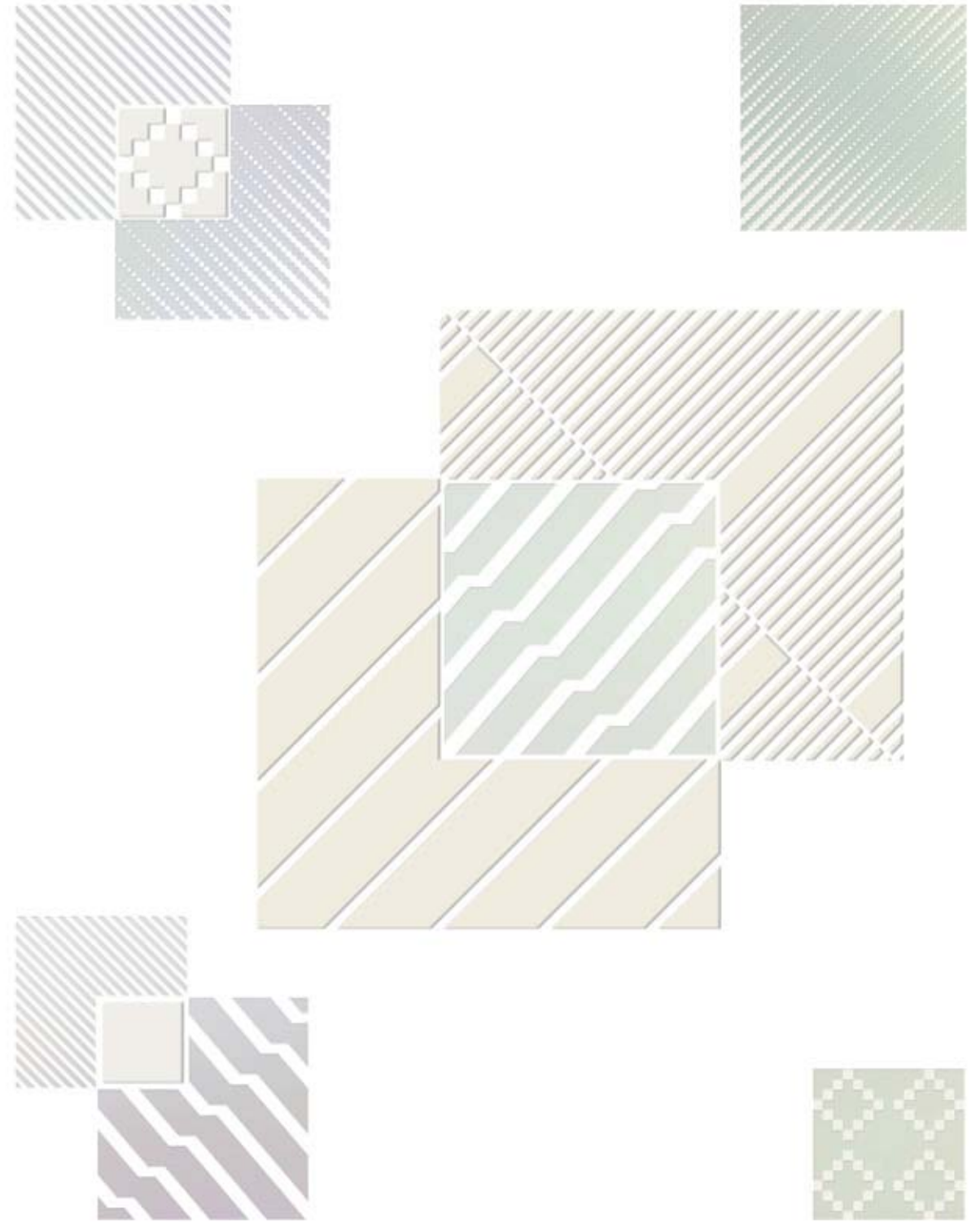


# LUXEN


HYUNDAI ELEVATOR LUXEN



LUXEN C-LUX-E0308/2018.04/3rd Edition

HYUNDAI ELEVATOR

# LUXEN

  
**HYUNDAI**  
ELEVATOR CO., LTD.

ELEVATOR MARKET SHARE  
IN KOREA

HYUNDAI ELEVATOR

**44.1%**

[Units installed, 2017]



HYUNDAI ELEVATOR **LUXEN**

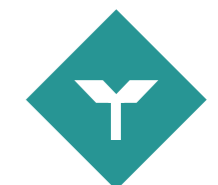
**One out of two elevators  
sold in Korea is  
made by Hyundai Elevator**

and Luxen is  
Hyundai Elevator customers'  
preferred choice

**LUXEN**



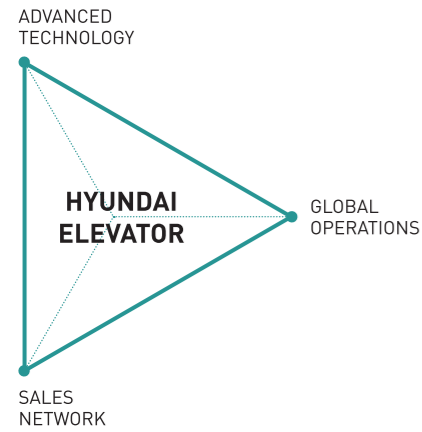
**LU**crative



**EN**vironmentally  
Friendly

Maximum operating efficiency  
for environmental protection  
and greater economy

# There is a reason why Hyundai Elevator is customers' preferred choice



## 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.

### OVERSEAS SUBSIDIARIES

<b>CHINA</b>	SHANGHAI HYUNDAI ELEVATOR CO., LTD.
<b>INDONESIA</b>	PT. HYUNDAI ELEVATOR INDONESIA
<b>INDIA</b>	KINETIC HYUNDAI ELEVATOR & MOVEMENT TECHNOLOGIES LIMITED
<b>MALAYSIA</b>	HYUNDAI ELEVATOR (MALAYSIA) SDN. BHD
<b>BRAZIL</b>	HYUNDAI ELEVADORES DO BRASIL LTDA.
<b>VIETNAM</b>	HYUNDAI THANH CONG ELEVATOR VIETNAM CO., LIMITED
<b>TURKEY</b>	HYUNDAI ELEVATOR ASANSÖR VE SERVIS SANAYI VE TICARET ANONIM ŞİRKETİ

### MANUFACTURING PLANTS

<b>Icheon Headquarters</b> (Icheon, Korea)	<ul style="list-style-type: none"> <li>- [Factories 1, 2, 3] 46,484 m<sup>2</sup> state-of-the-art facilities</li> <li>- Production of elevators, automated material handling system, parking systems, platform screen doors (PSD), etc.</li> <li>- Hyundai Asan Tower</li> <li>- Hyundai Customer Care Center (CCC)</li> </ul>
<b>China Factory</b> (Shanghai, China)	<ul style="list-style-type: none"> <li>- 28,716 m<sup>2</sup> state-of-the-art facilities</li> <li>- Production of elevators and escalators</li> <li>- Elevator test tower (72 m high)</li> </ul>

### CERTIFICATION

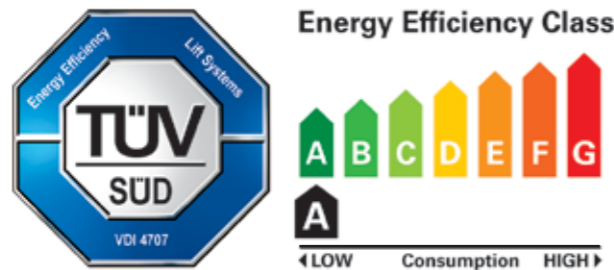


LUXEN INNOVATION 1

# HIGHEST EFFICIENCY & SAFETY

Hyundai Elevator's core technologies have optimized the conditions to operate an elevator

The 1st Korean elevator to earn Germany's Class A energy efficiency rating



Luxen earned Class A energy efficiency ratings, the highest under the guidelines of the Association of German Engineers (VDI), from Germany's prestigious testing and certification agency, TÜV SÜD.



### VDI 4707 Part 1

VDI 4707 Part 1 is an internationally recognized energy efficiency certification for elevators based on criteria such as capacity, speed, operational cycle, energy consumption, and average travel distance. There are 7 energy efficiency ratings, ranging from A for the least amount of consumption, to G, the highest.



