Caring for you, and making you feel comfortable.

## **HUMAN FRIENDLY**

What we are aiming is to fill a building with safe and comfortable products and services, and to make a town even more pleasant for all the people who live, work and visit there. Always caring for you. Always getting close to you. HUMAN FRIENDLY is the R&D concept conveying our thoughts.

## **@**Hitachi Building Systems Co., Ltd.

Contact Address:			

The information in this catalogue is subject to change without notice.





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# **Creating a New History**

Hitachi Group is active in a wide range of business sectors. From the technology and experience built up over many years, come the synergies that feed new innovation.

Hitachi has been developing and manufacturing elevators and escalators since 1924.

As social demands on elevators change over time, Hitachi's machine room-less elevator model OUG series ON1, developed in Japan, meets the needs of customers in terms of efficiency, safety, comfort, and space savings. Hitachi is creating a new history for elevators, and for your building.



## History of Hitachi elevators

•1932•First elevator is delivered: freight elevator for Tokyo Electric Co. •1968•300-m/min. elevator is delivered to Japan's first skyscraper: Kasumigaseki Building. •1991•Power-saving inverter-controlled Ultrahigh-Speed elevator commences operations: Tokyo Metropolitan Government Building No.1. •2003•300-m/min. double-deck elevator is delivered: Roppongi Hills Mori Tower, Tokyo. •2007•480-m/min., 2,850-kg high-rise shuttle elevator is delivered: Tokyo Midtown, Midtown Tower. •2008•World's largest Ultrahigh-Speed double-deck elevator is delivered: Shanghai World Financial Center. •2011•600-m/min. Ultrahigh-Speed elevator for the Middle East: Al Hamra Mixed-Use Complex, Kuwait. •2012•High-Speed, large-capacity elevator providing access to Japan's highest (450 m) observation platform: TOKYO SKYTREE. •2016•Delivery of the Ultrahigh-Speed elevators, with a speed of 1,200 m/min. (20 m/s), to the Guangzhou CTF Finance Centre (530-m tall) in Guangzhou, China. •2017•The tallest building in Singapore, famous as the winner of the World Architecture News Mixed-Use Award: Tanjong Pagar Centre, Singapore.



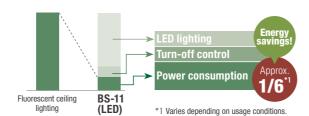
# our classifications of value we provide for your building

# Energy efficiency

Page 5, 6

## **Reduced energy consumption with** standard specifications

Power consumption can be reduced to approximately 1/6.



## **LED lighting**

Use of LED lighting reduces the energy consumption by approximately 1/4 and its service life is three times longer compared with fluorescent lighting.

## Automatic turn-off of car lighting and fan Standard

When the elevator is idle, the lighting and ventilation fan in the elevator are automatically turned off to conserve energy. Energy consumption is reduced by adopting LED lighting for the ceiling and by shortening the time until the lighting and fan turn off.

## **Regenerative system**



The traction mechanism acts as a power generator and transmits power back to the building electrical network that reduces energy consumption by approximately 30%.





\*2 Effectiveness during normal operation. Differs depending on usage conditions.

# Comfort

Page 7, 8

## Improved riding comfort

**Standard** 

Motor control and vibration-absorbing type guide shoes provide a guiet and smooth ride.

## **Group control systems**



Group control systems provide passengers with appropriate guidance and help reduce the probability of long waits.

## Ion generator



Ion generator works to improve air quality.

# Elevator interior deodorizing test\*3 No release of ionized particles intensity to less than rank 1\*4 after 40 minu 2

performed in (13-passenger) elevator measuring approx. 5.5 m³. Results may differ from those in actual usage space.

\*4 Odor strength rank 1 is defined as odor that is hardly



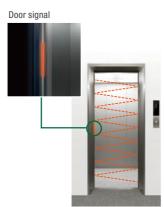
# Safety & Emergency

Page 9, 10

## **Door signal with** multi-beam door sensor

Option

Door signal that tells when the door is going to close for enhanced safety.



## Micro-leveling

Standard

Automatically corrects the elevator landing level when there is a level difference between car and floor.

## **Automatic rescue device** for power failure

Note: Testing organization: Hitachi Power Solutions Co., Ltd. Testing method: Verification using six-rank odor intensity indication method in passenger elevator with

13-person capacity Deodorizing method: Release of ionized particles Subject: Methyl mercaptan was released and the change in its concentration was measu

When a power failure is detected, the drive power supply switches over to battery power, and the elevator automatically moves to the nearest floor and releases the passengers.

