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# PASSENGER ELEVATORS

# **YZER-1, LUXEN-1** [60~150 m/min.]

# Maximize your building's value with Hyundai Elevator.

Hyundai Elevator offers elevators that can help maximize a building's value while taking into consideration future sustainability. Its Yzer-1 and Luxen-1 models use advanced technology and know-how to deliver an exceptional mobility experience that is comfortable, efficient, and eco-friendly in an elegant design.

# Why Hyundai Elevator?

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



# Strengthening Technological Leadership With a Solid Platform Based on Trust

With smart factories in Korea and China, Hyundai Elevator aims to further improve its world-class elevator technology with manufacturing and product quality innovations that correspond to the Fourth Industrial Revolution. It plans to lead the future elevator market with creative technologies and products such as carbon fiber, belt-type elevators.

THE EL 1,260 m/min. High Speed Elevator World-class 1,260 m/min.

The World's First 1,260 m/min. Application of Carbon Fiber Belt-type Technology

# Certification







01

SO 14001

SO 45001





CE LUXEN-1 (STVF9)



# A Production System and Sales Network that Span Across Borders

# New Chungju Headquarters (Chungju, Korea)

The new factory in Chungju consists of a smart factory that incorporates quaternary industry technologies (such as IoT, big data, and artificial intelligence), an R&D center, a logistics center, and the world's tallest elevator test tower (300 m high). It will have a production capacity of 25,000 units per year.

- Scheduled to be completed in February 2022
- 173.098 m<sup>2</sup> state-of-the-art facilities
- Production of elevators, parking systems, etc.
- The world's tallest elevator test tower (total height 300 m)
- Hyundai Customer Care Center (CCC)

### New China Factory (Shanghai, China)

The Shanghai campus is equipped with a smart factory with a production capacity of 25,000 units per year, a test tower for quality checks of high-speed and observation elevators, an R&D center, and a customer care center. Hyundai Elevator will build its competitiveness in the world's largest elevator market with cutting-edge technology, steady product improvements, and cutting-edge smart factories.

- Completed smart factory in March 2021
- 105,517 m<sup>2</sup> state-of-the-art facilities
- Production of elevators and escalators
- Elevator test tower

(total height 185 m; 175 m above the ground)

# **Overseas Subsidiaries**

ChinaHyundai Elevator (Shanghai) Co., Ltd.IndonesiaPt. Hyundai Elevator IndonesiaMalaysiaHyundai Elevator (Malaysia) Sdn. BhdBrazilHyundai Elevadores do Brasil Ltda.

Vietnam Hyundai Thanh Cong Elevator Vietnam Co.,

mited

**Turkey** Hyundai Elevator Asansör Ve Servis Sanayi Ve

Ticaret Anonim Şirketi



Images of the buildings and surroundings of the test tower have been modified to help viewers' understanding. Features such as the materials, design, and Cl may differ from reality.

# SIGNATURE PROJECTS





















A rich portfolio of projects around the world demonstrates the added value that Hyundai Elevator can offer.

1 BUSAN INTERNATIONAL FINANCE CENTER (KOREA)

Thirty-two elevators, including two 10 m/sec. (the fastest in Korea), three 9 m/sec., eight 8 m/sec., and six 6 m/sec. units as well as fourteen escalators.

2 GALLERY WEST (INDONESIA)

Twenty-three elevators, including four 4 m/sec. units as well as ten escalators.

**3** F&F TOWER (PANAMA)

Five 4 m/sec. elevators.

4 METROPOL ISTANBUL (TURKEY)

Ninety-five elevators, including six 6 m/sec., one 5 m/sec., and eighteen 4 m/sec. units as well as twenty-six escalators.

5 KEANGNAM HANOI LANDMARK TOWER (VIETNAM)

Twenty-nine elevators, including two 4 m/sec. units as well as twenty-seven escalators.

**6** VISTANA TROPIKA SPACE RESIDENCY (MALAYSIA)

Twenty-three elevators, including six 5 m/sec., four 4 m/sec., and three 3 m/sec. units as well as two escalators.

7 YANGON HOTEL (MYANMAR)

Twenty elevators, including five 3 m/sec., two 2.5 m/sec., and six 2 m/sec. units.

8 PARK HYATT BUSAN (KOREA)

Eleven elevators, including two 6 m/sec., three 4 m/sec., and two 3.5 m/sec. units.

9 LG U<sup>+</sup> YONGSAN OFFICE BUILDING (KOREA)

Ten elevators, including two 4 m/sec. double deck elevators (the first in Korea), four 4 m/sec. units, two 3.5 m/sec. units, and two escalators.

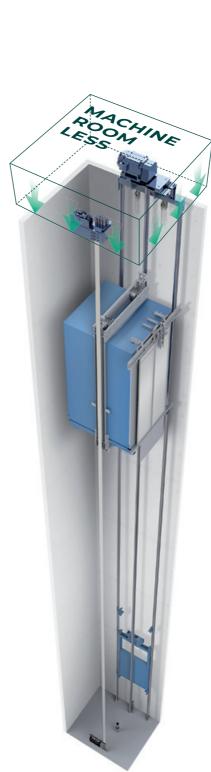
10 VARYAP MERIDIAN (TURKEY)

Sixteen elevators, including seven 4 m/sec. and four 3.5 m/sec. units as well as thirty-six escalators.

**06** HYUNDAI ELEVATOR PASSENGER ELEVATORS **SIGNATURE PROJECTS 07** 



# Minimal Space and Maximum Value



# Enhanced safety through the application of international standards

Ropes that meet international standards ensure safe operation.

# Simple Installation, Fast Delivery

# Rail mounting-type traction system

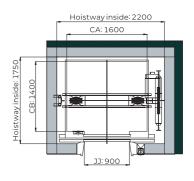
• Eliminates the need for a beam sleeve on top of the hoistway to facilitate installation

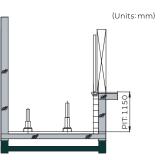
# 20% shorter installation period

- Eliminates the need for footholds at the top and bottom of the hoistway
- Exclusive jigs simplify the installation process



# Less restrictive construction design and lower construction costs





# Minimum hoistway size 21% reduction of the hoistway

21% reduction of the hoistway (1,000 kg capacity elevator)

# Minimum pit depth (1,150 mm)

350 mm reduction in depth (≤ 1,150 kg, 1.0 m/sec.)

# Easier maintenance and improved customer safety

# High-performance, eco-friendly traction machine with a proven track record

- $\bullet \ \ \text{Oil-free traction system does not require regular oiling of the bearing unit}$
- Easier to maintain because on-site brake adjustment is not necessary

# 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.



# 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 **(complies to EN81-20/50 requirements).** 



# Exceptional ride quality and energy efficiency

# High efficiency gearless synchronous traction machine

# **Energy savings**

The gearless synchronous 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 maintanance costs.



# 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.



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







Luxen-1 earned the Association of German Engineers' (VDI) highest Class A energy efficiency ratings from Germany's prestigious testing and certification agency, TÜV SÜD.

# **Eco-friendly LED ceiling**

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

and reduce eye fatigue.

\*Not applicable on certain ceiling options.



# 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 **(complies to EN81-20/50 requirements).** 



HCE (Essence) | HCS (Simple)

# CAR DESIGN

# Diverse car designs match your architectural concepts.

**HCD** (Deluxe)

From the height of the ceiling to the lighting, the color and pattern of walls, and the flooring, cars have been carefully designed to render an elegant and comfortable space. Operating panels and indicators that are easy to use and clean moving solutions that take into consideration the hygienic use of elevators maximize users' satisfaction.



Ceiling	CD-198A/Acryl, LED Downlight,
	Ceiling Plate (Painted Steel / P020)
Front Wall	Painted Steel (P020)
Side Walls	Painted Steel (P020)
Rear Wall	Painted Steel (P020),
	Stainless Mirror Etching (SE1169)
Handrails	1C/Stainless 1Pipe, Chrome Bracket
Car Doors	Painted Steel (P020)
Car Operating Panel	OPP-D521/Stainless Hairline
Flooring	PVC (DTE2125)



# Pattern Detail

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# **ENTRANCE**

200 TYPE	
Jamb	Painted Steel (P020) / 200 Type
Doors	Painted Steel (P020)
Hall Button	HPB-621
Indicator	PI-D600

# 50 TYPE

Jamb	Painted Steel (P020) / 50 Type
Doors	Painted Steel (P020)
Hall Button	HIP-D621
Indicator	-



200 Type

Notes 1. Product and design images have been created to help viewers' understanding. Actual colors may be different from those that are depicted.  $2. For 800\,kg\,models\,and\,smaller, swing-type\,operating\,panels\,may\,not\,be\,applicable\,due\,to\,the\,narrow\,width\,of\,the\,front\,wall.$ 

14 HYUNDAI ELEVATOR PASSENGER ELEVATORS CAR DESIGN 15

Front Image (13-passenger, 1,000 kg capacity unit



Ceiling	CD-199A/Acryl, LED Downlight,
	Ceiling Plate (Painted Steel / P021)
Front Wall	Painted Steel (P009)
Side Walls	Painted Steel (P009),
	Painted Steel (P026)
Rear Wall	Painted Steel (P009),
	Painted Steel (P026)
Handrails	1C/Stainless 1Pipe, Chrome Bracket
Car Doors	Painted Steel (P026)
Car Operating Panel	OPP-D582/Stainless Hairline
Flooring	PVC (TN2601C)



Rear Image

# **ENTRANCE**

# 200 TYPE

Jamb	Painted Steel (P026) / 200 Type
Doors	Painted Steel (P026)
Hall Button	HPB-882/Stainless Hairline
Indicator	PI-D600

# 50 TYPE

Jamb	Painted Steel (P026) / 50 Type
Doors	Painted Steel (P026)
Hall Button	HIP-D882/Stainless Hairline
Indicator	-



200 Type

50 Type

Not

1. Product and design images have been created to help viewers' understanding. Actual colors may be different from those that are depicted.
2. For 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 800 kg models and smaller, swing-type operating panels may not be applicable due to the narrow width of the front wall.