## 1 High efficiency, gearless, synchronous traction machine

### Energy savings

The synchronous gearless traction machine has a motor that uses permanent magnets and consumes 25% less energy than induction motors.

### Exceptional ride quality

Noise and vibration are significantly reduced with the elimination of interlocking gears, providing extraordinary riding comfort.

### Easy Maintenance

The gearless traction machine does not use gear oil and is easy to maintain, eliminating the need for oil changes and reducing maintenance costs.



## 2 Regenerative inverter that recycles energy (optional)

### Up to 60% energy savings (PWM Type)

Energy generated while operating the elevator is recycled for up to 60% in energy savings (77.5% energy efficiency).

### Machine room heat reduction

Machine room heat is greatly reduced by recycling power generated while operating the elevator instead of dissipating heat.



## 3 Magnet synchronous motor doors

A permanent magnet synchronous motor simplifies the elevator doors' structure to reduce breakdowns, curtain noise, and open and close doors gently. Low energy consumption cuts down maintenance costs.



## 4 Eco-friendly LED ceiling



Ultra-slim LED ceiling lights are long-lasting, consume little power, and reduce eye fatigue.

\* Not applicable on certain ceiling options.

## 5 Highly reliable dual brakes

Dual braking system allows brakes on one side to operate independently if brakes on the other side fail, improving safety significantly (conforms to European EN81 international safety standards).

LUXEN INNOVATION 2

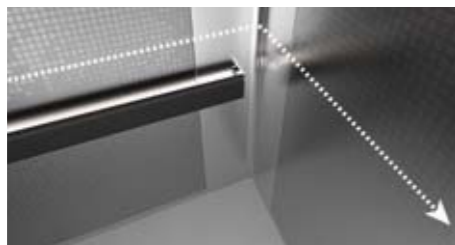
# SMART DESIGN

Design and technology offer differentiated value



### The Round Corner design that appeases the mind (optional)

Hyundai Elevator's iconic Round Corner design harmoniously blends curved lines and straight lines to enhance the product's beauty and convey a sense of security, while establishing the company's product identity (PI).



### Smart Indicator that keeps passengers informed (optional)

Hyundai Elevator's world first Smart Indicator is a LCD screen that easily conveys diverse information such as time and date. In addition, a built-in anion, double-clean system and ultrasonic pest protection feature provide year-round comfort throughout all 4 seasons.



### Antiviral handrails that protect the health of passengers (optional)

Ergonomic handrails, thoughtfully designed through comprehensive behavioral analysis to promote the safety and comfort of passengers, are made with antiviral materials that safeguard users from harmful viruses.



### Operational panel with integrated Welcome System that thoughtfully greets passengers (optional)

Welcome System is a smart system that includes a communication function that welcomes passengers when they come aboard and automatically illuminates the control buttons for greater visibility.





LUXEN DESIGN COLLECTION

# LXE-01

## CAGE DESIGN

<b>Ceiling</b>	CD199B/Art Metal Silver (AM01), LED Bar Type Module (P022), Ceiling Plate (Painted Steel P021)
<b>Car Wall</b>	STS Hairline, STS Hairline Etching (SE2303)
<b>Handrail</b>	STS Hairline 1Pipe (1C), Chrome Bracket
<b>Car Door</b>	STS Hairline Etching (SE2303)
<b>Car Operating Panel</b>	OPP-N521/STS Hairline
<b>Indicator</b>	PI-D110
<b>Flooring</b>	LXE-01 (Deco Tile - DTE2246, DTE2251)



## ENTRANCE

### 200U TYPE

<b>Jamb</b>	STS Hairline/200U Type
<b>Transom Panel</b>	STS Hairline
<b>Door</b>	STS Hairline Etching (SE2303)
<b>Hall Button</b>	HPB-221/STS Hairline
<b>Indicator</b>	PI-D110

### 100 TYPE

<b>Jamb</b>	STS Hairline/100 Type
<b>Door</b>	STS Hairline Etching (SE2303)
<b>Hall Button</b>	HIP-D221/STS Hairline

### 50 TYPE

<b>Jamb</b>	STS Hairline/50 Type
<b>Door</b>	STS Hairline Etching (SE2303)
<b>Hall Button</b>	HIP-D221/STS Hairline



200U TYPE

100 TYPE

50 TYPE

**Note**

1. Colors printed in this catalog may appear different from actual colors.
2. For 10 passenger (700 kg) models and smaller, the central wall pattern on the inner surface of side panels may be omitted due to the division line between the 2 panels.
3. Please refer to page 28 for ceiling options for emergency elevators.



LUXEN DESIGN COLLECTION  
**▶ LXE-02**

**CAGE DESIGN**

<b>Ceiling</b>	CD191A/Art Metal Silver (AM08), LED Bar Type Module (P022), Ceiling Plate (Painted Steel P024)
<b>Car Wall</b>	STS Hairline, STS Hairline Etching (SE2311)
<b>Handrail</b>	STS Hairline 1Pipe (1C), Chrome Bracket
<b>Car Door</b>	STS Hairline Etching (SE2311)
<b>Car Operating Panel</b>	OPP-N521/STS Hairline
<b>Indicator</b>	PI-D600
<b>Flooring</b>	LXE-02 (Deco Tile - DTE2125, DTE2126)



**ENTRANCE**

**200U TYPE**

<b>Jamb</b>	STS Hairline/200U Type
<b>Transom Panel</b>	STS Hairline
<b>Door</b>	STS Hairline Etching (SE2311)
<b>Hall Button</b>	HPB-821/STS Hairline
<b>Indicator</b>	PI-D600

**100 TYPE**

<b>Jamb</b>	STS Hairline/100 Type
<b>Door</b>	STS Hairline Etching (SE2311)
<b>Hall Button</b>	HIP-D821/STS Hairline

**50 TYPE**

<b>Jamb</b>	STS Hairline/50 Type
<b>Door</b>	STS Hairline Etching (SE2311)
<b>Hall Button</b>	HIP-D821/STS Hairline



200U TYPE

100 TYPE

50 TYPE

**Note**

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3. Please refer to page 28 for ceiling options for emergency elevators.



LUXEN DESIGN COLLECTION  
**▶ LXE-03**

**CAGE DESIGN**

<b>Ceiling</b>	CD191B/Art Metal Silver (AM01), LED Bar Type Module (P022), Ceiling Plate (Painted Steel P024)
<b>Car Wall</b>	STS Hairline, STS Hairline Etching (SE2304)
<b>Handrail</b>	STS Hairline 1Pipe (1C), Chrome Bracket
<b>Car Door</b>	STS Hairline Etching (SE2304)
<b>Car Operating Panel</b>	OPP-N520/STS Hairline
<b>Indicator</b>	PI-D110
<b>Flooring</b>	LXE-03 (Deco Tile - DTE2251, DTE2126)



**ENTRANCE**

**200U TYPE**

<b>Jamb</b>	STS Hairline/200U Type
<b>Transom Panel</b>	STS Hairline
<b>Door</b>	STS Hairline Etching (SE2304)
<b>Hall Button</b>	HPB-820/STS Hairline
<b>Indicator</b>	PI-D110

**100 TYPE**

<b>Jamb</b>	STS Hairline/100 Type
<b>Door</b>	STS Hairline Etching (SE2304)
<b>Hall Button</b>	HIP-D820/STS Hairline

**50 TYPE**

<b>Jamb</b>	STS Hairline/50 Type
<b>Door</b>	STS Hairline Etching (SE2304)
<b>Hall Button</b>	HIP-D820/STS Hairline



200U TYPE

100 TYPE

50 TYPE

**Note**

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LUXEN DESIGN COLLECTION  
**▶ LXS-01**

**CAGE DESIGN**

<b>Ceiling</b>	CD219A/Painted Steel (P022), Skylite 10T
<b>Car Wall</b>	STS Hairline, STS Hairline Etching (SE2302), STS Mirror Etching (SE2302)
<b>Handrail</b>	1FB/Anti-Virus 1Pipe (Metallic Black), Aluminium Bracket
<b>Car Door</b>	STS Hairline Etching (SE2302)
<b>Car Operating Panel</b>	OPP-N282A/STS Hairline
<b>Indicator</b>	PI-D110
<b>Flooring</b>	LXS-01 (Deco Tile - DTE2251, DTE2246)



200U TYPE      100 TYPE      50 TYPE

**ENTRANCE**

**200U TYPE**

<b>Jamb</b>	STS Hairline/200U Type
<b>Transom Panel</b>	STS Hairline
<b>Door</b>	STS Hairline Etching (SE2302)
<b>Hall Button</b>	HPB-882/STS Hairline
<b>Indicator</b>	PI-D110

**100 TYPE**

<b>Jamb</b>	STS Hairline/100 Type
<b>Door</b>	STS Hairline Etching (SE2302)
<b>Hall Button</b>	HIP-D882/STS Hairline

**50 TYPE**

<b>Jamb</b>	STS Hairline/50 Type
<b>Door</b>	STS Hairline Etching (SE2302)
<b>Hall Button</b>	HIP-D882/STS Hairline

**Note**

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3. For 11 passenger (750 kg) models and smaller, the operating panel may need to be installed on the side walls due to the narrow width of the front wall.



