 (30)	100 (60)	10 (7.6)	18 (14)	10 (6)	25 (16)	6 (6)	16 (10)
	1.75	11 (7.6)	50 (40)	100 (75)	11.7 (8.8)	21 (16)	16 (6)	35 (25)	6 (6)	16 (10)
11/750	1	7.5 (4.6)	30 (30)	60 (50)	7.2 (5.4)	13 (10)	6 (4)	16 (10)	4 (4)	10 (6)
	1.5	11 (6.9)	50 (40)	100 (75)	10.7 (8.1)	19 (15)	10 (6)	35 (16)	6 (6)	16 (10)
	1.75	11 (8.1)	50 (40)	100 (75)	12.5 (9.5)	23 (17)	16 (10)	35 (25)	6 (6)	16 (10)
	2	(9.2)	(40)	(100)	(10.8)	(19)	(10)	(25)	(6)	(16)
13/900	1	11 (5.6)	40 (30)	75 (50)	8.6 (6.5)	15 (12)	10 (4)	25 (16)	6 (4)	10 (6)
	1.5	15 (8.3)	50 (40)	100 (75)	12.9 (9.7)	23 (18)	16 (10)	35 (25)	6 (6)	16 (10)
	1.75	15 (9.7)	60 (50)	125 (100)	15 (11.3)	27 (20)	16 (10)	50 (35)	10 (6)	25 (16)
	2	(11.1)	(50)	(100)	(13)	(23)	(16)	(35)	(6)	(16)
	2.5	(13.8)	(30)	(50)	(16.2)	(29)	(10)	(25)	(4)	(6)
15/1000	1	11 (6.2)	40 (30)	75 (60)	9.6 (7.2)	17 (13)	10 (6)	25 (16)	6 (4)	10 (10)
	1.5	15 (9.2)	60 (50)	125 (100)	14.3 (10.8)	26 (19)	16 (10)	35 (35)	10 (6)	25 (16)
	1.75	15 (10.8)	75 (50)	125 (100)	16.7 (12.6)	30 (23)	16 (16)	50 (35)	10 (6)	25 (16)
	2	(12.3)	(60)	(125)	(14.4)	(26)	(16)	(35)	(10)	(25)
	2.5	(15.4)	(30)	(50)	(18)	(32)	(16)	(35)	(4)	(6)
17/1150	1	11 (7.1)	50 (40)	100 (75)	11 (8.3)	20 (15)	10 (6)	35 (25)	6 (6)	16 (10)
	1.5	15 (10.6)	75 (50)	125 (100)	16.5 (12.4)	30 (22)	16 (10)	50 (25)	10 (6)	25 (16)
	1.75	18.5 (12.4)	75 (60)	150 (125)	19.2 (14.5)	35 (26)	25 (16)	70 (35)	10 (10)	25 (25)
	2	(14.1)	(70)	(150)	(16.5)	(30)	(25)	(50)	(10)	(25)
	2.5	(17.7)	(40)	(75)	(20.7)	(37)	(25)	(70)	(6)	(10)
20/1350	1	15 (8.3)	50 (40)	100 (75)	12.9 (9.7)	23 (18)	16 (10)	35 (25)	6 (6)	16 (10)
	1.5	18.5 (12.5)	75 (60)	150 (125)	19.3 (14.6)	35 (26)	25 (16)	70 (35)	10 (10)	25 (25)
	1.75	22 (14.5)	100 (60)	200 (125)	22.6 (17)	41 (31)	35 (16)	95 (35)	16 (10)	35 (25)
	2	(16.6)	(70)	(150)	(19.4)	(35)	(25)	(50)	(10)	(25)
	2.5	(20.7)	(50)	(100)	(24.2)	(44)	(25)	(95)	(6)	(16)
24/1600	1	15 (9.9)	60 (50)	125 (100)	15.3 (11.5)	28 (21)	16 (10)	50 (35)	10 (6)	25 (16)
	1.5	22 (14.8)	100 (70)	200 (125)	22.9 (17.3)	41 (31)	35 (16)	95 (35)	16 (10)	35 (25)
	1.75	22 (17.2)	100 (80)	200 (150)	26.8 (20.1)	48 (36)	35 (25)	95 (70)	16 (16)	35 (25)
	2	(19.7)	(80)	(175)	(23)	(41)	(35)	(95)	(16)	(35)
	2.5	(24.6)	(80)	(175)	(28.7)	(52)	(35)	(95)	(16)	(35)

Notes : 1. Above power feeder sizes are for the length of electric wire up to 50m from elevator machine room to power.
For the length being 50m or more, the following formular should be applied.
2. Above cable sizes are for copper wires inside electrometallic tubings.
Cable sizes(mm²) = $\frac{\text{Cable length(m)}}{50} \times$ Size in the above(mm²)
3. For power requirement of 3 cars or more, consult Hyundai.
4. Machine room temperature should be maintained below 40°C with ventilating fan and air conditioner, and humidity below 90%.
5. Data shown in ( ) is applied to the Machine-Room-Less elevators and gearless elevators.