# Design

Page 11, 12

## LCD indicators



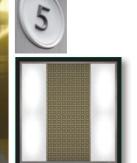
In-car indicator and hall indicator with color LCD are available. They provide a quick overview of the operating status.



## Car and hall designs

Select the most suitable design from the options available, including ceiling and 3 side walls designs created by Hitachi's designers to match a variety of building types.





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# **L**nergy efficiency

## **LED lighting**

By adopting LED lighting for all ceiling designs, energy consumption is reduced and service life is prolonged compared with fluorescent lighting.





that of fluorescent lighting Employs LED lighting with

approx. **3X**\*2 longer service life.

Power	lighting		BS-11 (LED)	
consumption	69 W		<b>23</b> W*3	
Service life	Approx. 12,000 hours		Approx. <b>40,000</b> hours*4	

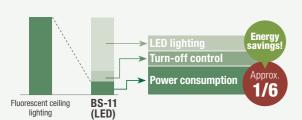
By changing the time until the lighting turns off during standby from three minutes to one minute...

Fluorescent ceiling

Power consumption can be reduced to approx. 1/6

Annual	Fluorescent ceiling lighting		BS-11 (LED)
illumination duration	Approx. 3,000 hours		Approx. <b>1,500</b> hours*5
Annual power consumption	Approx. 207 kWh/year	<b>&gt;</b>	Approx. <b>35</b> kWh/year

## Reduction of power consumption



## Power consumption approx. 1/6 that of fluorescent lighting Employs LED lighting with approx. **3X**\*2 longer service life.

Fluorescent ceiling

Power	lighting		SL-11 (LED)	
consumption	207 W		<b>33</b> W*3	
Service life	Approx. 12,000 hours		Approx. <b>40,000</b> hours*4	

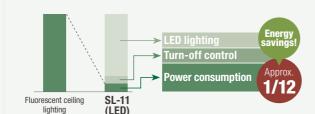
By changing the time until the lighting turns off during standby from three minutes to one minute...

Fluorescent ceiling

Power consumption can be reduced to approx. 1/12

Annual	lighting		SL-11 (LED)	
illumination duration	Approx. 3,000 hours		Approx. <b>1,500</b> hours*5	
Annual power consumption	Approx. 621 kWh/year	<b></b>	Approx. <b>50</b> kWh/year	

#### •Reduction of power consumption



- \*1 These ceilings are not compliant with EN81-20/50 and SS550. In case of EN81-20/50, they can be used if the customer agrees.
  \*2 Comparison with 10-passenger model with fluorescent ceiling lighting. Results may differ depending on ceiling configuration and dimensions.
  \*3 Power consumption of fixture including lighting power supply.
- \*4 Rated service life of fixture including lighting power supply. Actual service life may vary depending on usage conditions.
- \*5 Varies depending on usage conditions

## Automatic turn-off of car lighting and fan

Standard

When the elevator is idle, the lighting and ventilation fan in the elevator are automatically turned off to conserve energy. Energy consumption is reduced by adopting LED lighting for the ceiling and by shortening the time until the lighting and fan turn off.

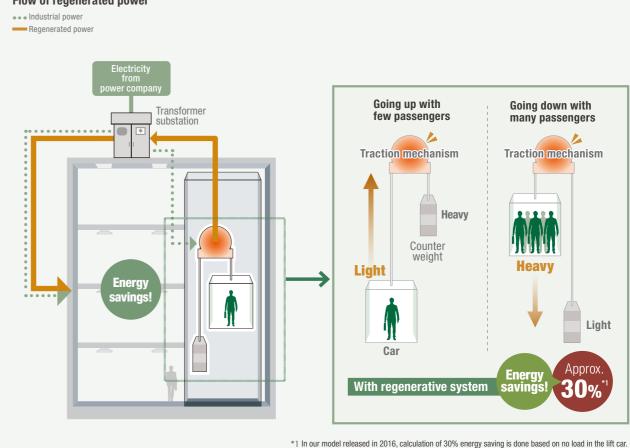
## **Regenerative system**



## Making use of energy generated by the elevator

Making use of the energy generated by the elevator when traveling downwards with a heavy car load or upwards with a light car load, the traction mechanism acts as a power generator and transmits power back to the electrical network in the building.

#### Flow of regenerated power



The energy savings are calculated theoretically. Differs depending on usage conditions

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# **L**omfort

## FI-600 Group control system

## **Group control systems help** reduce waiting time.

Shortening average waiting times and reducing the probability of a long wait\*1 are the most important tasks of the group control system of an elevator. Hitachi continues to develop control algorithms to meet these needs. The FI-600 employs a new type of algorithm, future reference trajectory control. It helps reduce the probability of long waits.