LUXEN DESIGN COLLECTION  
**LXS-02**

**CAGE DESIGN**

<b>Ceiling</b>	CD199A/Aluminium (Silver), PC ABS, LED Lighting, Ceiling Plate (Painted Steel P021)
<b>Car Wall</b>	STS Hairline, STS Hairline Etching (SE2312), STS Mirror Trim (30 mm)
<b>Handrail</b>	1FG/Anti-Virus 1Pipe (Dark Gray), Aluminium Bracket
<b>Car Door</b>	STS Hairline Etching (SE2312)
<b>Car Operating Panel</b>	OPP-N264A/STS Hairline
<b>Indicator</b>	PI-D700
<b>Flooring</b>	LXS-02 (Deco Tile - DTE2126)



**ENTRANCE**

**200U TYPE**

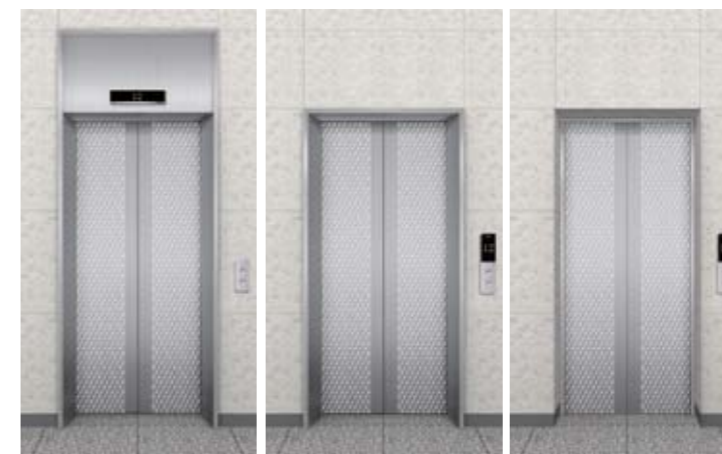
<b>Jamb</b>	STS Hairline/200U Type
<b>Transom Panel</b>	STS Hairline
<b>Door</b>	STS Hairline Etching (SE2312)
<b>Hall Button</b>	HPB-A64
<b>Indicator</b>	PI-D700

**100 TYPE**

<b>Jamb</b>	STS Hairline/100 Type
<b>Door</b>	STS Hairline Etching (SE2312)
<b>Hall Button</b>	HIP-DA64

**50 TYPE**

<b>Jamb</b>	STS Hairline/50 Type
<b>Door</b>	STS Hairline Etching (SE2312)
<b>Hall Button</b>	HIP-DA64



200U TYPE

100 TYPE

50 TYPE

**Note**

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2. For 10 passenger (700 kg) models and smaller, the central wall pattern on the inner surface of side panels may be omitted due to the division line between the 2 panels.
3. For 11 passenger (750 kg) models and smaller, the operating panel may need to be installed on the side walls due to the narrow width of the front wall.



LUXEN DESIGN COLLECTION  
**LXD-01**

CAGE DESIGN

<b>Ceiling</b>	CD399A/Barrisol, Sub Ceiling (Painted Steel P022), LED Lighting, Ceiling Plate (Painted Steel P024)
<b>Car Wall</b>	STS Bead Blast, Art Metal Black (AM01), Embo STS (EP01)
<b>Handrail</b>	1LB/Anti-Virus Bar (Metallic Black), Aluminium Bracket, LED Lighting (Option)
<b>Car Door</b>	STS Bead Blast
<b>Car Operating Panel Indicator</b>	OPP-N280A (Swing Type)/STS Bead Blast PI-L210/Anion Air Cleaner, Ultrasonic Pest Repellent
<b>Flooring</b>	LXD-01/Marble (By Local)



ENTRANCE

200U TYPE

<b>Jamb</b>	STS Bead Blast/200U Type
<b>Transom Panel</b>	STS Bead Blast
<b>Door</b>	STS Bead Blast
<b>Hall Button</b>	HTB-C100
<b>Indicator</b>	PI-D900

100 TYPE

<b>Jamb</b>	STS Bead Blast/100 Type
<b>Door</b>	STS Bead Blast
<b>Hall Button</b>	HIT-DC100

50 TYPE

<b>Jamb</b>	STS Bead Blast/50 Type
<b>Door</b>	STS Bead Blast
<b>Hall Button</b>	HIT-DC100



200U TYPE

100 TYPE

50 TYPE

Note

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3. For 11 passenger (750 kg) models and smaller, swing-type operating panels may not fit due to the narrow width of the front wall.



LUXEN DESIGN COLLECTION  
**LXD-02**

**CAGE DESIGN**

<b>Ceiling</b>	CD319A/Aluminium (Silver), Barrisol, LED Lighting, Ceiling Plate (Painted Steel P022)
<b>Car Wall</b>	STS Bead Blast, Art Metal Bronze (AM07), STS Mirror
<b>Handrail</b>	1LB/Anti-Virus Bar (Metallic Black), Aluminium Bracket, LED Lighting (Option)
<b>Car Door</b>	STS Bead Blast
<b>Car Operating Panel</b>	OPP-N264A (Swing Type)/STS Bead Blast
<b>Indicator</b>	PI-L210/Anion Air Cleaner, Ultrasonic Pest Repellant
<b>Flooring</b>	LXD-02/Marble [By Local]



**ENTRANCE**

**200U TYPE**

<b>Jamb</b>	STS Bead Blast/200U Type
<b>Transom Panel</b>	STS Bead Blast
<b>Door</b>	Art Metal Bronze (AM07)
<b>Hall Button</b>	HPB-B64
<b>Indicator</b>	PI-D800

**100 TYPE**

<b>Jamb</b>	STS Bead Blast/100 Type
<b>Door</b>	Art Metal Bronze (AM07)
<b>Hall Button</b>	HIP-DB64

**50 TYPE**

<b>Jamb</b>	STS Bead Blast/50 Type
<b>Door</b>	Art Metal Bronze (AM07)
<b>Hall Button</b>	HIP-DB64



200U TYPE

100 TYPE

50 TYPE

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4. Please refer to page 28 for ceiling options for emergency elevators.

# FIXTURES DESIGN

## CAR OPERATING PANEL

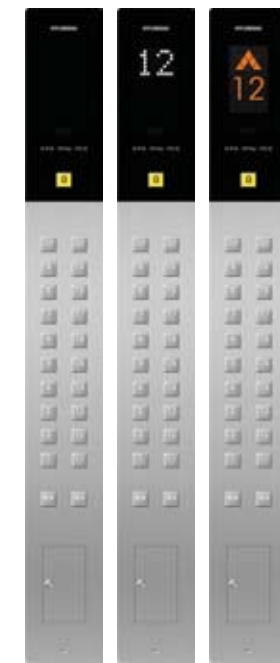
D: DOT TYPE / L: LCD TYPE

### Deluxe

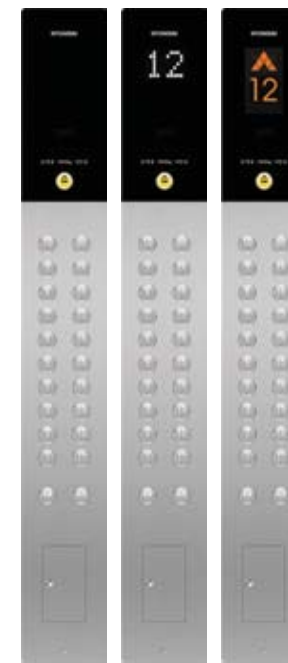


OPP-N280A / OPP-D280A    OPP-N290A / OPP-D290A    OPP-N280W

### Standard



OPP-N520 / OPP-D520 / OPP-L520



OPP-N521 / OPP-D521 / OPP-L521



OPP-N264A / OPP-D264A    OPP-N282A / OPP-D282A    OPP-N364A



D: DOT TYPE / L: LCD TYPE



OPP-N520W



OPP-N521W



OPP-N264W



OPP-N282W

## BUTTON

### Deluxe



80 TYPE

90 TYPE

9A TYPE

LED lighting - Standard: Yellow gold / Optional: Green

### Standard



20 TYPE

21 TYPE

64 TYPE

82 TYPE

## HALL BUTTON

D: DOT TYPE / L: LCD TYPE

### Boxless Type



HTB-C100 / HIT-DC100 / HIT-LC100

HPB-B64F / HIP-DB64F

(Touchless foot button)

\* 90 TYPE buttons not applicable to box type hall buttons.