16 HYUNDAI ELEVATOR CAR DESIGN 17

Front Image (13-passenger, 1,000 kg capacity unit)



Ceiling	CD-B31C/Painted Steel (P021), Acryl,
	Ceiling Plate (Painted Steel / P021)
Front Wall	Stainless Hairline
Side Walls	Stainless Hairline, Painted Steel (P024)
Rear Wall	Stainless Hairline, Painted Steel (P024)
Handrails	1C/Stainless 1Pipe, Chrome Bracket
Car Doors	Stainless Hairline
Car Operating Panel	OPP-D521/Stainless Hairline
Flooring	PVC (TN2233C, DTE2246)



Rear Image

# **ENTRANCE**

# 200 TYPE

Jamb	Stainless Hairline / 200 Type
Doors	Stainless Hairline
Hall Button	HPB-621
Indicator	PI-D600

# 50 TYPE

Jamb	Stainless Hairline / 50 Type
Doors	Stainless Hairline
Hall Button	HIP-D621
Indicator	-



200 Type

50 Type

Not

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3. For 800 kg models and smaller, swing-type operating panels may not be applicable due to the narrow width of the front wall.

18 HYUNDAI ELEVATOR CAR DESIGN 19



Ceiling	CD-199A/Acryl, LED Downlight,
	Ceiling Plate (Painted Steel / P021)
Front Wall	Stainless Hairline
Side Walls	Stainless Hairline
Rear Wall	Stainless Hairline
Handrails	1C/Stainless 1Pipe, Chrome Bracket
Car Doors	Stainless Hairline
Car Operating Panel	OPP-D521/Stainless Hairline
Flooring	PVC (TDS5160)



Rear Image

# **ENTRANCE**

# 200 TYPE

Jamb	Stainless Hairline / 200 Type
Doors	Stainless Hairline
Hall Button	HPB-621
Indicator	PI-D600

# 50 TYPE

Jamb	Stainless Hairline / 50 Type
Doors	Stainless Hairline
Hall Button	HIP-D621
Indicator	-



200 Type 50 Type

Notes 1. Product and design images have been created to help viewers' understanding. Actual colors may be different from those that are depicted. 2. For 800 kg models and smaller, swing-type operating panels may not be applicable due to the narrow width of the front wall.

20 HYUNDAI ELEVATOR CAR DESIGN 21

Front Image (13-passenger, 1,000 kg capacity unit)



Ceiling	CD-B31C/Acryl,
	Ceiling Plate (Painted Steel / P021),
	LED Bar Light
Front Wall	Stainless Hairline
Side Walls	Stainless Hairline
Rear Wall	Stainless Hairline, Stainless Mirror
Handrails	1C/Stainless 1Pipe, Chrome Bracket
Car Doors	Stainless Hairline
Car Operating Panel	OPP-N364/Stainless Hairline
Indicator	PI-D90/Smart Indicator
Flooring	PVC (TN2233C, DTE2246)



Rear Image

# **ENTRANCE**

# 200 TYPE

Jamb	Stainless Hairline / 200 Type
Doors	Stainless Hairline
Hall Button	HPB-A64
Indicator	PI-D700

# **50 TYPE**

Jamb	Stainless Hairline / 50 Type
Doors	Stainless Hairline
Hall Button	HIP-DA64
Indicator	-



200 Type 50 Type

Notes 1. Product and design images have been created to help viewers' understanding. Actual colors may be different from those that are depicted. 2. For 800 kg models and smaller, swing-type operating panels may not be applicable due to the narrow width of the front wall.

22 HYUNDAI ELEVATOR CAR DESIGN 23

↑B2

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Front Image (13-passenger, 1,00



Ceiling	CD-199A/Acryl, LED Downlight,
	Ceiling Plate (Painted Steel / P021)
Front Wall	Stainless Hairline
Side Walls	Stainless Hairline,
	Stainless Hairline Etching (SE1169)
Rear Wall	Stainless Hairline, Stainless Mirror
Handrails	HR-01W/Stainless 1Pipe
Car Doors	Stainless Hairline Etching (SE1169)
Car Operating Panel	OPP-D564T (EN) / Stainless Hairline
Flooring	PVC (TDS5160, DTE2126)

<sup>\*</sup>EN81-70:2018 compliant



Rear Image

# Pattern Detail

# **ENTRANCE**

# 200 TYPE

Jamb	Stainless Hairline / 200 Type
Doors	Stainless Hairline Etching (SE1169)
Hall Button	HPB-B64 (EN)
Indicator	PI-D700
Hall Lantern	HLS-770

# 50 TYPE

Jamb	Stainless Hairline / 50 Type
Doors	Stainless Hairline Etching (SE1169)
Hall Button	HPB-B64 (EN)
Indicator	PI-D700
Hall Lantern	HLS-770

<sup>\*</sup>EN81-70:2018 compliant



200 Type

50 Type

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PASSENGER ELEVATORS CAR DESIGN 25

Note

<sup>1.</sup> Product and design images have been created to help viewers' understanding. Actual colors may be different from those that are depicted.
2. For 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 800 kg models and smaller, swing-type operating panels may not be applicable due to the narrow width of the front wall.



Ceiling	CD-199B/Artmetal Silver (AM 01),
	LED Bar Lighting,
	Ceiling Plate (Painted Steel / P021)
Front Wall	Stainless Hairline
Side Walls	Stainless Hairline
Rear Wall	Stainless Hairline, Stainless Mirror
Handrails	FA/Stainless
Car Doors	Stainless Hairline Etching (SE2312)
Car Operating Panel	OPP-N521/Stainless Hairline
Indicator	PI-L210/Smart Indicator
Flooring	PVC (DTE5311, TN2233C)





# **ENTRANCE**

# 200 TYPE

Jamb	Stainless Hairline / 200 Type
Doors	Stainless Hairline Etching (SE2312)
Hall Button	HPB-821
Indicator	PI-D700

# **50 TYPE**

Jamb	Stainless Hairline / 50 Type
Doors	Stainless Hairline Etching (SE2312)
Hall Button	HIP-D821
Indicator	-



50 Type

200 Type

Notes 1. Product and design images have been created to help viewers' understanding. Actual colors may be different from those that are depicted. 2. For 800 kg models and smaller, swing-type operating panels may not be applicable due to the narrow width of the front wall.

26 HYUNDAI ELEVATOR PASSENGER ELEVATORS CAR DESIGN 27



# **CAR DESIGN**

Ceiling	CD-199B/Artmetal Silver (AM 01),
	LED Bar Lighting,
	Ceiling Plate (Painted Steel / P021)
Front Wall	Stainless Hairline
Side Walls	Stainless Hairline
Rear Wall	Stainless Hairline, Stainless Mirror
Handrails	FA/Stainless
Car Doors	Stainless Hairline Etching (SE2312)
Car Operating Panel	OPP-N521/Stainless Hairline





Ceiling	CD-191A/Titanium Gold Beadblast
<u></u>	LED Bar Light,
	Ceiling Plate (Painted Steel / P024)
Front Wall	Titanium Gold Beadblast
Side Walls	Titanium Gold Beadblast,
	Titanium Gold Mirror
Rear Wall	Laminated Steel (Wood/SW01)
Handrails	1C/Titanium Gold 1Pipe (Polished)
Car Doors	Titanium Gold Beadblast
Car Operating Panel	Swing type OPP-L264SW/
	Titanium Gold Beadblast
Flooring	PVC (TDS5160)



# Pattern Detail



# **ENTRANCE**

200	TY	PE	

Jamb	Titanium Gold Beadblast / 200 Type
Doors	Titanium Gold Beadblast
Hall Button	HPB-B64
Indicator	PI-D800

# 50 TYPE

Jamb	Titanium Gold Beadblast / 50 Type
Doors	Titanium Gold Beadblast
Hall Button	HIP-DB64
Indicator	-







200 Type

50 Type

Not

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2. For 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 800 kg models and smaller, swing-type operating panels may not be applicable due to the narrow width of the front wall.

28 HYUNDAI ELEVATOR CAR DESIGN 29

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Front Image (13-passenger, 1,000 kg capacity unit)



Ceiling	CD-219A/Skylite,
	Ceiling Plate (Painted Steel / P022)
Front Wall	Stainless Hairline
Side Walls	Laminated Steel (Wood/SW02)
Rear Wall	Stainless Mirror,
	Stainless Hairline Etching (SE2310)
Handrails	1C/Stainless 1Pipe, Chrome Bracket
Car Doors	Stainless Hairline Etching (SE2310)
Car Operating Panel	Swing Type OPP-N264SW/
	Stainless Hairline
Indicator	PI-L210/Smart Indicator
Flooring	PVC (TN2601C)



# Pattern Detail



# Rear Image

# **ENTRANCE**

# 200 TYPE

Jamb	Stainless Hairline / 200 Type
Doors	Stainless Hairline Etching (SE2310)
Hall Button	HPB-B64
Indicator	PI-D800

# 50 TYPE

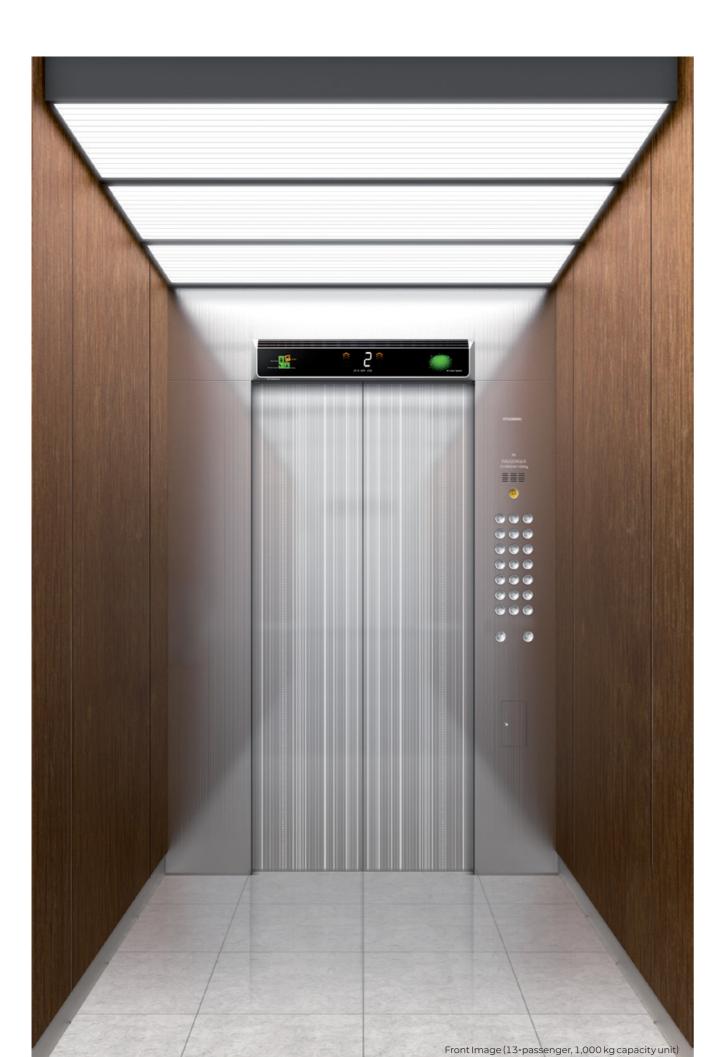
Jamb	Stainless Hairline / 50 Type
Doors	Stainless Hairline Etching (SE2310)
Hall Button	HIP-DB64
Indicator	-



200 Type 50 Type

Notes 1. Product and design images have been created to help viewers' understanding. Actual colors may be different from those that are depicted. 2. For 800 kg models and smaller, swing-type operating panels may not be applicable due to the narrow width of the front wall.