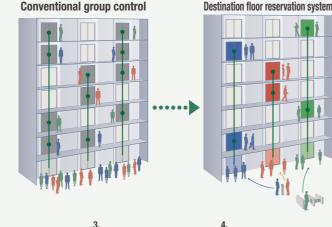
\*1 "Long wait" refers to a waiting time of over 60 seconds.

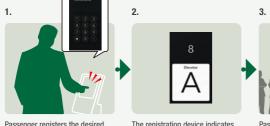
# Summary of future reference trajectory control FI-600 Controls while forecasting future traiectory

## **FIBEE Destination floor reservation system**

## **FIBEE leads passengers more** reliably to their destination floors.

Hitachi has added a destination floor reservation system to the group control system. After each passenger registers their destination floor at the hall, they are informed ahead of time of the elevator they should use. This helps to reduce congestion in the hall.





Passenger registers the desired destination floor through the registration device.

The registration device indicates

Passenger moves to the front of

Passenger enters the elevator and

#### **Destination floor registration device**

**Using elevators with FIBEE** 







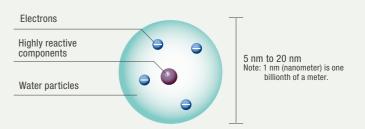
## **lon generator**

Option

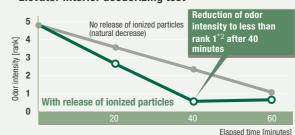


## Ion generator improves air quality.

An ion generator manufactured in Japan is mounted on top of the car. Nano-sized electrostatic atomized water particles work to improve air quality.



## Elevator interior deodorizing test\*



- \*1 Results after 40 minutes in test performed in (13-passenger) elevator measuring approx. 5.5 m<sup>3</sup>. Results may differ from those in actual usage space.
- \*2 Odor strength rank 1 is defined as "extremely weak odor that is hardly noticeable."

Testing organization: Hitachi Power Solutions Co., Ltd. Testing method: Verification using six-rank odor intensity indication method in passenger elevator with 13-person capacity Deodorizing method: Release of ionized particles Subject: Methyl mercaptan was released and the change in its concentration was

## **About ionized particles**

The ionized particles released into the air come into contact with odor molecules and the OH radicals break down substances that cause odor. Also, the ionized particles come into contact with allergens (pollen and mites), bacteria, and viruses, a the OH radicals denaturize their protein and suppress them.

1. Testing organization: Panasonic Corporation Product Analysis Center. Testing method: Direct exposure in 250-liter test space and verification using six-rank odor intensity indication method. Deodorizing method: Release of ionized particles. Subject: Accumulated cigarette odor. Test result: Odor intensity reduction of 0.8 after 30 minutes. Test number: E02-090313MH-01 2. Testing organization: Panasonic Corporation Product Analysis Center. Testing method: Direct exposure in 45-liter test space and measurement using ELISA method. Suppression method: Release of ionized particles. Subject: Allergen (pollen). Test result: Over 99% suppression after two hours. Test number: E02-080303IN-03 3. Testing organization: Panasonic Corporation Product Analysis Center. Testing method: Direct exposure in 45-liter test space and measurement using ELISA method. Suppression method: Release of ionized particles. Subject: Allergen (mites). Test result: Over 98% suppression after two hours. Test number: E02-080204IN-02 4. Testing organization: Kitasato Research Center for Environmental Science. Testing method: Direct exposure in 1-square-meter test vessel and measurement of bacteria count. Suppression method: Release of ionized particles. Subject: Airborne bacteria. Test result: Over 99% suppression after 20 minutes. Kitasato Biogenetic: 20\_0154\_1. Test performed for one type of bacteria only. 5. Testing organization: Kitasato Research Center for Environmental Science. Testing method: Direct exposure in 1-square-meter test vessel and measurement of virus count. Suppression method: Release of ionized particles. Subject: Airborne virus. Test result: Over 99% suppression after 90 minutes. Kitasato Biogenetic: 20\_0154\_1. Test performed for one type of virus only.

Note: The ionized particles suppress viruses, etc., but they are not guaranteed to prevent infection. Note: The ion generator is not available in the following cases:

(1) When the ceiling is supplied by the customer.(2) When the car internal depth is 1,250 mm or less

## Improved riding comfort



Measures such as control to suppress motor vibration and vibration-absorbing type guide shoes are utilized. These reduce noise and vibration when the elevator is in motion for a smooth and guiet ride.

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# Safety & Emergency

## Door signal with multi-beam door sensor (Closing door alert)

Option

## The door signal flashes to notify passengers when the door is starting to close.

The multi-beam door sensor is backed by a door signal that notifies passengers when the door is going to close. The LED on the edge of the door starts to blink about one second before the door starts to close. If the door close button in the elevator car is pressed, the LED starts blinking at the same time as the door starts to close.