HPB-B64 / HIP-DB64

HPB-A64 / HIP-DA64

HPB-821 / HIP-D821

\* 90 TYPE buttons not applicable to box type hall buttons.

### Box Type

D: DOT TYPE / L: LCD TYPE



HPB-221 / HIP-D221

HPB-364A

HPB-364B

# FIXTURES DESIGN

## INDICATOR

D: DOT TYPE / L: LCD TYPE

### Box Type



PI-L210

\* Applicable only center open and at car inside.



PI-D110/PI-D310



PI-D600/PI-D610



PI-D800

### Boxless Type



PI-L900



PI-D900



PI-D700

## CEILING

### Deluxe



CD319A



CD399A

\* Emergency function available on models > CB 1500

### Standard



CD191A



CD191B

\* Emergency function available on models > CB 1400



CD199A

\* Emergency function available on models > CB 1500



CD199B



CD219A

\* Emergency function available on models > CB 1400



CD253A

\* Emergency function available on models > CB 1400



CD451B

\* Colors printed in this catalog may appear different from actual colors.  
\* Ceilings without the "Emergency Function" label cannot be used for emergencies.

## HALL LANTERN

### Box Type



HLS-640 / HLS-D640

HLS-750 / HLS-D750

HLS-770 / HLS-D770

### Boxless Type

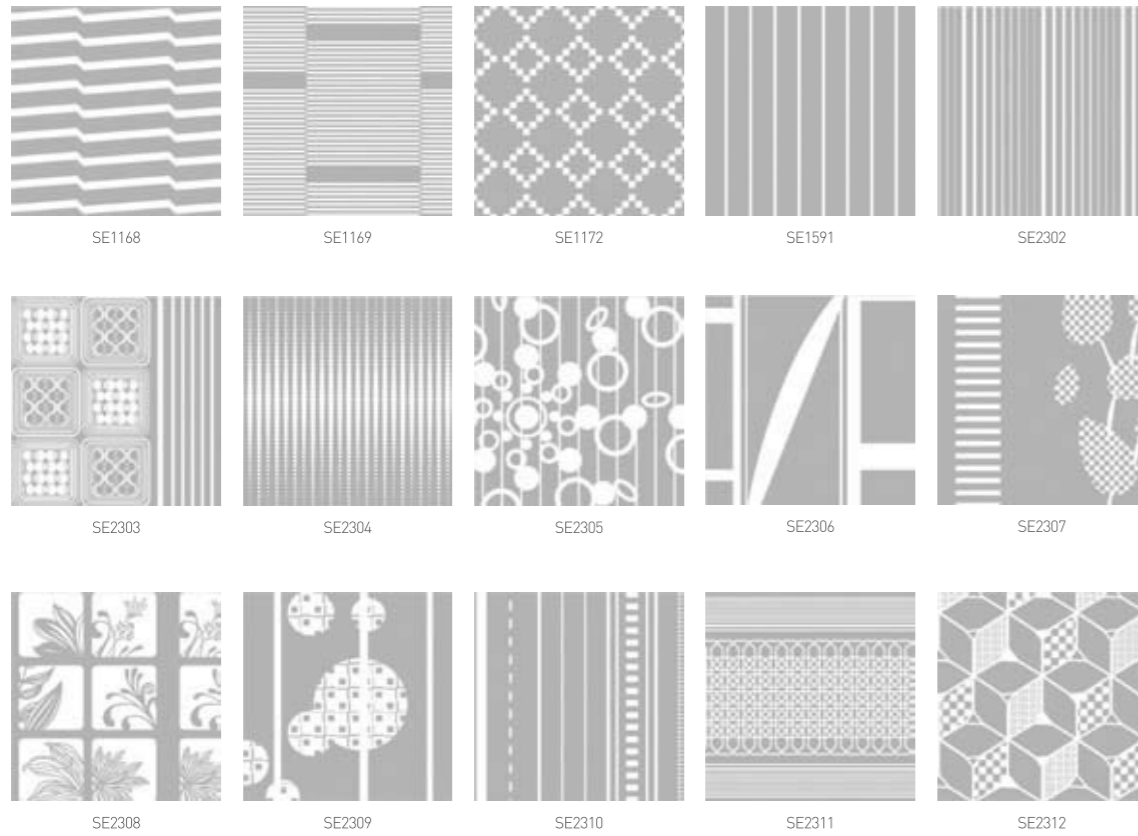


HLS-790 / HLS-D790

# FIXTURES DESIGN

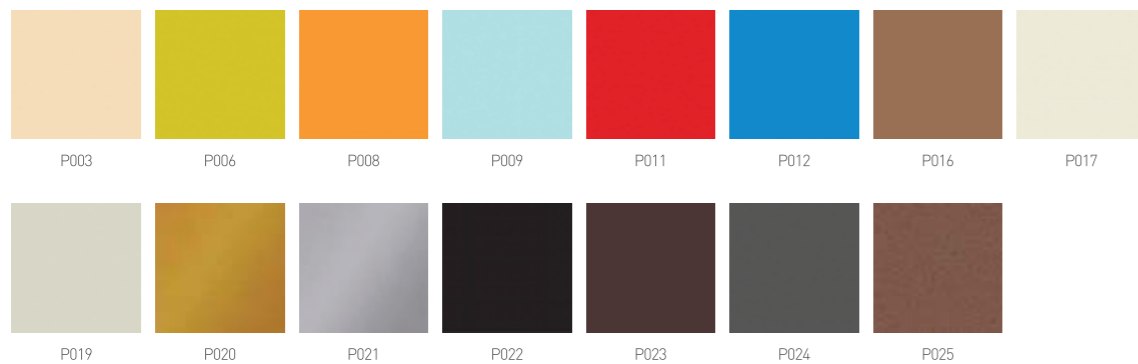
## ETCHING PATTERN

\* Etching patterns in this catalog are 1/3 of the actual size.  
 ■ ■ ■ Relief / □ □ □ Engraving of etched parts



## PAINTED STEEL

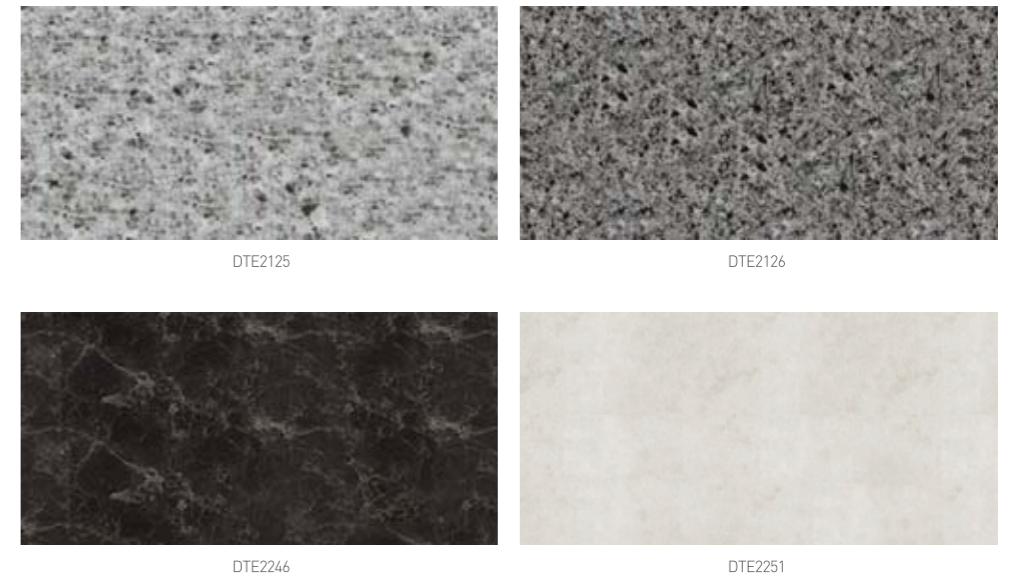
\* Colors printed in this catalog may appear different from actual colors.  
 \* P016, P020, and P021 are metallic colors and may appear different from the actual colors.