PASSENGER ELEVATORS CAR DESIGN 31





Ceiling	CD-451B/Acryl, Painted Steel (P032),
	Ceiling Plate (Painted Steel / P022)
Front Wall	Stainless Mirror
Side Walls	Stainless Mirror,
	Laminated Steel (Wood/SW02)
Rear Wall	Stainless Mirror Etching (SE526),
	Laminated Steel (Wood/SW02)
Handrails	1FW/Anti-Virus Handrail,
	Chrome Bracket (Korea)
Car Doors	Stainless Mirror
Car Operating Panel	OPP-L5B1/Stainless Hairline
Flooring	PVC (TDS5160)



# Pattern Detail





# **ENTRANCE**

# 200 TYPE

Jamb	Stainless Hairline / 200 Type
Doors	Stainless Hairline Etching (SE526)
Hall Button	HPB-DS1D (Korea)
Indicator	PI-DC (Korea)

# 50 TYPE

Jamb	Stainless Hairline / 50 Type
Doors	Stainless Hairline Etching (SE526)
Hall Button	HIP-DDS1D (Korea)
Indicator	-



200 Type

50 Type

Notes
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3. For 800 kg models and smaller, swing-type operating panels may not be applicable due to the narrow width of the front wall.

PASSENGER ELEVATORS CAR DESIGN 33

Front Image (13-passenger, 1,000 kg capacity to



Ceiling	CD-B32C/Barrisol,
	Painted Steel (P020),
	Ceiling Plate (Painted Steel / P020)
Front Wall	Titanium Bronze Beadblast
Side Walls	Titanium Bronze Beadblast,
	Titanium Bronze Mirror
Rear Wall	Titanium Bronze Beadblast
Handrails	1C/Titanium Bronze 1 Pipe (Polished)
Car Doors	Titanium Bronze Beadblast
Car Operating Panel	Swing Type OPP-N294SW/
	Titanium Bronze Beadblast
	(94Btn. Korea)
Indicator	PI-L210/Smart Indicator
Flooring	PVC (DTE2109, TDS5160)



Rear Image

# **ENTRANCE**

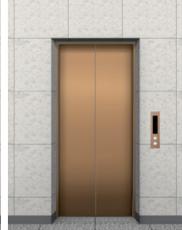
# 200 TYPE

<b>Jamb</b> Titanium Bronze Beadblast / 200 Ty						
Doors	Titanium Bronze Beadblast					
Hall Button	HPB-294/Titanium Bronze Beadblast					
	(94Btn. Korea)					
Indicator	PI-D700					

# 50 TYPE

Jamb	Titanium Bronze Beadblast / 50 Type
Doors	Titanium Bronze Beadblast
Hall Button	HIP-D294/Titanium Bronze Beadblast
	(94Btn. Korea)
Indicator	=





200 Type

50 Type

Not

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2. For 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.
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**34** HYUNDAI ELEVATOR CAR DESIGN 35

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#### $\mathbf{D}$ : DOT TYPE / $\mathbf{L}$ : LCD TYPE **CAR OPERATING PANELS**



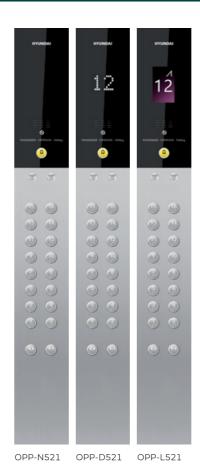
















# **BUTTONS**



21 TYPE













with Welcome sensor



82 TYPF

94 TYPE (Korea)

Touchless Type

# **HANDRAILS**



 $Product \, images \, have \, been \, modified \, to \, help \, viewers' \, understanding. \, Design \, and \, colors \, depicted \, may \, differ \, from \, the \, actual \, products'.$ 

**36** HYUNDAI ELEVATOR PASSENGER ELEVATORS FIXTURES DESIGN 37

# HALL BUTTONS D: DOT TYPE / L: LCD TYPE

## **BOX TYPE**



HIP-LT282C HIP-LT282CW





HPB-294/HIP-D294

# **BOXLESS TYPE**







# INDICATORS D: DOT TYPE / L: LCD TYPE

\* PI-L210 and PID90 are for the inside of the car only.



Applicable to center open only (jj=700, 800, 900, 1000, 1100, 1200)





## **BOXLESS TYPE**





PI-DC (Korea) \* EN81-70:2018

# **HALL LANTERNS**

# **BOX TYPE**

**BOX TYPE** 



# **BOXLESS TYPE**



Notes Product images have been modified to help viewers' understanding. Design and colors depicted may differ from the actual products'.

38 HYUNDAI ELEVATOR PASSENGER ELEVATORS FIXTURES DESIGN 39

# **CLEAN MOVING SOLUTIONS**

# **Motion Call Buttons**

# Touchless call buttons that respond to hand gestures

Buttons used by the public can easily transmit bacteria and viruses. Call buttons that recognize simple hand gestures through motion recognition sensors help to prevent contamination through physical contact.





## Motion sensor type

Motion recognition sensors can be operated without direct contact using upward or downward hand gestures.

\* Virtual images have been used to help viewers' understanding.



# Surface-touch type

Hall buttons can be activated using the elbows when the hands are not free.

\* Virtual images have been used to help viewers' understanding.



# **Touchless Buttons**

# Touchless buttons for safe, contactless operation

Touchless call buttons can detect motion within 10~12 mm to summon elevators or enter destination floors. They are ideal for elevators used by large crowds, such as in hospitals and shopping malls, to prevent viral contamination and transmission through contact.



#### Operation principle

Electrostatic sensors detect the presence of a finger even without contact, activating the button and registering a floor number or call.

\* Virtual images have been used to help viewers' understanding.



# **Touchless Foot Button**

# Call the elevator without using your hands with a touchless foot button

Use your feet to call the elevator using a sensor mounted on the bottom of the hall button. It comes in handy when you are unable to use your hands or when you are carrying luggage.



# Operation principle

The world's first patented foot button comprises of a sensor mounted on the bottom of the hall button that can recognize the motion of feet. The sensor's detection area on the floor is easily recognizable and the sensor beeps when a call is registered.

\* Virtual images have been used to help viewers' understanding.





Product images have been modified to help viewers' understanding. Design and colors depicted may differ from the actual products'.



GLOBAL DESIGN AWARD

40 HYUNDAI ELEVATOR PASSENGER ELEVATORS FIXTURES DESIGN 41

# **CLEAN MOVING SOLUTIONS**

D: DOT TYPE / L: LCD TYPE

# **Car Operating Panels**



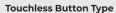
OPP-D5B1/OPP-L5B1



OPP-L2B1SW/OPP-D2B1ASW/OPP-LT2B1SW

# **Hall Buttons**







HTB-AB1/HIT-DAB1/HIT-SAB1

# **Touchless Foot Button Type**



HPB-B64F/HIP-DB64F/HIP-LB64AF

# **Buttons**

**Touchless Button Type** 



В

# **EN81-70**

As an elevator for the handicapped, EN81-70 offers diverse operation panels and buttons specially designed to help people with disabilities to use the elevator safely and conveniently.



# **EN81-72**

EN81-72 meets the requirements of elevators for fire-fighting, incorporating fire-fighting equipment, control devices, and signals.



# **Car Operating Panels**

 $\mathbf{D}$ : DOT TYPE /  $\mathbf{L}$ : LCD TYPE

# **EN81-70**



OPP-D264T/OPP-L264T

OPP-D564T/OPP-L564T

# EN81-72



OPP-BCK481

EN81-72

# **Buttons**

EN81-70





64 TYPE

EN81-72

Hall Buttons

D: DOT TYPE

# EN81-70



HPB-B64/HIP-DB64



HPB-664/HIP-D664



lotes Product images have been modified to help viewers' understanding. Design and colors depicted may differ from the actual products'.

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# **CEILINGS**

\* This is based on the standard safety window size of 500 mm  $\times$  400 mm.



CD-B31C 1100 ≤ CA, 1100 ≤ CB (Safety window is not available)



CD-B32C 1100 ≤ CA, 1100 ≤ CB (Safety window is not available)



CD-113B 1100 ≤ CA ≤ 2100, 1100 ≤ CB ≤ 2100 (Safety window is not available)



CD-191A 1000 ≤ CA, 850 ≤ CB (With safety window: 1100 ≤ CA, 1250 ≤ CB)



CD-198A 1100 ≤ CA, 1000 ≤ CB (safety window is not available)



CD-199A 1100 ≤ CA, 850 ≤ CB (With safety window: 1100 ≤ CA, 1100 ≤ CB)



CD-199B 1000 ≤ CA, 850 ≤ CB (With safety window: 1100 ≤ CA, 1250 ≤ CB)



CD-219A 1200 ≤ CA, 850 ≤ CB (With safety window: 1200 ≤ CA, 850 ≤ CB)



1200 ≤ CA, 850 ≤ CB (With safety window: 1400 ≤ CA, 1200 ≤ CB)

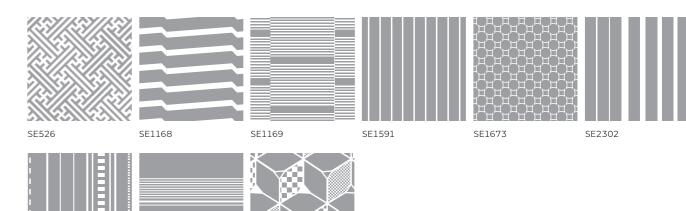


CD-451B 1100 ≤ CA, 1100 ≤ CB (With safety window: 1100 ≤ CA, 1100 ≤ CB)

# **ETCHING PATTERNS**

\* Etching patterns in this catalog are 1/3 of the actual size.