Note: Illustration shows simulated view of beams.

## **Micro-leveling**

Standard

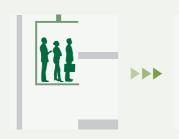
Automatic correction of elevator landing level when there is a level difference between car and floor. This improves safety when getting on and off the elevator.

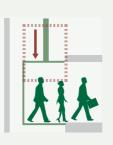
## **Automatic rescue device for power failure**



# In a power failure, the elevator switches to battery operation, and moves to the nearest floor.

When a power failure is detected, the drive power supply switches over to battery power, and the elevator automatically moves to the nearest floor and releases the passengers for safety. This lessens the worry of being trapped in the elevator that has stopped due to a power outage in a building with no private generator equipment.



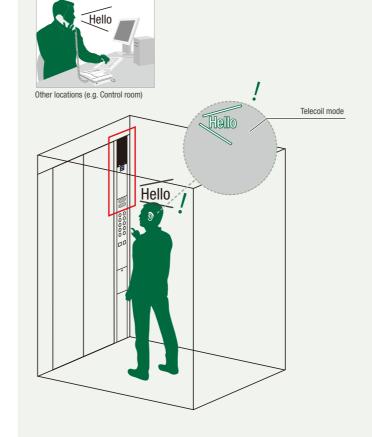


## **Induction loop for hearing devices**

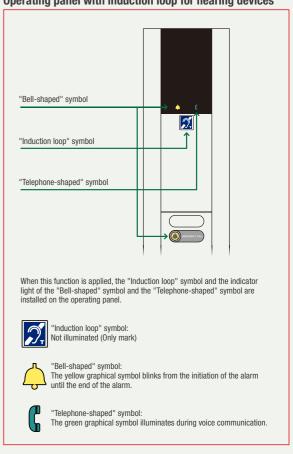


This function allows passengers with impaired hearing to use the elevator with confidence. If it is necessary to use the intercom in the elevator to communicate with people at other locations in an emergency, the passenger can select the "Telecoil mode" on their hearing aid or cochlear implant to have the audio signal from the intercom conveyed to them directly. The induction loop for hearing devices is an auxiliary device of the intercom that outputs audio signals magnetically, separately from the usual audio output. The induction loop for hearing devices covers an effective range of 0.5 meters from the operating panel, between 1.2 to 1.7 meters above the floor. Operating panel equipped with this function bears the "Induction loop" symbol.

#### Induction loop for hearing devices ~ Other locations



## Operating panel with induction loop for hearing devices



Note: Induction loop for hearing devices is used in combination with EN81-20/50. Note: The illustration is an example.

0UG-0N1 9 10 0UG-0N1

# esign

## **Ceiling designs** (Silkscreen print)

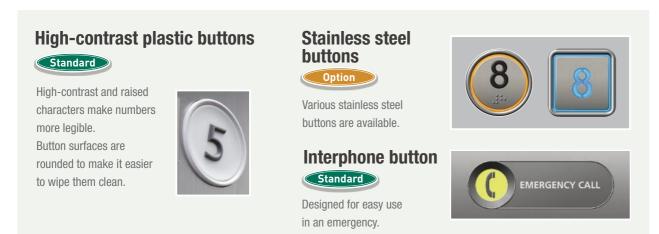


By applying silk screening to the ceilings of SL-11 and DX-101, Hitachi ceiling designs coordinate your elevator with the building decor.



## **Button designs**

A wide range of buttons harmonizes with various building designs.



## **In-car LCD indicator**



## The LCD indicator makes it easy to find necessary information.

An in-car indicator with an 8.4-inch color LCD is available. The LCD with wide angle improves visibility. It displays indications of the operating status, such as earthquake emergency operation, to the user.

个 3

Overload

个 3

Next 5th floor

Crowded. Please clear the exit way.

Overloaded.

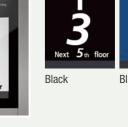
Door opening time has been extended

Door prolong\*1











\*1 Display indications regarding operation during earthquakes, etc., require that the corresponding functions be installed.

## **Hall LCD indicator**

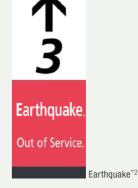
Next **5**th floor

Floor indication



## The hall LCD indicator displays abundant information in the hall.

A hall indicator with a 6.2-inch color LCD is available. Like the in-car LCD indicator, it displays indications of the operating status.