## FLOOR

\* Colors printed in this catalog may appear different from actual colors.

### Deco tile



## HANDRAIL

\* Colors printed in this catalog may appear different from actual colors.  
 \* FA-type handrails are not available in elevators for the handicapped.

### Antiviral handrails



### Regular handrails

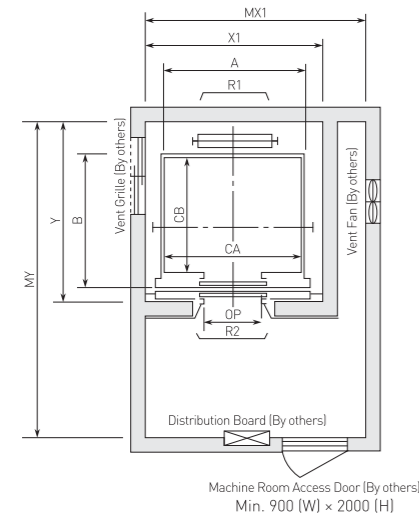


Antiviral material construction protects passengers from harmful viruses which can contaminate handrails due to frequent use.

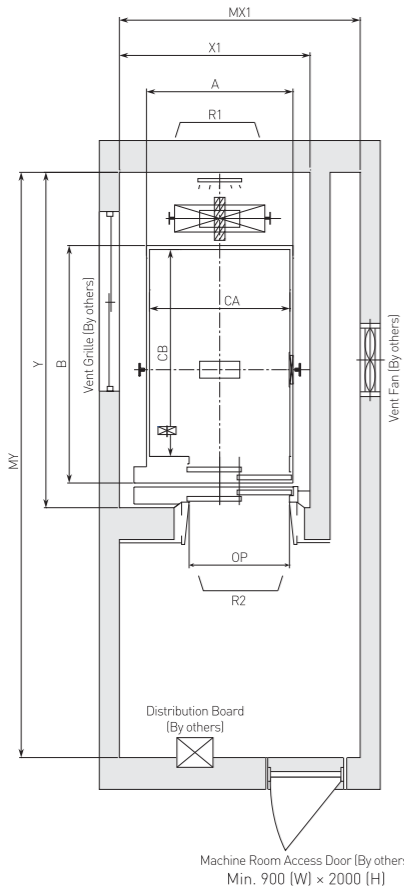
# Hoistway Plan and Section

Hyundai Elevator's top technicians design spaces that maximize satisfaction

## Plan of the Hoistway & Machine Room

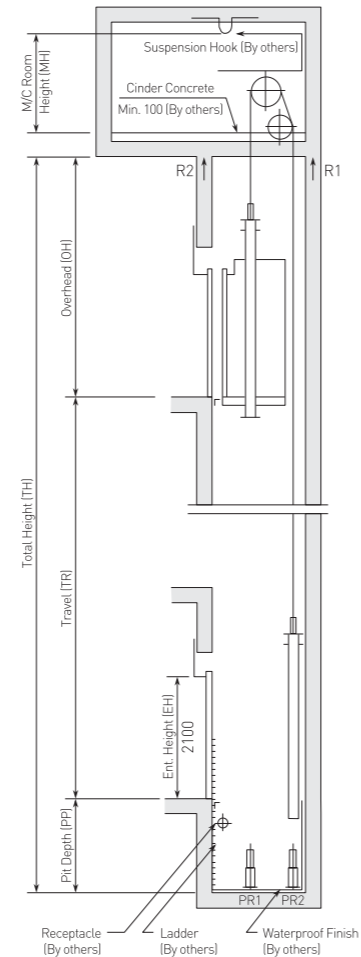


1S-CO



2S-SO

## Section of the Hoistway



## Standard Dimensions & Reactions

Center Open (Unit: mm)

Capacity Persons	kg	Speed (m/sec)	Opening Type	Door Width (mm)		Car Insize (mm)		Hoistway Size (mm)		Machine Room Size (mm)		M/C Room Reaction (kg)		Pit Reaction (kg)	
				OP	OP	CA × CB	CA × CB	X1 × Y	X1 × Y	MX1 × Y	MX1 × Y	R1	R2	PR1	PR2
6	450			800	800	1400 × 850	1400 × 850	1800 × 1500	1800 × 1500	2100 × 3150	3600	2000	5400	4500	
				700	700	1100 × 1100	1100 × 1100	1550 × 1750	1550 × 1750	1900 × 3400	3600	2000	5400	4500	
8(7)	550(525)			800	800	1400 × 1030	1400 × 1030	1800 × 1650	1800 × 1650	2100 × 3350	4050	2250	6000	4900	
				800	800	1300 × 1100	1300 × 1100	1800 × 1750	1800 × 1750	1800 × 3400	4050	2250	6000	4900	
9(8)	600(630)			800	800	1400 × 1100	1400 × 1100	1800 × 1750	1800 × 1750	2100 × 3400	4100	2450	6300	5100	
				800	800	1100 × 1400	1100 × 1400	1800 × 2000	1800 × 2000	1800 × 3500	4100	2450	6300	5100	
10(9)	700(675)	1.0	1S-CO	800	800	1400 × 1250	1400 × 1250	1800 × 1850	1800 × 1850	2100 × 3550	4200	2700	6800	5400	
				800	800	1400 × 1350	1400 × 1350	1800 × 1950	1800 × 1950	2100 × 3650	4550	2800	7100	5600	
11(10)	750(800)	1.5	1S-CO	800	800	1400 × 1350	1400 × 1350	1800 × 2000	1800 × 2000	2100 × 3650	4550	2800	7400	5800	
				900	900	1600 × 1350	1600 × 1350	2050 × 2000	2050 × 2000	2350 × 3700	5100	3750	8100	6300	
13(12)	900	1.75	1S-CO	900	900	1600 × 1500	1600 × 1500	2050 × 2150	2050 × 2150	2350 × 3850	5450	4300	8600	6600	
				900	900	1100 × 2100	1100 × 2100	2050 × 2000	2050 × 2000	2050 × 2000	5450	4300	8600	6600	
15(13)	1000			1000	1000	1800 × 1500	1800 × 1500	2350 × 2200	2350 × 2200	2650 × 3900	6600	5100	11000	8700	
				900	900	1200 × 2200	1200 × 2200	2250 × 2600	2250 × 2600	2600 × 4000	6600	5100	11000	8700	
20(18)	1350			1000	1000	1800 × 1700	1800 × 1700	2350 × 2400	2350 × 2400	2650 × 4100	7800	6000	12200	9500	
				1100	1100	2000 × 1500	2000 × 1500	2550 × 2250	2550 × 2250	2850 × 3900	8500	6800	13600	10400	
24(21)	1600			1100	1100	2000 × 1750	2000 × 1750	2550 × 2500	2550 × 2500	2850 × 4150	8500	6800	13600	10400	
				1100	1100	2150 × 1600	2150 × 1600	2750 × 2350	2750 × 2350	3000 × 4000	8500	6800	13600	10400	
13(12)	900			900	900	1600 × 1350	1600 × 1350	2200 × 2100	2200 × 2100	2700 × 4100	12030	6630	9000	7500	
				900	900	1600 × 1500	1600 × 1500	2200 × 2250	2200 × 2250	2700 × 4250	12800	6950	9400	8000	
15(13)	1000			1000	1000	1800 × 1500	1800 × 1500	2400 × 2250	2400 × 2250	2900 × 4250	13080	7100	11000	8700	
				900	900	1200 × 2200	1200 × 2200	2300 × 2600	2300 × 2600	2800 × 4100	13080	7100	11000	8700	
20(18)	1350	2.0	1S-CO	1000	1000	1800 × 1700	1800 × 1700	2400 × 2450	2400 × 2450	2900 × 4450	14350	7650	12200	9500	
				1100	1100	2000 × 1500	2000 × 1500	2600 × 2250	2600 × 2250	3100 × 4250	14350	7650	12200	9500	
24(21)	1600	2.5	1S-CO	1100	1100	2000 × 1750	2000 × 1750	2600 × 2450	2600 × 2450	3100 × 4500	15100	8100	13600	10400	
				1100	1100	2150 × 1600	2150 × 1600	2750 × 2350	2750 × 2350	3250 × 4350	15100	8100	13600	10400	