\*■: ♣ Relief/□: ڬ Engraving of etched parts



# **PAINTED STEELS**

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SE2312

SE2311

 $^{\ast}$  P020 and P021 are metallic colors and may appear different from the actual colors.

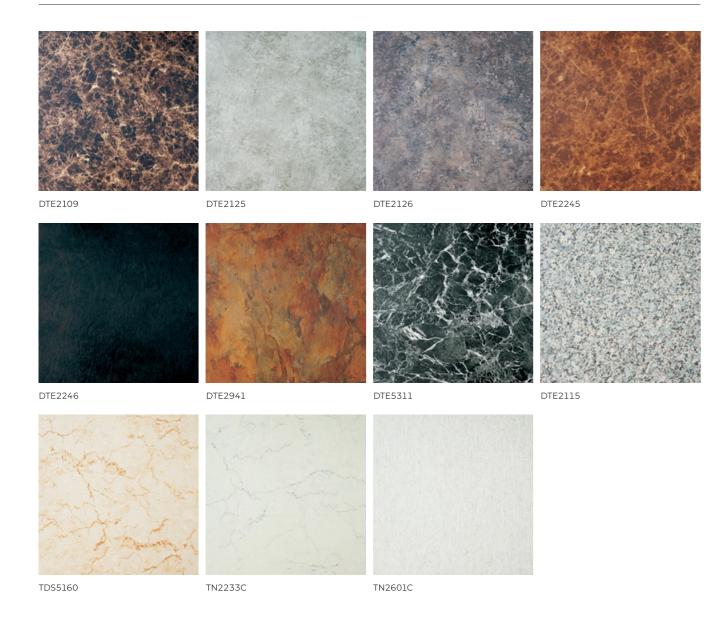


Notes Product images have been modified to help viewers' understanding. Design and colors depicted may differ from the actual products'.

44 HYUNDAI ELEVATOR FIXTURES DESIGN 45

# **FLOORING DESIGNS**

# PVC



# Notes Product images have been modified to help viewers' understanding. Design and colors depicted may differ from the actual products'.

# **STANDARD & OPTIONAL FEATURES**

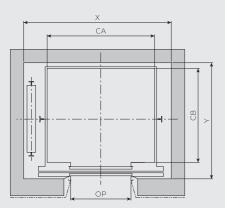
Feature	Description	Standard	Optional
Selective Collective Operation	Operation is carried out completely automatically when a call is registered.	•	
Car Door Safety Edge with Single Side	A safety edge that runs down the full height of the door causes the door to reopen when it detects a person or obstacle while closing.	•	
Automatic Car Light & Fan Turn-off	Car lighting and fan are turned off automatically when the car is idle to save energy.	•	
Landing Door Interlock Device	A device 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.	•	
Interphone (Intercom)	An interphone system provides emergency communication between passengers in the car and personnel in the machine room, maintenance room, or security office.	*	
Overload Control	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.	•	
Low Speed self-rescue Operation	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.	•	
Parking Operation	Elevators can be automatically parked at a predetermined floor with doors closed and lights and fan turned off.		<b>*</b>
Multi-beam Device for Car Doors	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.		•
Anti-nuisance Operation	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.		•
Emergency Fire Operation	Cars return to a predetermined floor in the event of fire to help evacuate passengers safely.		•
Voice Synthesizer	A voice synthesizer directs passengers with audible operational information, such as car direction, floor landed, and emergency alerts.		•
Emergency Power Generator Operation	Power is supplied from the building's power generator and elevators operate under emergency power mode during power outages.		•
Emergency Firefighter's Service	Firefighters can use elevators parked at a specific floor to support firefighting operations in the event of a fire.		•
ELD (Emergency Landing Device)	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 the trapping of passengers.		•
Attendant Operation	The elevator's operating mode can be switched from its regular automatic mode to manual mode using the attendant's switch on the COP.		•
Emergency Earthquake Operation	An earthquake sensor detects seismic waves and forces the elevator to stop at the nearest floor with its door fully open, preventing further operation.		•

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

# **INSTALLATION LAYOUT PLAN**

YZER-1 (1.0~2.5 m/sec., 1S-CO)

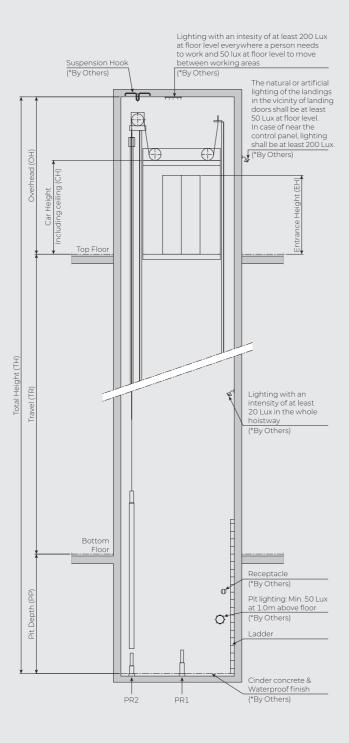
# **PLAN OF HOISTWAY**



**TYPICAL FLOORS** 



# **SECTION OF HOISTWAY**



# STANDARD DIMENSIONS

YZER-1 (1.0~2.5 m/sec., 1S-CO)

# **STANDARD DIMENSIONS & REACTIONS**

(Unit: mm)

Capa	city	Speed (m/sec.)	Opening Type	Clear Opening	Car Insize (mm)	Hoistway Insize (mm)	Control Panel Box (mm)		action (N)
Persons	kg	- (111/500.)	Type	OP	CA × CB	X×Y	СР	PR1	PR2
6	450	1.0		700	1100 × 1100	1700 × 1450		55	46
7	550	1.0		800	1100 × 1300	1800 × 1650		60	49
8	630	1.0~2.0	_	800	1100 × 1400	1800 × 1750		69	56
0	030	1.0~2.0	_	800	1400 × 1100	2000 × 1450	490		30
9	700	1.0~2.0		800	1250 × 1400	1850 × 1750		73	59
10	800	1.0~2.5		800	1300 × 1400	1900 × 1750		77	61
12	900	1.0~2.5		900	1600 × 1300	2200 × 1650		85	68
		1.0~2.0				2200 × 1750	490		
13	1000	2.5		900	1600 × 1400	2200 × 2050	Remote Control Box: 240W × 680H CP: In Hoistway	94	75
		1.0~2.0	_			2400 × 1750	490		
15	1150	2.5	_	1000	1800 × 1400	0 × 1400 Remote Control Box: 2400 × 680H CP: In Hoistway	108	85	
		1.0~1.5	1S-CO		2550 × 1970 490 1800 × 1600 2550 × 2200 Remote Control Box: 240W × 680H	1800 × 1600	490		
18	1350	1.75	_	1000			2550 × 2200 Remote Control Box: 240W × 680H	 147	118
		2.0~2.5	_			2520 × 2200	CP: In Hoistway		
		1.0	-			2750 × 2070	490		
21	1600	1.5~1.75	_	1100	2000 × 1700	2750 × 2250	Remote Control Box: 240W × 680H	 157	128
		2.0~2.5	_			2720 × 2250	CP: In Hoistway		
		1.0	_				490		
24	1800	1.5~1.75		1100	1600 × 2300	2500 × 2650	Remote Control Box: 240W × 680H CP: In Hoistway	94 × 2 Note.7	76 × 2 Note.
		1.0					490		
26	2000	1.5~1.75		1200	2100 × 1900	2825 × 2550	550 Remote Control Box: 240W × 680H 10 CP: In Hoistway		7 80 × 2 Note.
33	2500	1.0~1.75		1200	2200 × 2200	2925 × 2850	Remote Control Box: 240W × 680H CP: In Hoistway	114 × 2 Note.	' 89 × 2 Note.

- ▲ Notes 1. The above table of dimensions is as per EN81-20. In case of EN81-1 or other country codes, please contact us.
  - 2. The persons is calculated at 75 kg per person, as required by EN81-20.
  - 3. In case of through type (two entrances at 180 degrees), please contact us.
  - 4. If counterweight safety gear is requested, please contact us.
  - 5. Min. Dimension of Wall Thickness + Finished at Top floor is 250 mm for install of Control Panel.
  - $6. The \ Hoistway \ dimensions \ width \& \ depth \ are \ based \ on \ clear \ dimension + 50 \ mm \ horizontal \ tolerances \ over \ the \ total \ hoistway \ height.$
  - 7. The car and counterweight of 1800 kg~2500 kg is Standard configuration with two buffers.

# **OVERHEAD & PIT DEPTH**

(Unit: mm)

					(01111.11111)
Capacity	Speed	Max. Travel	Overhe	ad(OH)	Pit Depth
(kg)	(m/sec.)	(TR(m))	EN81-1	EN81-20	(PP)
400~550	1.0	50	CH + 1350	CH + 1500	1150
	1.0	50	CH + 1350	CH + 1500	1150
630~1150	1.5	70	CH + 1500	CH + 1600	1250
	1.75	80	CH + 1550	CH + 1700	1300
630	2.0	90	CH + 1850	CH + 1850	1500
700~1150	2.0	120	CH + 1850	CH + 1850	1500
800~1150	2.5	120	CH + 2250	CH + 2250	1700
	1.0	50	CH + 1500	CH + 1500	1300
	1.5	70	CH + 1600	CH + 1600	1400
1350~1600	1.75	80	CH + 1700	CH + 1700	1450
	2.0	120	CH + 1850	CH + 1850	1600
	2.5	120	CH + 2150	CH + 2150	1800
	1.0	45	CH + 1700	CH + 1700	1400
1800~2500	1.5	90	CH + 1850	CH + 1850	1600
	1.75	90	CH + 1950	CH + 1950	1650

- **◆ Notes** 1. CH means the Ceiling Height including the car internal ceiling height.
  - 2. This table of dimensions is for EN81-20 & EN81-1 compliant. For other standards, please contact us.
  - 3. To apply with the safety gear on counterweight side, Hoistway Width, OH and PIT should be increased. Please contact us.