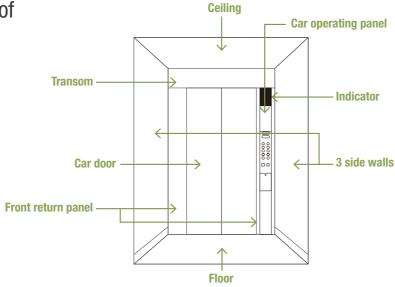
\*2 Display indications regarding operation during earthquakes, etc., require that the corresponding functions be installed.

OUG-ON1 11 12 OUG-0N1

# **K**ecommended designs

## **Car designs**

Choose from a wide range of design options to create an elevator look that matches your building.



# **Recommended designs** Samples of designs created by a designer.





## Stylish design (for office)

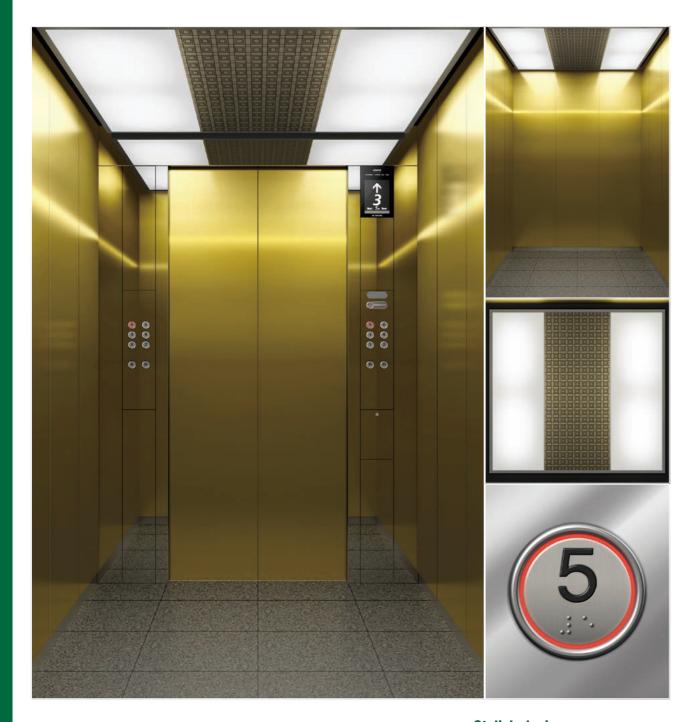
- cy 11-011 010	311 (ioi oilloo)
Specifications	
Ceiling	SL-series (SL-11-Kaleidoscope)*1
3 side walls	Decorated steel (Minamo white)
Car door	Decorated steel (Minamo white)
Front return panel/Transom	Stainless steel hairline
Floor	Vinyl tile (S 442M)*2
Indicator	LCD (8.4-inches)
Car operating panel	Stainless steel hairline

Note: Illustrations show simulated views of elevator interiors.
Actual illumination brightness and colors may differ.
\*1 The ceiling is not compliant with EN81-20/50 and SS550. In case of EN81-20/50, it can be used if the customer agrees.

\*] These ceilings and LPS are not compliant with EN81-20/50 and SS550. In case of EN81-20/50, they can be used if the customer agrees.

OUG-ON1 14 OUG-0N1

<sup>\*2</sup> The tile is not compliant with SS550.



## Stylish design (for commercial building)

Specifications	
Ceiling	DX-series (DX-101-Lattice)*1
3 side walls	Colored stainless steel hairline
Car door	Colored stainless steel hairline
Front return panel/Transom	Stainless steel mirror
Floor	Vinyl tile (S 660M)*2
Indicator	LCD (8.4-inches)
Car operating panel	Stainless steel mirror





## Chic design (for residential building)

Specifications	
Ceiling	SL-series (SL-12)
3 side walls	Decorated steel (Mocha wood)
Car door	Decorated steel (Mocha wood)
Front return panel/Transom	Stainless steel hairline
Floor	Vinyl tile (S 673M)*1
Indicator	LCD (8.4-inches)
Car operating panel	Stainless steel hairline





## Chic design (for hotel)

Specifications	
Ceiling	DX-series (DX-11)
3 side walls	Laminated plastic sheet (5261NT)*2
Car door	Colored stainless steel hairline
Front return panel/Transom	Colored stainless steel hairline
Floor	Vinyl tile (S 657M)*1
Indicator	LCD (8.4-inches)
Car operating panel	Colored stainless steel hairline

Note: Illustrations show simulated views of elevator interiors.
Actual illumination brightness and colors may differ.
\*1 The ceiling is not compliant with EN81-20/50 and SS550. In case of EN81-20/50, it can be used if the customer agrees.
\*2 The tile is not compliant with SS550.

Note: Illustrations show simulated views of elevator interiors.
Actual illumination brightness and colors may differ.
\*1 The tile is not compliant with SS550.
\*2 The LPS is not compliant with EN81-20/50 and SS550. In case of EN81-20/50, it can be used if the customer agrees.