## Side Open

(Unit: mm)

Capacity Persons	kg	Speed (m/sec)	Opening Type	Door Width (mm)		C.WT Drop	Car Insize (mm)		Hoistway Size (mm)		Machine Room Size (mm)		M/C Room Reaction (kg)				Pit Reaction (kg)			
				OP	OP		CA × CB	CA × CB	X1 × Y	X1 × Y	MX1 × Y	MX1 × Y	R1	R2	R3	R4	R1	R2	R3	R4
6	450			800	800	Rear	1100 × 1100	1100 × 1100	1550 × 1800	1550 × 1800	1800 × 3600	3600	2000	5400	4500					
				800	800	Rear	1100 × 1300	1100 × 1300	1550 × 2000	1550 × 2000	1800 × 3800	4050	2250	6000	4900					
8(7)	550(525)			800	800	Side	1100 × 1400	1100 × 1400	1850 × 1850	1850 × 1850	1800 × 3800	4100	2450	6300	5100					
				800	800	Side	1200 × 1400	1200 × 1400	1950 × 1850	1950 × 1850	2100 × 3800	4200	2700	6800	5400					
9(8)	600(630)			800	800	Side	1300 × 1400	1300 × 1400	2050 × 1850	2050 × 1850	2200 × 3800	4550	2800	7100	5600					
				900	900	Side	1300 × 1600	1300 × 1600	2050 × 2050	2050 × 2050	2200 × 4200	5100	3750	8100	6300					
10(9)	700(675)	1.0	2S-SO	900	900	Side	1100 × 2100	1100 × 2100	1900 × 2550	1900 × 2550	2200 × 4350	5450	4300	8600	6600					
				1100	1100	Rear	2100 × 1100	2100 × 1100	2550 × 1850	2550 × 1850	2850 × 3900	6600	5100	11000	8700					
12(10)	800	1.5	2S-SO	1000	1000	Side	1200 × 2100	1200 × 2100	2150 × 2600	2150 × 2600	2400 × 4400	6600	5100	11000	8700					
				1100	1100	Side	1300 × 2300	1300 × 2300	2250 × 2750	2250 × 2750	2550 × 4500	7800	6000	12200	9500					
13(12)	900	1.75	2S-SO	1200	1200	Side	1400 × 2400	1400 × 2400	2350 × 2850	2350 × 2850	2650 × 4600	8500	6800	13600	10400					
				900	900	Side	1300 × 1600	1300 × 1600	2250 × 2100	2250 × 2100	2550 × 4150	12030	6630	9000	7500					
15(13)	1000			900	900	Side	1100 × 2100	1100 × 2100	2000 × 2550	2000 × 2550	2300 × 4600	12800	6950	9400	8000					
				1100	1100	Rear	2100 × 1100	2100 × 1100	2700 × 1900	2700 × 1900	3000 × 3950	13080	7100	11000	8700					
17(15)	1150	2.0	2S-SO	1000	1000	Side	1200 × 2100	1200 × 2100	2200 × 2600	2200 × 2600	2500 × 4650	13080	7100	11000	8700					
				1100	1100	Side	1300 × 2300	1300 × 2300	2300 × 2750	2300 × 2750	2600 × 4800	14350	7650	12200	9500					
20(18)	1350	2.5	2S-SO	1100	1100	Side	1300 × 2300	1300 × 2300	2400 × 2850	2400 × 2850	2700 × 4900	15100	8100	13600	10400					
				1200	1200	Side	1400 × 2400	1400 × 2400	2400 × 2850	2400 × 2850	2700 × 4900	15100	8100	13600	10400					

- ▲ Note:
- The table of dimensions as per Hyundai standard or EN81, For other country codes and spec requirements, Please contact us.
  - If apply the safety gear on Counterweight side, please contact us
  - If apply through 180 degree type, please consult with us.
  - Rail Bracket Pitch: Applied with 2,000mm for 2.0m/s (with Travel 110~150m) & 2.5m/s
  - The Hoistway dimensions width & depth are based on clear dimension ±20mm horizontal tolerances over the total hoistway height
  - { } : Noted Rated Capacity and number of Person(Ps), as required by EN81

## Overhead & Pit Depth

(Unit: mm)

Duty Load (kg)	Speed (m/s)	Overhead (OH) <sup>No.2</sup>		Pit Depth (PP)	M/C Room Height (MH)
		EN81-1	EN81-20		
450	1.0	CH+1850	CH+2300	1250	2200
	1.5	CH+2000	CH+2400	1350	2400
	1.75	CH+2050	CH+2450	1400	2400
	2.0	CH+2200	CH+2600	1900 <sup>No.3</sup>	2600
1150	2.5	CH+2600	CH+2800	2200 <sup>No.3</sup>	2600
	1.0	CH+1850	CH+2300	1350	2200
	1.5	CH+2000	CH+2400	1450	2400
	1.75	CH+2050	CH+2450	1500	2400
1350	2.0	CH+2200	CH+2600	2000 <sup>No.3</sup>	2600
	2.5	CH+2600	CH+2800	2200 <sup>No.3</sup>	2600

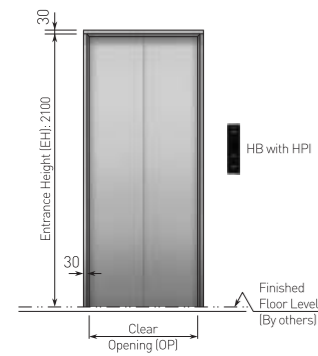
- ◀ Note:
- Above dimensions are applied base on EN81-1 & EN81-20.
  - For OH: Base on the distance between the car top safety guard and shaft wall is less than 500mm. The above 500mm, OH should be added 400mm for EN81-20
  - In case of Travel is above 120m, Pit depth should be increased. Please contact us
  - M/C room height shall be increased 200mm in case of the traction machine with double isolation pad.
  - Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner (if necessary) and humidity below 90%.
  - If the height of non-stop floor is over 11m, please consult Hyundai as to the needs for emergency exit.



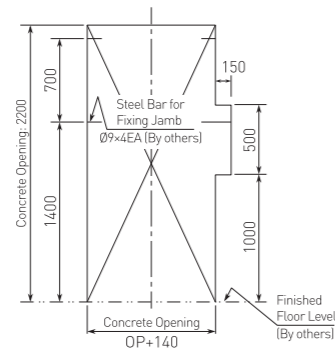
# Entrance Layouts

Taking into consideration space utility and passenger comfort to optimize entrance layouts

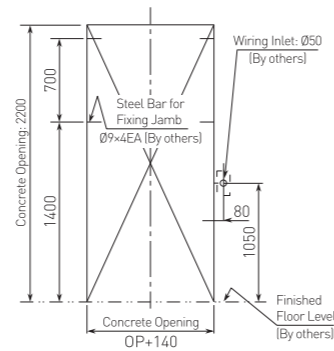
## Entrance Plans



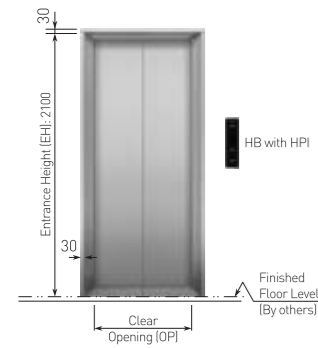
JP050 TYPE (Standard)