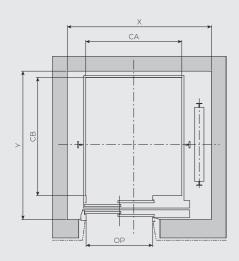
48 HYUNDAI ELEVATOR SPECIFICATIONS 49

<sup>\*</sup>By others: To be built by the building owner

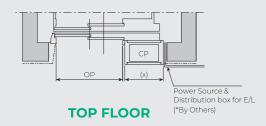
# **INSTALLATION LAYOUT PLAN**

YZER-1 (1.0~2.5 m/sec., 2S-SO)

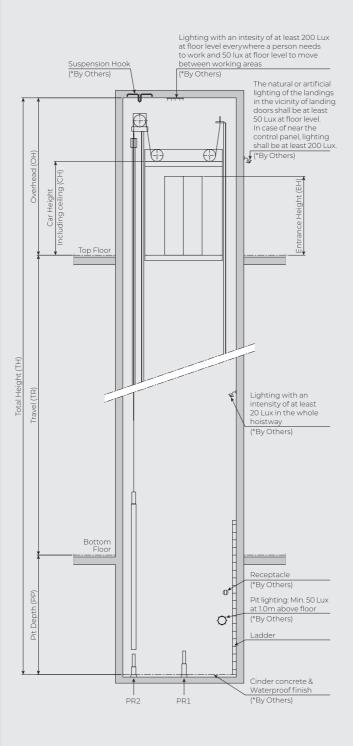
# **PLAN OF HOISTWAY**



**TYPICAL FLOORS** 



# **SECTION OF HOISTWAY**



# STANDARD DIMENSIONS

YZER-1 (1.0~2.5 m/sec., 2S-SO)

# **STANDARD DIMENSIONS & REACTIONS**

(Unit: mm)

Capa	city	Speed (m/sec.)	Opening Type	Clear Opening	Car Insize (mm)	Hoistway Insize (mm)	Control Panel Box (mm)		eaction (N)
Persons	kg	- (III/Sec.)	туре	ОР	CA × CB	X×Y	СР	PR1	PR2
5	400	1.0		800	1000 × 1100	1600 × 1500		52	44
6	450	1.0	_	800	1100 × 1100	1700 × 1550		55	46
7	550	1.0	_	800	1100 × 1300	1700 × 1700		60	49
8	630	1.0~2.0	_	900	1100 × 1400	1700 × 1800	490	69	56
9	700	1.0~2.0	_	900	1200 × 1400	1800 × 1800		73	59
10	800	1.0~2.5	_	900	1300 × 1400	1900 × 1800		77	61
12	900	1.0~2.5	_	900	1300 × 1600	1900 × 2000		85	68
		1.0~2.0	_			1700 × 2500	490		
13 1	4000	2.5	-	900	1100 × 2100	1750 × 2600	Remote Control Box: 240W × 680H CP: In Hoistway	_	75
13	1000	1.0~2.0	_			2700 × 1550	490	- 94	75
		2.5	_	1200	2100 × 1100	2700 × 1850	Remote Control Box: 240W × 680H CP: In Hoistway	_	
		1.0~2.0	_			1800 × 2650	490		
15	1150	2.5	2S-SO	1000	1200 × 2200	1850 × 2650	Remote Control Box: 240W × 680H CP: In Hoistway	108	85
		1.0~1.5				2050 × 2750	490		
18	1350	1.75	-	1100	1300 × 2300	2050 × 2750	Remote Control Box: 240W × 680H	 147	118
		2.0~2.5	_			2050 × 2750	CP: In Hoistway		
		1.0	_			2150 × 2850	490		
21	1600	1.5~1.75	-	1200	1400 × 2400	2150 × 2850	Remote Control Box: 240W × 680H	 157	128
		2.0~2.5	_			2150 × 2850	CP: In Hoistway		
		1.0	_				490		
24	1800	1.5~1.75	_	1200	1500 × 2500	2300 × 2950	Remote Control Box: 240W × 680H CP: In Hoistway	94 × 2 <sup>Note.7</sup>	76 × 2 Note.7
		1.0	_				490		
26	2000	1.5~1.75		1300	1600 × 2500	2400 × 2950	Remote Control Box: 240W × 680H CP: In Hoistway	100 × 2 Note.	<sup>7</sup> 80 × 2 <sup>Note.7</sup>
33	2500	1.0~1.75	_	1400	1800 × 2700	2600 × 3150	Remote Control Box: 240W × 680H CP: In Hoistway	114 × 2 Note.7	7 89 × 2 Note.7

- ▲ Notes 1. The above table of dimensions is as per EN81-20. In case of EN81-1 or other country codes, please contact us.
  - 2. The persons is calculated at 75 kg per person, as required by EN81-20.
  - $3.\,\mbox{ln}$  case of through type (two entrances at 180 degrees), please contact us.
  - 4. If counterweight safety gear is requested, please contact us.
  - 5. Min. Dimension of Wall Thickness + Finished at Top floor is 250 mm for install of Control Panel.
  - $6. The \ Hoistway \ dimensions width \& \ depth \ are \ based \ on \ clear \ dimension \ +50 \ mm \ horizontal \ tolerances \ over \ the \ total \ hoistway \ height.$
  - 7. The car and counterweight of 1800 kg~2500 kg is Standard configuration with two buffers.

# **OVERHEAD & PIT DEPTH**

(Unit: mm)

					(Onit. mm)
Capacity	Speed	Max. Travel	Overhe	ad(OH)	Pit Depth
(kg)	(m/sec.)	(TR(m))	EN81-1	EN81-20	(PP)
400~550	1.0	50	CH + 1350	CH + 1500	1150
	1.0	50	CH + 1350	CH + 1500	1150
630~1150	1.5	70	CH + 1500	CH + 1600	1250
	1.75	80	CH + 1550	CH + 1700	1300
630	2.0	90	CH + 1850	CH + 1850	1500
700~1150	2.0	120	CH + 1850	CH + 1850	1500
800~1150	2.5	120	CH + 2250	CH + 2250	1700
	1.0	50	CH + 1500	CH + 1500	1300
	1.5	70	CH + 1600	CH + 1600	1400
1350~1600	1.75	80	CH + 1700	CH + 1700	1450
	2.0	120	CH + 1850	CH + 1850	1600
	2.5	120	CH + 2150	CH + 2150	1800
	1.0	45	CH + 1700	CH + 1700	1400
1800~2500	1.5	90	CH + 1850	CH + 1850	1600
	1.75	90	CH + 1950	CH + 1950	1650

- **∢Notes** 1. CH means the Ceiling Height including the car internal ceiling height.
  - 2. This table of dimensions is for EN81-20 & EN81-1 compliant. For other standards, please contact us.
  - 3. To apply with the safety gear on counterweight side, Hoistway Width, OH and PIT should be increased. Please contact us.

50 HYUNDAI ELEVATOR PASSENGER ELEVATORS SPECIFICATIONS 51

<sup>\*</sup>By others: To be built by the building owner

# **INSTALLATION LAYOUT PLAN**

**SECTION OF HOISTWAY** 

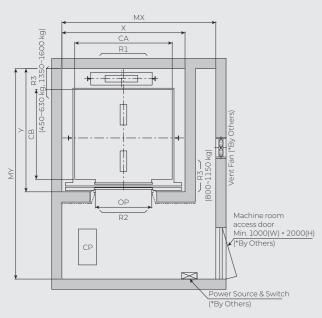
at 1.0m above flo (\*By Others)

M/C Room Lighting: Min. 200 Lux above F

Lighting with an intensity of at least 20 Lux in the whole

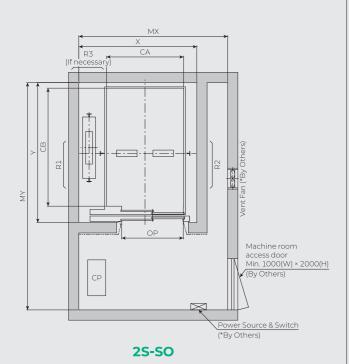
LUXEN-1 (1.0~2.5 m/sec.)

# **PLAN OF HOISTWAY**



▲ Notes Angle of car sheave can be changed depending on the car size.

### 1S-CO



\*By others: To be built by the building owner

# STANDARD DIMENSIONS

LUXEN-1 (1.0~2.5 m/sec.)

# STANDARD DIMENSIONS & REACTIONS

(Unit: mm)