## Luxurious design (for commercial building)

Specifications	
Ceiling	EX-series (EX-11)*1
3 side walls	Decorated steel (Craft wood)
Car door	Stainless steel non-directional hairline
Front return panel/Transom	Stainless steel non-directional hairline
Floor	Vinyl tile (S 629M)*2
Indicator	LCD (8.4-inches)
Car operating panel	Stainless steel non-directional hairline



## Luxurious design (for hotel)

Luxurious acsign (ioi notei)				
Specifications				
Ceiling	DX-series (DX-104)			
3 side walls	Decorated steel (Mocha wood)			
Car door	Colored stainless steel hairline			
Front return panel/Transom	Colored stainless steel hairline			
Floor	Vinyl tile (S 444M)*2			
Indicator	LCD (8.4-inches)			
Car operating panel	Colored stainless steel hairline			

Note: Illustrations show simulated views of elevator interiors. Note: Illustrations snow simulated views of elevator interiors.

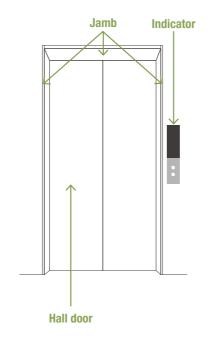
Actual illumination brightness and colors may differ.

\*1 The ceiling is not compliant with EN81-20/50 and SS550.

In case of EN81-20/50, it can be used if the customer agrees.

\*2 The tile is not compliant with SS550.

# **Hall designs**







AS-1X (2PC0) **Standard** Jamb: Stainless steel hairline Hall door: Stainless steel hairline Indicator: Dot-matrix













**SL-2X** (2PC0) Jamb: Stainless hairline Hall door: Stainless steel hairline Indicator: LCD



**TL-2X** (2PC0) Jamb: Stainless steel hairline Hall door: Stainless steel hairline **Indicator:** LCD

Note: Illustrations show simulated views of elevator interiors. Actual illumination brightness and colors may differ.

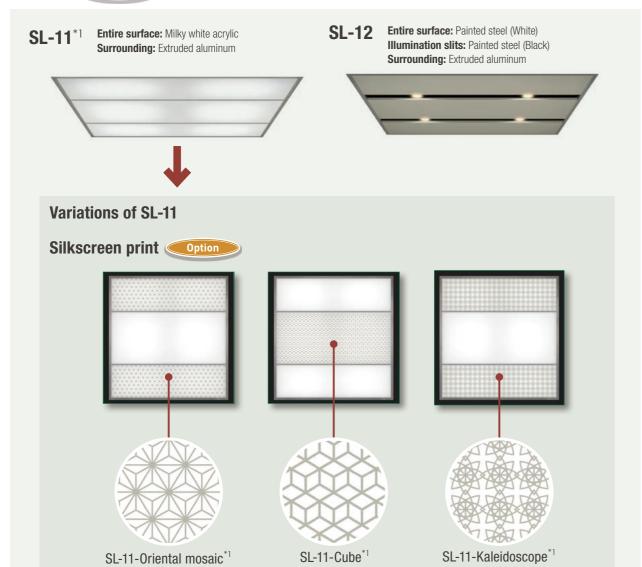
# **C**eilings and **H**andrails

# **Ceilings**





## Select Option



Note: It is also possible to use ceiling materials supplied and installed by the customer.

Note: Depending on applicable regulations, car too emergency trap door may be required.

\*1 The ceiling is not compliant with EN81-20/50 and SS550. In case of EN81-20/50, it can be used if the customer agrees.

\*2 For some car sizes, there are two milky white acrylic options.



# DX-101\*1 DX-11 DX-104 **Center:** Painted steel (White) **Center:** Painted steel (White) Entire surface: Painted steel (Black) Both sides: Milky white acrylic Indirect lighting Down light Surrounding: Extruded aluminum Both sides: Painted steel (White) **Trim:** Stainless steel Down light Surrounding: Extruded aluminum **Variations of DX-101** Silkscreen print Option DX-101-Lattice\*1 DX-101-Geometric star\* DX-101-Arabesque\*



**EX-11**\*1 Entire surface: Glass fiber cloth

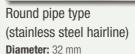
Note: It is also possible to use ceiling materials supplied and installed by the customer.

Note: Depending on applicable regulations, car top emergency trap door may be required.

\*1 The ceiling is not compliant with EN81-20/50 and SS550. In case of EN81-20/50, it can be used if the customer agrees.