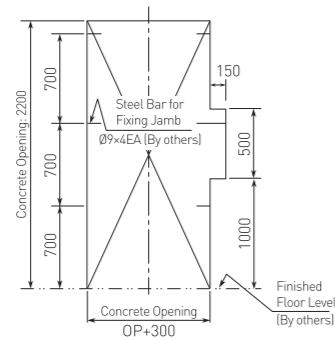
For box-type buttons



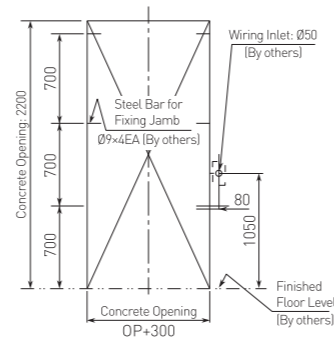
For boxless buttons



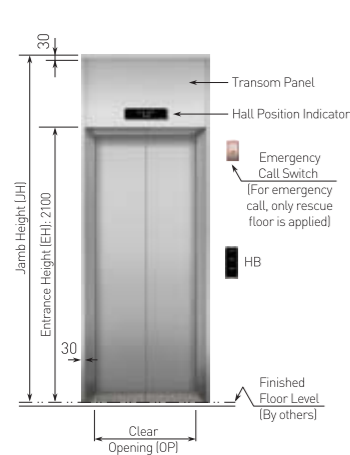
JP100 TYPE (Standard)



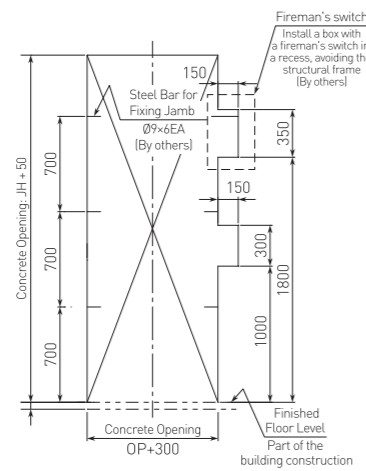
For box-type buttons



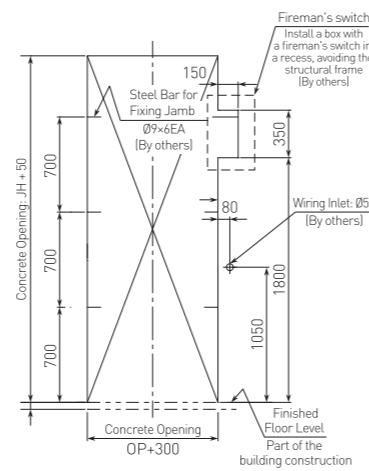
For boxless buttons



JP200U TYPE (Optional)



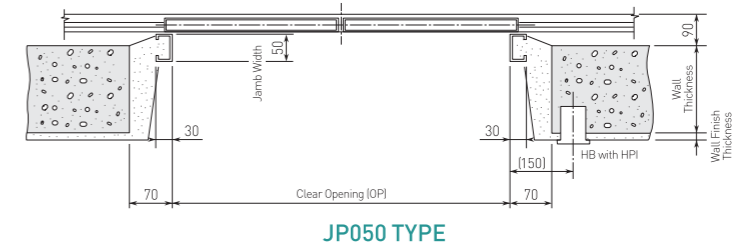
For box-type buttons and fireman's switch (Rescue floor)



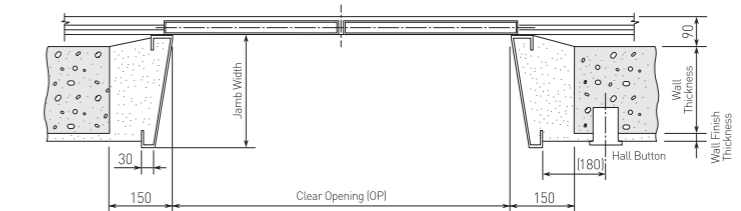
For boxless buttons and fireman's switch (Rescue floor)

## Plan of Entrance

Building Structure (By others) Wall and Floor Finishing (By others)



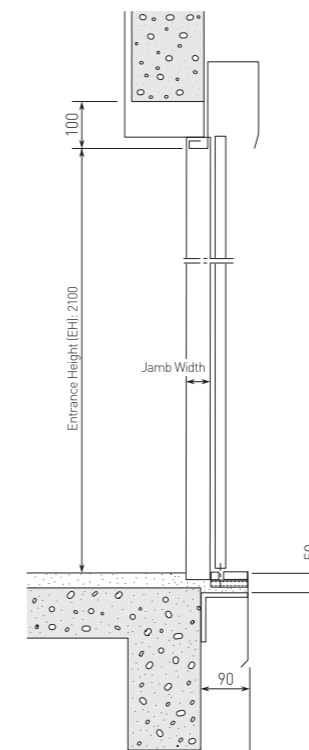
JP050 TYPE



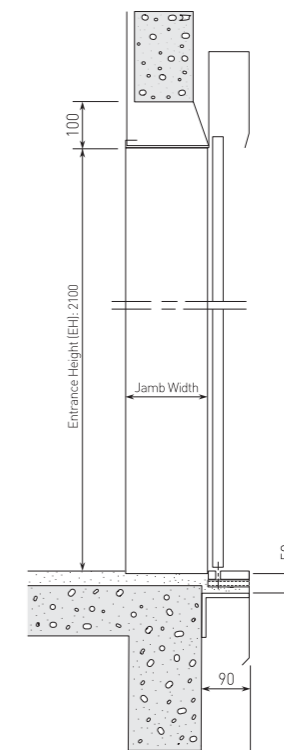
JP100, JP200U TYPE

## Section of Entrance

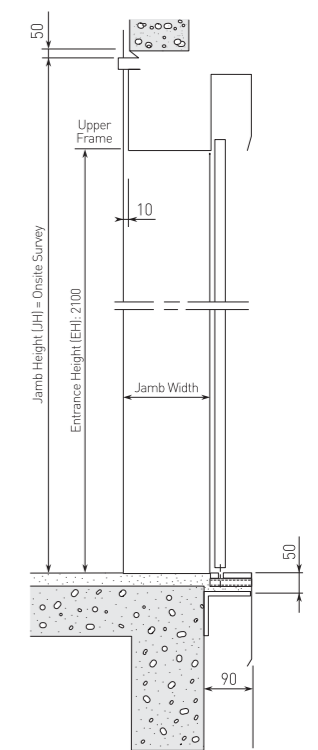
Building Structure (By others) Wall and Floor Finishing (By others)



JP050 TYPE



JP100 TYPE



JP200U TYPE

# Constructions Excluded from Our Supply Scope

Construction and electric work not included in the elevator contract

## Construction Work

### Hoistway

- Forming holes on the wall surrounding the exit on each floor (exit, hall button, hall lantern, etc.), and finishing the walls and floors after installing the elevator. (including mortar filling)
- Installation of steel frame to fix the left/right jambs on the exit.
- Installation of ladder for pit inspection.
- Waterproofing work inside the pit and finishing work after attaching the buffer
- Installation of hoistway partitions or separating beams (when necessary)
- Removing various tie pins and molds.
- Others. (items indicated on the floor plan)
- Construction of concrete structures (thickness of 150 mm or above) or beam structures that can fasten the rail brackets in the hoistway wall.
- Supplying storage for construction tools and materials free of charge.
- Destruction and finishing of concrete structures that are not constructed as indicated on the blueprint.

- Installation of lighting within hoistway. (install lighting of 100 Lux or above on upper and lower part of the hoistway)
- Installation of tensile beam or hook that is designed to lift the machine to the ceiling of hoistway.

### Machine Room

- Forming holes for machines and ropes on the floor, finishing on cinder concrete, and installation of those indicated on the floor plan.
- Installation of pulley beam or hook on the ceiling of machine room.
- Installation of reinforcement beam on machine room floor. (when necessary)
- Supplying water used for construction free of charge.
- Supplying storage for construction tools and materials free of charge.

## Electric Work

### Hoistway

- Installation of natural or artificial lighting of 50 Lux or above (measured from the floor) on platform of each floor. (150 Lux in case of an elevator for the handicapped)
- Piping and wiring work from monitoring panel to hoistway when monitoring panel is installed.
- Piping and wiring work when CCTV is installed.
- Others. (items indicated on the floor plan)
- Wiring work on power system within the hoistway for supplying power and lighting. (refer to the floor plan for building power facilities regarding the capacity of power facilities.)
- Installation of distribution box for elevator (including N.F.B) on electrical room. (install near the hoistway, refer to the floor plan for building power facilities regarding the capacity of power facilities.)
- Construction for power facilities to maintain the voltage regulation of distribution source within +5% to -10% and lighting within ±2%.
- Piping and wiring work on lighting outlet for pit inspection.
- Supplying power needed during installation and commissioning free of charge.
- Piping and wiring work on emergency communication device between elevator control panel, central control.  
(Wire specifications: UTP 0.5 mm × 2 P per each elevator)

- Communication device that connects the inside and outside of the elevator should be installed redundantly on the area where the managing personnel is stationed (security office, electric room, and central control room). In case of the facility where the managing personnel is stationed in only one place, however, only one communication device may be installed.
- Also, a communication device that automatically requests for help to maintenance company or self-inspector should be installed in order to deal with the situation where the internal communication is not established.