Pit Reaction

Capa	city	Speed - (m/sec.)	Opening	Door Width (mm)	CWT	Car Insize (mm)				(kN)			
Persons	kg	- (m/sec.)	Type	OP OP	Drop	CA × CB	X×Y	MX × MY	Rl	R2	R3	PR1	PR2
6	450			800	Rear	1400 × 850	1800 × 1450 Note.6	2400 × 3150	29	44	11	53	44
7	550			800	Side	1100 × 1350	1900 × 1700	2500 × 3400	34.7	25	-	48.8	37.8
	550	1.0~1.75		800	Rear	1400 × 1030	1800 × 1650 Note.6	2400 × 3350	32	48	12	59	48
8	630	_		800	Side	1100 × 1400	1900 × 1750	2500 × 3450	48	25	-	53	41
	030			800	Rear	1400 × 1100	1800 × 1700 Note.6	2400 × 3400	34	51	13	63	50
		1.0~2.0				1100 × 1000	1000 × 2150	2500 × 2050	57	35	-	69.8	53.5
		2.5			Sido	(mm)         (mm)         (mm)           CA × CB         X × Y         MX × MY           1400 × 850         1800 × 1450 Noto.6         2400 × 3150           1100 × 1350         1900 × 1700         2500 × 3400           1400 × 1030         1800 × 1650 Noto.6         2400 × 3350           1100 × 1400         1900 × 1750         2500 × 3450	2000 ^ 0000	66.7	46.8	-	77.2	61.2	
		1.0~2.0			CWT Drop         (mm)         (mm)         (mm)           Drop         CA × CB         X × Y         MX × MY           Rear         1400 × 850         1800 × 1450 Note.6         2400 × 3150           Side         1100 × 1350         1900 × 1700         2500 × 3400           Rear         1400 × 1030         1800 × 1650 Note.6         2400 × 3350           Side         1100 × 1400         1900 × 1750         2500 × 3450           Rear         1400 × 1100         1800 × 1700 Note.6         2400 × 3400           1100 × 1800         1900 × 2150         2500 × 3850           Side         1350 × 1400         2150 × 1750         2750 × 3450           Rear         1400 × 1350         (1800 × 1970) Note.6         (2400 × 3700           1850 × 2000         2450 × 3700         (2450 × 3700         2450 × 3700           1850 × 2000         2450 × 3700         2600 × 4150         2600 × 4150           Side         1100 × 2100         2000 × 2450         2600 × 4150           Side         2050 × 2150         2650 × 3850           Rear         1600 × 1500         2200 × 2150         2650 × 3850           2050 × 2150         2650 × 3850         2000 × 3200         2450 × 3850           Side	2750 × 3450 -	57	35	-	69.8	53.5		
10	800	2.5		800		2750 ^ 3450	66.7	46.8	-	77.2	61.2		
		1.0~1.75					1850 × 2000	2450 × 3700	57	25	17.5	61	45
		1.0~1.75			Rear 1400 × 1350 (	(1800 × 1970) <sup>Note.6</sup>	(2400 × 3670)	31			01	45	
		2.0~2.5					(mm)         (mm)           X × Y         MX × MY           1800 × 1450 Note.6         2400 × 3150           1900 × 1700         2500 × 3400           1800 × 1650 Note.6         2400 × 3350           1900 × 1750         2500 × 3450           1800 × 1700 Note.6         2400 × 3400           1900 × 2150         2500 × 3850           2150 × 1750         2750 × 3450           1850 × 2000         2450 × 3700           (1800 × 1970) Note.6         (2400 × 3670)           1850 × 2000         2450 × 3700           2000 × 2450         2600 × 4150           2000 × 2450         2600 × 3650           2050 × 2150         2650 × 3850           2050 × 2150         2650 × 3850           2150 × 2450         2750 × 4150           2300 × 2150         2900 × 3850           2250 × 2150         2850 × 3850           2300 × 2650         2900 × 4350           2200 × 2350         2800 × 4050           2500 × 2650         3100 × 4350           2400 × 2400         3000 × 4100           2650 × 2500 Note.6         3250 × 4200	57	25	17.5	61	45	
		1.0~2.0				1100 × 2100	2000 × 2450	2600 × 4150	68	40	-	80	59.6
		2.5			Cido	1100 ^ 2100	2000 ^ 2400	2000 ^ 4100	73.6	51.2	-	86.3	65.9
		1.0~2.0	· 1S-CO		Side	1400 × 1600	2200 × 1050	2000 × 2000	68	40	-	80	59.6
13	1000	2.5	13-00	900		1400 × 1600	2200 × 1930	2000 × 3030 -	73.6	51.2	-	86.3	65.9
		1.0~1.75		_			2050 × 2150	2650 × 3850	68	0.5	20	71	51
		1.0~1.75			Rear   1400 × 1350   1800 × 1450 Note.6   240	(2600 × 3820)	00	3 25	20	71	51		
		2.0~2.5					2050 × 2150	2650 × 3850	68	25	20	71	51
		1.0~2.0				1050 v 0100	2150 × 2450	07E0 × 41E0	72.8	50.8	-	89.6	66.6
		2.5			Cido	1200 × 2100	2100 × 2400	2750 × 4150	80.8	56.8	-	96.1	72.6
15	1150	1.0~2.0		1000	Side	1500 × 1000	0000 × 0150	2000 × 2050	72.8	50.8	-	89.6	66.6
		2.5				1500 × 1800	2300 × 2150	2900 × 3850 -	80.8	56.8	-	96.1	72.6
		1.0~2.5		-	Rear	1800 × 1500	2250 × 2150	2850 × 3850	80.8	35	30	81.6	58.6
	1050			1000	Side	1300 × 2300	2300 × 2650	2900 × 4350	110	61.2	7	124	104
18	1350	10.05		1000 -	Rear	1800 × 1700	2200 × 2350	2800 × 4050	110	61.2	7	124	104
01	1600	- 1.0~2.5		1100	Side	1500 × 2300	2500 × 2650	3100 × 4350	119	62	7	140	114.4
21	1600			1100 -	Rear	2000 × 1750	2400 × 2400	3000 × 4100	119	62	7	140	114.4
24	1800	40.475		1200	Rear	2100 × 1800	2650 × 2500 Note.6	3250 × 4200	93.6	75	-	149	113.7
26	2000	- 1.0~1.75		1200	Rear	2100 × 1900	2650 × 2600 <sup>Note.6</sup>	3250 × 4300	103.9	83.3	-	166.6	127.4

- (mm) (mm) (mm) (mm) (kN) (kN) (m/sec.) CA × CB PR1 PR2 OP  $X \times Y$ MX × MY R2 1.0~2.0 69.8 53.5 800 900 1100 × 1700 1800 × 2150 1800 × 3850 61.2 1000 900 1100 × 2100 1800 × 2550 1800 × 4250 Side 65.9 66.6 1000 1200 × 2100 80.8 56.8 96.1 1.0~2.5 1300 × 2300 2050 × 2750 2050 × 4450 110 61.2 124 104
- ▲ Notes 1. The above table of dimensions is as per EN81-20, In case of EN81-1 applied or other country codes, Please contact us.

Car Insize

2. The persons is calculated at 75 kg per person, as required by EN81-20

Door Width

- 3. In case of through type (two entrances at 180 degrees), please contact us.
- 4. If counterweight safety gear is requested, please contact us.
- $5. The \ Hoistway \ dimensions width \& \ depth \ are \ based \ on \ clear \ dimension \ +50 \ mm \ horizontal \ tolerances \ over \ the \ total \ hoistway \ height.$
- 6. The optional hoistway size applying the special structure. Please contact us for the details.

# **OVERHEAD & PIT DEPTH**

Speed Opening

						(Unit: mm)
Capacity	Speed	Max. Travel	Overhe	ead(OH)	Pit Depth	M/C Room Height
(kg)	(m/sec.)	(TR(m))	EN81-1	EN81-20	(PP)	(MH)
	1.0	50	CH + 1700	CH + 1700	1250	2200
550~630	1.5	75	CH + 1800	CH + 1800	1300	2200
	1.75	75	CH + 1900	CH + 1900	1350	2200
	1.0	50	CH + 1700	CH + 1700	1250	2200
800~1150	1.5	75	CH + 1800	CH + 1800	1300	2200
000~1100	1.75	100	CH + 1900	CH + 1900	1350	2200
	2.0	120	CH + 2100	CH + 2100	1500	2200
800		130				2200
1000	2.5	140	CH + 2350	CH + 2350	1700	2200
1150		150				2200
	1.0	50	CH + 1800	CH + 1900	1400	2200
	1.5	75	CH + 1900	CH + 2000	1500	2200
1350~1600	1.75	90	CH + 1950	CH + 2100	1500	2200
	2.0	100	CH + 2050	CH + 2200	1550	2200
	2.5	130	CH + 2250	CH + 2400	1900	2200
	1.0	50	CH + 1800	CH + 1850	1400	2400
1800~2000	1.5	75	CH + 1900	CH + 2000	1500	2400
	1.75	90	CH + 1950	CH + 2050	1500	2400

**Notes** 1. CH means the Ceiling Height including the car internal ceiling height.

Hoistway Insize Machine Room Size M/C Room Reaction

- 2. This table of dimensions is for EN81-20 & EN81-1 compliant. For other standards, please contact us.
- 3. If car roof trap door is applied, the OH can increase.
- 4. If RGS(Roller Guide Shoe) is applied as an option, the OH & Pit height can increase.
- 5. To apply with the safety gear on counterweight side, Hoistway Width, OH and PIT should be increased. Please contact us.

**52** HYUNDAI ELEVATOR PASSENGER ELEVATORS SPECIFICATIONS 53

# **ENTRANCE LAYOUT**

STRUCTURAL OPENING OF ENTRANCE

**BOXLESS TYPE** 

**BOXLESS TYPE** 

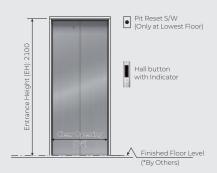
**BOXLESS TYPE** 

**BOX TYPE** 

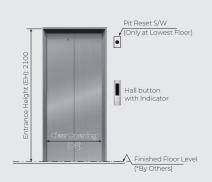
**BOX TYPE** 

**BOX TYPE** 

# **ENTRANCE**



# **E050 TYPE (STANDARD)**



# **E100 TYPE (OPTIONAL)**



# **E200 TYPE (OPTIONAL)**

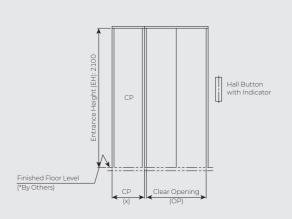
## \*By others: To be built by the building owner

**Notes** Pit Reset S/W is only required if EN81-20 is applied.

# **ENTRANCE LAYOUT**

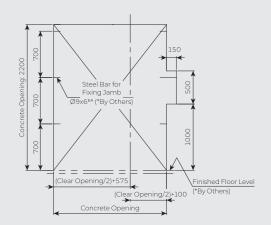
Only for Top Floor of the Machine room less Elevators

# **ENTRANCE**

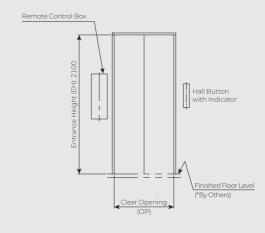


**WE050 TYPE (STANDARD)** 

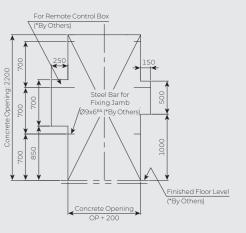
# STRUCTURAL OPENING OF ENTRANCE



**WE050 TYPE (STANDARD)** 



**E050 TYPE WITH CP IN HOISTWAY** 



**E050 TYPE WITH CP IN HOISTWAY** 

54 HYUNDAI ELEVATOR PASSENGER ELEVATORS SPECIFICATIONS 55

<sup>\*</sup>By others: To be built by the building owner

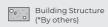
**Notes** 1. The Control Panel size shall be followed the standard dimension table of YZER-1.

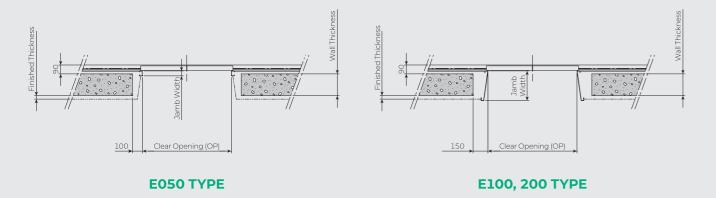
<sup>2.</sup> In case of E050 type with installed CP in hoistway, Remote control box size is based on EN81-20. If EN81-1 is applied, please consult with us.