## Handrails Option



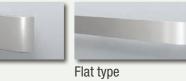




(aluminum) Width: 90 mm



Flat type (stainless steel hairline) Width: 90 mm

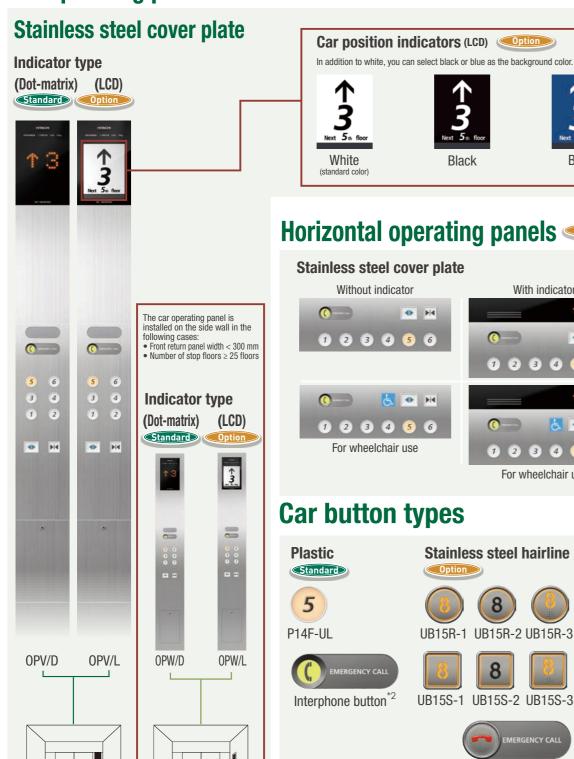


(stainless steel hairline) Width: 50 mm

Note: Illustrations show simulated views of handrail designs. Actual illumination brightness and colors may differ

# **Car operating panels**

OUG-ON1



# **Horizontal operating panels**



3



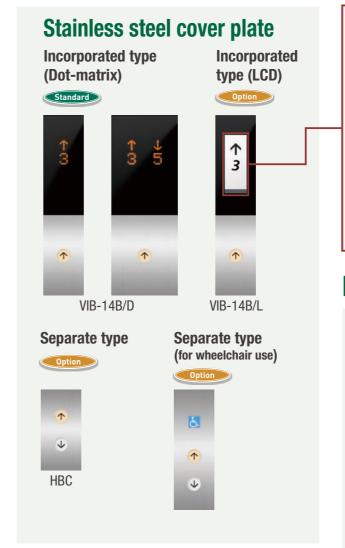
# **Car button types**



 $^{*}$ ] Illumination colors are only applicable for stainless steel hairline buttons.

\*2 Only circular interphone buttons are available. Other specifications (illumination color, Braille, etc.) of the interphone button change according to each floor button. Please consult Hitachi or a local agent if other

# Hall operating panels



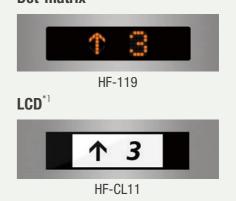


## **Horizontal indicators**



# **Stainless steel cover plate**

**Dot-matrix** 



# Hall lanterns option

# **Stainless steel cover plate**





Triangle lanterns (horizontal type) (LED)



Triangle lanterns with dot-matrix indicator (LED)



HLS-025SD2\*2

# **Hall button types**



- \*1 The LCD backlight can be changed from white to black or blue. (Standard color: White)
- \*2 Stainless steel non-directional hairline cover is available. (Option)
  The lantern illumination color can be changed to white. (Standard illumination color: Umber)

\*3 Illumination colors are only applicable for stainless steel hairline buttons.

5474UN

Silverbrush

Wood-Cross

5261NT

Sandy

7157UN

Cosmic Dawn Powdered Oak



Bronze

 $\ensuremath{^{*}}$  Colored stainless steel is available for hairline and mirror options.

P 0803\*

Black

Note: It is also possible to use floor materials supplied by the customer. The colors printed in the catalog may differ slightly from the actual colors.

2726NT

Natural

7158UN

Cosmic Dusk

6006UN

\*1 SUS430 (Standard), SUS304 (Option)
\*2 These LPS are not compliant with EN81-20/50 and SS550. In case of

EN81-20/50, they can be used if the customer agrees. \*3 These vinyl tiles are not compliant with SS550.

\*4 These vinyl tiles are compliant with EN81-20/50.
\*5 These vinyl tiles are not compliant with EN81-20/50, but they can be used if

the customer agrees.
\*6 Stainless steel hairline etching and mirror etching can only be applied to

SL-2X and TL-2X.

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SD-1038

SD-1046

SD-1051

\* Stainless steel hairline etching and mirror etching cannot be used for the hall jamb.