### Machine Room

- Piping and wiring work outside the hoistway for the installation of emergency call equipment (intercom) in a place other than the machine room.
- Construction of lighting and lighting outlets for inspection in machine room.
- Supplying power needed during installation and commissioning free of charge.
- Installation of lighting for power system and cage, and construction of machine room incoming panel and its wiring for emergency power.
- Installation of permanent lighting that can be separated from the power for elevator and provide light of 200 Lux or above from the floor in machine room.

## Matters to Note

- Exit for machine room should be made of fire-proof material and should be installed in a structure that does not lead to other places.
- Do not install ducts or pipes for other purposes (electricity, water, gas, hydrant) on the hoistway and walls inside the machine room.
- Lower part of pit should not be used as residence, pathway, or for other purposes.
- Power and voltage regulation should be within +5% to -10%.
- Temperature in machine room should be 40 °C and humidity should be 90% or below. Be sure to install the entilation window, ventilator, or other airconditioning facilities to prevent generation of dust or poisonous gas inside the machine room.

- ※ When you wish to build the hoistway in steel frame, please contact us. (Steel frame construction for hoistway is excluded from our supply scope.)
- ※ Construction errors: Inner hoistway size that is indicated on the blueprint of this catalog is the minimum size that is designed to fit the size of the elevator interior. So, the construction error limit for hoistway width and overall height is ±30 mm.
- ※ Calculation equation for heat generation in machine room. (based on one elevator)

Q: (kcal/H) = W × V × F × N  
 W: Loading capacity (kg)  
 V: Rated speed (m/min)

N: Number of elevators  
 F: Coefficient based on control type (1/42: VVVF)

\* Following construction and electric works are not included in our supply scope for elevators. These should be carried out by the building construction companies.

## Power Supply Plan

[380V]

Load (kg)	Speed (m/sec)	Motor Capacity (kW)	MCCB Capacity of Building (A)		Power Supply Capacity (kVA)		Power Cable Size (mm <sup>2</sup> )		Earth Wire Size (mm <sup>2</sup> )	
			1 Car	2 Cars	1 Car	2 Cars	1 Car	2 Cars	1 Car	2 Cars
450	1.0	2.8	20	20	6	11	4	4	6	6
	1.5	4.2	20	30	7	14	4	6	6	6
	1.75	4.9	20	30	9	18	4	6	6	6
550	1.0	3.4	20	20	7	13	7	4	6	6
	1.5	5.1	20	30	9	18	4	6	6	6
	1.75	5.9	20	40	11	21	4	10	6	6
600	1.0	3.7	20	20	7	13	4	4	6	6
	1.5	5.6	20	30	10	19	4	6	6	6
	1.75	6.5	20	40	12	23	4	10	6	6
700	1.0	4.3	20	30	7	14	4	6	6	6
	1.5	6.5	20	40	12	23	4	10	6	6
	1.75	7.5	20	40	13	26	4	10	6	6
750	1.0	4.6	20	30	8	16	4	6	6	6
	1.5	6.9	20	40	12	24	4	10	6	6
	1.75	8.1	30	50	14	28	6	16	6	10
900	1.0	5.6	20	30	10	19	4	6	6	6
	1.5	8.3	30	50	14	28	6	16	6	10
	1.75	9.7	30	60	17	34	6	16	6	10
	2.0	11.1	30	60	20	39	6	16	6	10
	2.5	14.8	50	100	25	50	16	35	10	16
1000	1.0	6.2	20	40	11	21	4	10	6	6
	1.5	9.2	30	50	16	31	6	16	6	10
	1.75	10.8	30	60	19	37	6	16	6	10
	2.0	12.3	40	75	21	42	10	25	6	16
	2.5	16.4	50	100	28	55	16	35	10	16
1150	1.0	7.1	20	40	12	24	4	10	6	6
	1.5	10.6	30	60	19	37	6	16	6	10
	1.75	12.4	40	75	21	42	10	25	6	16
	2.0	14.1	40	75	25	49	10	25	6	16
	2.5	18.8	60	100	32	63	16	35	10	16
1350	1.0	8.3	30	50	14	28	6	16	6	10
	1.5	12.4	40	75	22	44	10	25	6	16
	1.75	14.5	40	100	26	51	10	35	6	16
	2.0	16.6	50	100	29	57	16	35	10	16
	2.5	22.1	75	125	37	74	25	50	16	25
1600	1.0	9.8	30	60	18	36	6	16	6	10
	1.5	14.7	40	100	26	51	10	35	6	16
	1.75	17.2	50	100	30	59	16	35	10	16
	2.0	19.7	60	125	35	69	16	50	10	25
	2.5	26.2	75	125	39	77	25	50	16	25

- ▲ Note:
- 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.
  - Above cable sizes are for copper wires inside electrometallic tubings.  

$$\text{Cable size (mm}^2\text{)} = \frac{\text{Cable length (m)}}{50} \times \text{Size in the above (mm}^2\text{)}$$
  - For power requirement of 3 cars or more, consult Hyundai.
  - Machine room temperature should be maintained below 40 °C with ventilating fan and air conditioner, and below 90%.

# Standard & Optional Features

Feature	Description	Standard	Optional
<b>Simplex Selective Collective Operation</b>	Operation is carried out completely automatically when a call is registered.	◆	
<b>Car Door Safety Edge with Single Side</b>	A safety edge that runs down the full height of the door causes the door to reopen when it detects a person or obstacle while closing.	◆	
<b>Automatic Car Light &amp; Fan Turn-off</b>	Car illumination and fan are turned off automatically when the car is idle to save energy.	◆	
<b>Landing Door Interlock Switch</b>	A switch integrated into the door operator prevents the car from moving when the doors are open. It locks doors completely while the car is operating to impede the opening of doors from the outside.	◆	
<b>Interphone (Intercom)</b>	An interphone system provides emergency communication between passengers in the car and personnel in the machine room, maintenance room, or security office.	◆	
<b>Overload Holding Stop</b>	A buzzer sounds and the car does not operate when passenger load exceeds maximum capacity. The buzzer stops, doors close, and the elevator starts to operate when passengers get off and weight is brought below the limit.	◆	
<b>Safety Drive Operation</b>	If a car stops between floors during normal operation and the safety device does not work, the car will automatically move to the nearest floor at a low speed, open its doors, and allow passengers to get off.	◆	
<b>Parking Operation</b>	Elevators can be automatically parked at a predetermined floor with doors closed and lights and ventilation turned off.		◆
<b>Multi-beam Device for Car Doors</b>	Multi-beams from the top to the bottom of the door detect obstructions and force the door to remain open or to reopen before it hits the obstruction.		◆
<b>Anti- nuisance Operation</b>	When there is a significantly larger number of calls registered than the number of passengers, the elevator prevents unnecessary operation by canceling all calls entered after it arrives at the nearest floor.		◆
<b>Emergency Fire Operation</b>	Cars return to a predetermined floor in the event of fire to help evacuate passengers safely.		◆
<b>Voice Synthesizer</b>	A voice synthesizer directs passengers with audible operational information, such as car direction, floor landed, and emergency alerts.		◆
<b>Self-generated Power Operation</b>	Power is supplied from the building's power generator and elevators operate under emergency power mode during power outages.		◆
<b>Emergency Fireman's Service</b>	Firemen can use elevators parked at a specific floor to support fire-fighting operations in the event of a fire.		◆
<b>ELD (Emergency Landing Device)</b>	Elevators are sent to the nearest floor using power from a rechargeable battery when power outages occur and there is no emergency power in order to prevent trapping passengers.		◆
<b>Attendant Operation</b>	The elevator's operating mode can be switched from its regular automatic mode to manual mode using the attendant's switch on the COP.		◆
<b>Emergency Earthquake Operation</b>	An earthquake sensor detects tremors and forces the elevator to stop at the nearest floor with its door fully open, preventing further operation.		◆

▲ **Note:** For more information on the operation and additional service functions, please contact Hyundai Elevator.



# GLOBAL NETWORK

You can meet hyundai elevator at landmarks in major cities all around the world.

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