# **ENTRANCE LAYOUT**

2-Panel Center-Opening Doors (1S-CO)

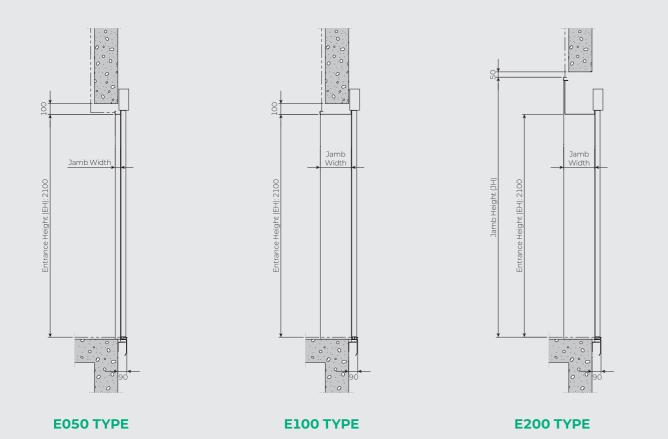
# **PLAN OF ENTRANCE**





# **SECTION OF ENTRANCE**

Building Structure (\*By others)

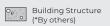


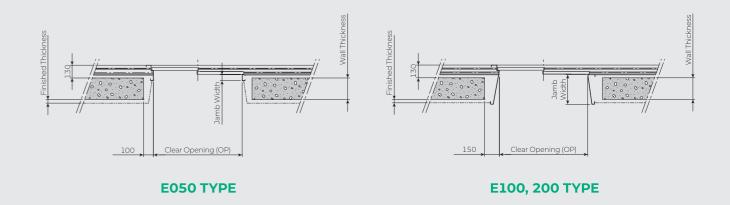
\*By others: To be built by the building owner

# **ENTRANCE LAYOUT**

2-Panel Side-Opening Doors (2S-SO)

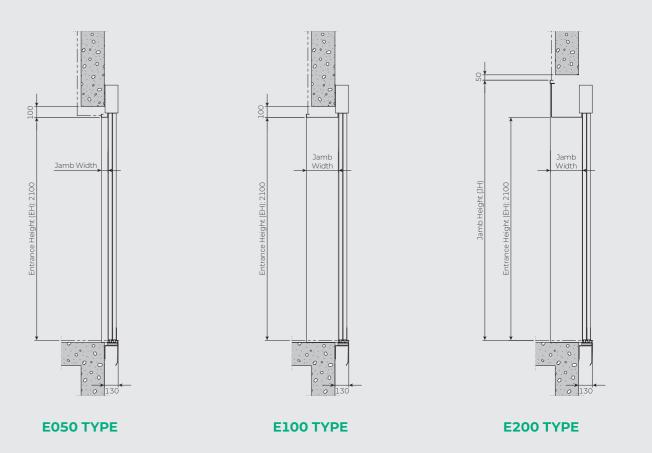
# **PLAN OF ENTRANCE**





# **SECTION OF ENTRANCE**

Building Structure (\*By others)



\*By others: To be built by the building owner

56 HYUNDAI ELEVATOR PASSENGER ELEVATORS SPECIFICATIONS 57

# **ELECTRIC POWER REQUIREMENTS**

YZER-1 (\*By Others)

# **POWER SUPPLY PLAN**

(380V)

Capacity (kg)	Speed (m/sec.)	Motor Capacity (kW) –		Capacity ding (A)		ply Capacity VA)		able Size m²)	Earth Wire Size (mm²)		
(kg)	(117366.)	(KVV) -	1 Car	2 Cars	1 Car	2 Cars	1 Car	2 Cars	1 Car	2 Cars	
400	1.0	2.7	32	75	6	10	6	16	6	16	
450	1.0	3.0	32	75	7	13	6	16	6	16	
550	1.0	3.7	32	75	7	13	6	16	6	16	
	1.0	4.2	32	75	8	17	6	16	6	16	
630	1.5	6.3	32	75	14	28	6	16	6	16	
000	1.75	7.4	32	75	14	28	6	16	6	16	
	2.0	9.8	32	75	19	38	6	16	6	16	
	1.0	4.7	32	75	8	17	6	16	6	16	
700	1.5	7.0	32	75	15	29	6	16	6	16	
700	1.75	8.3	32	75	15	29	6	16	6	16	
	2.0	10.3	32	75	20	39	6	16	6	16	
	1.0	5.3	32	75	9	19	6	16	6	16	
	1.5	8.0	32	75	17	33	6	16	6	16	
800	1.75	9.4	32	75	17	33	6	16	6	16	
	2.0	10.7	32	75	21	41	6	16	6	16	
	2.5	14.7	50	100	28	57	10	25	10	16	
	1.0	6.1	32	75	11	22	6	16	6	16	
	1.5	9.0	40	80	19	38	10	25	10	16	
900	1.75	10.6	40	80	19	38	10	25	10	16	
	2.0	12.7	40	80	23	45	10	25	10	16	
	2.5	14.9	50	100	29	57	10	25	10	16	
	1.0	6.7	32	75	12	25	6	16	6	16	
	1.5	10.0	40	80	21	42	10	25	10	16	
1000	1.75	11.7	40	80	21	42	10	25	10	16	
	2.0	13.9	40	80	25	49	10	25	10	16	
	2.5	17.9	63	150	35	69	16	35	16	25	
	1.0	7.7	32	75	14	28	6	16	6	16	
	1.5	11.5	40	80	22	44	10	25	10	16	
1150	1.75	12.3	40	80	22	44	10	25	10	16	
	2.0	14.1	40	80	25	50	10	25	10	16	
	2.5	18.8	63	150	36	72	16	35	16	25	
	1.0	9.2	32	75	19	38	6	16	6	16	
	1.5	13.8	50	100	28	55	10	25	10	16	
1350	1.75	16.1	63	150	31	61	16	35	16	25	
	2.0	17.6	63	150	34	67	16	35	16	25	
	2.5	22.1	80	150	42	85	25	50	16	35	
	1.0	10.8	40	80	23	45	10	25	10	16	
	1.5	16.3	63	150	32	65	16	35	16	25	
1600	1.75	19.0	63	150	36	72	16	35	16	25	
	2.0	20.8	63	150	40	79	16	35	16	25	
	2.5	26	80	150	50	99	25	50	16	35	
	1.0	12.1	40	80	23	45	10	25	10	16	
1800	1.5	18.1	63	150	38	76	16	35	16	25	
	1.75	21.1	63	150	38	76	16	35	16	25	
	1.0	13.4	40	80	25	50	10	25	10	16	
2000	1.5	20.1	80	150	42	85	25	50	16	35	
	1.75	23.4	80	150	42	85	25	50	16	35	
	1.0	16.7	63	150	30	60	16	35	16	25	
2500	1.5	25.1	80	150	50	99	25	50	16	35	
	1.0			,00	50				.0	00	

▲ Notes 1. The above table is for lengths of electric wire to 50 meters from the machine room to the building transformer.

2. If the cable lengths above 50meters, the following formula should be applied:

Power feeder size (mm²) =  $\frac{\text{Power feeder length(m)}}{\text{So}} \times \text{Size in the above (mm²)}$ 

3. The above power feeder thickness are based on copper wires use and metalic tubing.

4. It is recommended a larger diameter earth wire be used.

5. Please consult us if you need electric power requirements for 220V or 440V Class.

6. For installing several elevators, apply the following formula

Transformer Capacitiy[kVA] = Number of elevator × Diversity factor

Number of Elevator	1	2	3	4	5
Deversity Factor	1.00	0.91	0.85	0.8	0.76

\*By others: To be built by the building owner

# **ELECTRIC POWER REQUIREMENTS**

LUXEN-1 (\*By Others)

# **POWER SUPPLY PLAN**

(380V)

Capacity (kg)	Speed (m/sec.)	Motor Capacity (kW) –		Capacity ding (A)		ply Capacity VA)		able Size m²)		Vire Size m²)
(kg)	(m/sec.)	(KVV) –	1 Car	2 Cars	1 Car	2 Cars	1 Car	2 Cars	1 Car	2 Cars
550	1.0	5.0	32	75	10	20	6	16	6	16
~	1.5	7.8	32	75	18	35	6	16	6	16
800	1.75	9.0	32	75	18	35	6	16	6	16
000	2.0	13.4	40	80	25	50	10	25	10	16
800	2.5	17.6	63	150	33	67	16	35	16	25
	1.0	6.0	32	75	12	24	6	16	6	16
	1.5	10.0	40	80	22	44	10	25	10	16
1000	1.75	11.7	40	80	22	44	10	25	10	16
	2.0	13.4	40	80	25	50	10	25	10	16
	2.5	17.6	63	150	33	67	16	35	16	25
	1.0	7.0	32	75	15	29	6	16	6	16
	1.5	10.6	40	80	19	38	10	25	10	16
1150	1.75	12.3	40	80	23	47	10	25	10	16
	2.0	14.1	40	80	25	50	10	25	10	16
	2.5	17.6	63	150	33	67	16	35	16	25
	1.0	8.8	32	75	19	39	6	16	6	16
	1.5	13.3	50	100	32	63	10	25	10	16
1350	1.75	15.4	63	150	32	63	16	35	16	25
	2.0	17.6	63	150	43	86	16	35	16	25
	2.5	22.1	80	150	43	86	25	50	16	35
	1.0	10.5	40	80	22	44	10	25	10	16
	1.5	15.8	63	150	33	66	16	35	16	25
1600	1.75	18.3	63	150	33	66	16	35	16	25
	2.0	20.9	80	150	46	93	25	50	16	35
	2.5	26.1	80	150	46	93	25	50	16	35
1800	1.0	14.0	40	80	27	53	10	25	10	16
~	1.5	28.0	80	150	50	100	25	50	16	35
2000	1.75	28.0	80	150	50	100	25	50	16	35

▲ Notes 1. The above table is for lengths of electric wire to 50 meters from the machine room to the building transformer.

2. If the cable lengths above 50 meters, the following formula should be applied:

Power feeder size (mm²) = Power feeder length(m) × Size in the above (mm²)

3. The above power feeder thickness are based on copper wires use and metalic tubing.

4. It is recommended a larger diameter earth wire be used.

5. Please consult us if you need electric power requirements for 220V or 440V Class.

6. For installing several elevators, apply the following formula Transformer Capacitiy[kVA] = Number of elevator × Diversity factor

Number of Elevator	1	2	3	4	5
Deversity Factor	1.00	0.91	0.85	0.8	0.76

<sup>\*</sup>By others: To be built by the building owner

# **WORK TO BE DONE BY OTHERS**

# **CONSTRUCTION WORK**

#### **HOISTWAY**

- 1. Forming holes on the wall surrounding the entrance on each floor (entrance, hall button, hall lantern, etc.), and finishing the walls and floors after installation of the elevator. (including mortar filling)
- 2. Installation of steel frame to fix the left/right jambs on the entrance.
- 3. Installation of ladder for pit inspection where there the pit depth not exceeding 2.5 m.
- $4. \quad Installation of Pit access door where the pit depth exceeds 2.5 \ m.$ - Access door size: Min. 600 mm (W) × Min. 2000 mm (H)
- 5. Waterproofing work inside the pit and finishing work after installation of the buffer
- 6. Installation of hoistway partitions or separating beams. (If necessary)
- 7. Removing various tie pins and molds.

- 8. Others, (items indicated on the layout plan)
- 9. Construction of concrete structures (thickness of 150 mm or above) or steel structures to fix the rail brackets.
- 10. Destruction and finishing of concrete structures that are not constructed as indicated on the layout plan.
- 11. Installation of lifting beam or hook that is designed to lift the machine to the top of hoistway

#### MACHINE ROOM (MR)

- 1. Forming holes for machines and ropes on the floor, finishing on cinder concrete, and installation of those indicated on the layout plan.
- 2. Installation of lifting beam or hook on the top of machine room
- 3. Installation of reinforcement beam on the machine room floor. (If necessary)

# **ELECTRIC WORK**

#### HOISTWAY

- 1. The natural or artificial lighting of the landings in the vicinity of landing doors shall be at least 50 lux at floor level
- 2. Lighting with an intensity of at least 50 lux at 1.0 m above the pit floor everywhere a person can stand and 1.0 m above the car roof within its vertical projection
- 3 Lighting with an intensity of at least 20 lux in the whole hoistway
- 4. Piping and wiring work from monitoring panel to hoistway when monitoring panel is installed. (Wire specifications: UL2919  $\times$  2 EA per one bank (Max. 20 units))
- 5. Piping and wiring work when CCTV is installed.
- 6. Others. (items indicated on the layout plan)
- 7. Wiring work on power system within the hoistway for supplying power and lighting. (Refer to the layout plan for electrical power requirements.)
- 8. Installation of distribution box for elevator (including N.F.B) on electrical room. (Install near the hoistway. Refer to the layout plan for electrical power requirements.)
- 9. Construction for power supply to maintain the voltage regulation of distribution source within ±5% to and lighting within ±2%
- 10. Piping and wiring work on lighting outlet for pit inspection.
- 11. Supplying power needed during installation and commissioning free
- 12. Piping and wiring work on emergency communication device between elevator control panel and central control room. (Wire specifications UTP × 4P 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, only one communication device may be

#### MACHINE ROOM (MR)

- 1. Piping and wiring work outside the hoistway for the installation of emergency call equipment (intercom) in a place other than the machine room
- 2. Construction of lighting and lighting outlets for inspection in machine
- 3. Supplying power needed during installation and commissioning free of charge.
- 4. Installation of lighting for power system and car, and construction of machine room incoming panel and its wiring for emergency power.
- 5. Lighting with an intensity of at least 200 lux at floor level everywhere a person needs to work and 50 lux at floor level to move between working areas.

#### MACHINE ROOM LESS (MRL)

1. Power supply (Including piping and wiring work) to the control panel and per-manently installed lighting with an intensity of at least 200 Lux from the bottom of the control panel

# **MATTERS TO NOTE**

- 1. 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.
- 2. Do not install ducts or pipes for other purposes (electricity, water, gas, hydrant) on the hoistway and walls inside the machine room
- 3. Lower part of pit should not be used as residence, pathway, or for other purposes.
- $4. \quad \text{Power and voltage regulation should be within +5\% to -5\%}.$
- 5. 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 air-conditioning 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 blue-
- print 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 ±20 mm
- \* Calculation equation for heat generation in machine room (based on one elevator)
- O:  $(kcal/H) = W \times V \times F \times N$ W: Loading capacity (kg) N: Number of elevators
- V: Rated speed (m/min.)
- F: Coefficient based on control type (1/42: VVVF)

# GLOBAL SALES & SERVICE NETWORK

#### **HEAD OFFICE & FACTORY**

128, Chungjusandan 1-ro, Chungju-si, Chungcheongbuk-do, 27329 Korea

#### **SEOUL OFFICE (GLOBAL SALES DIV.)**

5F, East Bldg., Hyundai Group Bldg., 194, Youlgok-ro, Jongno-gu, Seoul, 03127 Korea

#### **AFRICA**

#### **EGYPT**

T 2-02-24029153 2-012-23952311 E sales@hauslift.com

#### FTHIOPIA

T 251-911-503-000 E ieethiopial@amail.com

#### KENYA

T 254-722-667984

E charles.skymax@africaonline.co.ke pslyall@skymaxenterprise.com

#### MOROCCO

T 212-522-490-485 E sales@hyundai-ascenseurs.com

## **NIGERIA**

T 234-7034444400

E info@orionelevators.com

# TUNISIA

T 212-71-962-967 E ideal.commerciale@gmail.com

#### ASIA

#### BANGLADESH

T 88-017-13209212 E zahid@edgeworksbd.com

#### CAMBODIA

T 855-23-888-399 E project@ggear.com.kh

# CHINA

## [Head Office (Factory)]

T 86-21-6485-8600 E 2017407@hdel.co.kr

# INDIA

T 91-99-7000-0611 E rdmello@kinetic-hyundai.com

#### INDONESIA [Service]

T 62-21-3511-355 E marketing@helin.co.id

#### [New Equipment] T 62-21-631-8444

E sugiono\_nusalim@yahoo.com

# MALAYSIA

T 603-7932-1326 E ku.lee@hdel.co.kr sales@hem.com.mv

# MONGOLIA

T 976-8908-3031 E munkhtuya@hyundai-elevator.mr

# ΜΥΔΝΜΔΡ

T 951-2305336~37 E info@integral-ltd.com

# PAKISTAN

T 92-21-3432-0601~5 E iitcpk@gmail.com

#### **PHILIPPINES**

T 632-8716-0905 E sales@hyundaielevator.com.ph

#### SRILANKA

T 94-11-2623208 E wasanthaa@abansgroup.com

#### THAILAND

T 66(0)-2240-3127~8 E ratee@loxley.co.th

# VIETNAM

T 84-945-977-417 E ku.lee@hyundaielevator.com

# FUDOPE & CIS AZERBAIJAN

T 994-50-207-2217 E info@s-enna.az

#### DENMARK T 45-3311-3230

GREECE T 210-481-8756

E office@s-elevator.com

# E info@valsalift.gr

KAZAKHSTAN T 7-701-599-9906

#### E dmitriy@hdel.kz

KYRGYZSTAN T 996-707-646-666

E hyundaielevatorskg@gmail.com

#### POLAND

T 48-61-820-85-51 E maciej.dziurkiewicz@omilifts.com

# ROMANIA

E office@smartelevators.eu

RUSSIA

T 40-231-537-138

#### [Moscow]

T 7-495-640-30-44 E msk@dvc.ru

T 7-423-220-51-16

#### E hvundai@dvc.ru TURKEY

[Vladi]

T 90-216-510-1244 F orkun tanman@hdel.com.tr

T 380-44-4969580 E lift@eurolift.com.ua

#### UZBEKISTAN

T 998-90-910-1368 E innesa@boinncorp.com

#### **MIDDLE EAST**

# BAHRAIN

T 973-1770-2468 E elevators@nassgroup.com

# T 964-79-1336499

E info@alarjoon.com ISRAEL T 972-3-9630000

#### E laorv@ledico.com

**JORDAN** T 962-79-5526-713 E maadbseiso55@gmail.com

# KUWAIT

T 965-2227-0722 E info@dealgtc.com

#### OMAN T 968-9936-9663

OATAR

E techno.hyundai@gmail.com

T 974-4436-6689 974-4427-9565

# E info@ietg-hyundaielevator.com

**SAUDI ARABIA** T 966-12-263-1907 E shoukath@escco.com.sa

# UAE

T 971-4-294-4475 E dubai@bhnoe-hyundai.com

# NORTH/SOUTH AMERICA

## ARGENTINA

T 5411-3220-2878 5411-4488-1948 E ogueta@skylift.com.ar

# BRAZIL

T 55-11-5070-4141 E wellington.sierra@hdel.com.br

#### CHILE

T 56-9-225540849 E lcid@cyce.cl COLOMBIA T 57-4-444-9297

# COSTA RICA

T 506-2291-0455

E mv.elevatec@grupomisol.com

E sgiraldo@solucionesverticales.com.co

#### DOMINICAN REPUBLIC

T 809-566-7474 E cesar@eleva.com.do

## **ECUADOR**

T 593-2254-2831 E hyundai@a-i.com.ec

#### FL SALVADOR

T 503-2260-6233 E jc.elevatec@grupomisol.com

### GUATEMALA T 502-2388-0000 E cd.elevatec@grupomisol.com HONDURAS

T 504-2564-6150, 504-2231-3302

# MEXICO

T 52-55-5663-2019 E yurich@insertechmx.com

E jc.elevatec@grupomisol.com

E bb.elevatec@grupomisol.com

# NICARAGUA

PANAMA T 507-381-7422

T 505-2223-5217

507-381-7427 E el.elevatec@grupomisol.com

#### PERU

T 506-7013-4407 E cc.elevatec@arupomisol.com

PARAGUAY T 595-2120-1915

#### USA & CANADA

VENEZUELA

T 812-705-4057 E Sales@ALT-AVT.com

T 58-212-232-8263

E egrau@inelec.com.py

E ojssimon@gmail.com





Korea Certification (K for elevator safety



ISO 9001 certificati (first in the industry in Korea)



ISO 14001 certificat (first in the industry in Korea)



certificatio

# HYUNDAI ELEVATOR CO., LTD.

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