SD-1056

: Etched area : Non-etched area

# Design variations

## **Car design variations**

●: Standard / ◎: Option

No.	Item			Finishes/Types	Passenger Service
1				Standard (BS-11)*2	•
2				Select (SL-11)*2 (SL-11-Oriental mosaic)*2 (SL-11-Cube)*2 (SL-11-Kaleidoscope)*2 (SL-12)	
3	Ceiling*1			Deluxe (DX-101)*2 (DX-101-Lattice)*2 (DX-101-Geometric star)*2 (DX-101-Arabesque)*2 (DX-11) (DX-104)	
4	-			Premium (EX-11)*2	
				· · ·	
5				Stainless steel hairline	
6				Colored stainless steel hairline (Gold, Bronze, Black)	0
8				Stainless steel hairline etching  Colored stainless steel hairline etching (Gold, Bronze, Black)	0
9				Stainless steel namine etching (Gold, Brotize, Black)	0
10	-	Colored stainless steel mirror (Gold, Bronze, Black)			
11	Car door / 3 sid	lo walle		Stainless steel mirror etching	
12	Gai uooi / 3 sic	ic walls		Colored stainless steel mirror etching (Gold, Bronze, Black)	
13	-			Stainless steel non-directional hairline	0
14	-			Stamless steel non-directional namine  Decorated steel*3	
14					
15				Laminated plastic sheet*4 *5 (7170UN) (2726NT) (5261NT) (5474UN) (7171UN) (7158UN) (7157UN) (0869NT) (8834NT) (6006UN)	0
16				Rust Proof Coating Steel	0
17				Stainless steel hairline	•
18				Colored stainless steel hairline (Gold, Bronze, Black)	0
19				Stainless steel hairline etching	0
20				Colored stainless steel hairline etching (Gold, Bronze, Black)	0
21				Stainless steel mirror	0
22	Front wall and	transom		Colored stainless steel mirror (Gold, Bronze, Black)	0
23				Stainless steel mirror etching	0
24	_			Colored stainless steel mirror etching (Gold, Bronze, Black)	0
25				Stainless steel non-directional hairline	0
26				Decorated steel*3	0
27				Rust Proof Coating Steel	0
28	Kick plate			Stainless steel hairline	0
29				Stainless steel non-directional hairline	
30	Sill			Extruded hard aluminum	
31				Stainless steel	
32	Floor*1 *6			Vinyl tile (S 442M)*7 (S 444M)*7 (S 629M)*7 (S 657M)*7 (S 659M)*7 (S 660M)*7 (S 673M)*7 (P 0803)*8 (P 0807)*8	•
33		Round type	stainless steel hairline	Diameter: 32 mm (one row)	0
34			stainless steel	Width: 50 mm (one row)	0
35	Handrail	Flat	hairline	Width: 90 mm (one row)	0
36		type	nan inio	Width: 90 mm (two rows)	0
37		typo	aluminum	Width: 90 mm (one row)	0
38			arammam	Width: 90 mm (two rows)	0
39		Vertical*	9	Dot-matrix indicator (OPV/D)	•
40	Car operating Horizontal			LCD indicator (OPV/L) (White, Black, Blue)	0
41			tal	Without indicator	0
42				Dot-matrix indicator	0
43		Horizont		Without indicator	0
44		wheelch	lair	Dot-matrix indicator	0
45				Stainless steel hairline	•
46	Car operating p	oanel cove	er plate	Stainless steel mirror	0
47				Stainless steel non-directional hairline	0
48	Button type			Plastic (P14F-UL)	•
49	49 Button type			Stainless steel hairline*10 (UB15R-1) (UB15R-2) (UB15R-3) (UB15R-4) (UB15S-1) (UB15S-2) (UB15S-3) (UB15S-4)	0

- \*1 It is also possible to use materials supplied and installed by the customer.

  \*2 These ceilings are not compliant with EN81-20/50 and SS550. In case of EN81-20/50, they can be used if the customer agrees.

  \*3 Decorated steel is available in the following cases:

  (1) Ceiling height (CH) with respect to each ceiling type:

  BS-11, BY OTHERS: CH ≥ 2,300 mm

  SL-11, 12, DX-11, 101: CH ≥ 2,500 mm

  DX-104, EX-11: Not available

  (2) Entrance height (EH) ≥ 2,100 mm

  \*The LPS comes with a stainless steel hairline trim edge.

  \*5 These LPS are not compliant with EN81-20/50 and SS550. In case of EN81-20/50, they can be used if the customer agrees.

  \*6 These vinyl tiles are not compliant with EN81-20/50.

  \*7 These vinyl tiles are not compliant with EN81-20/50. But they can be used if the customer agrees.

  \*9 Depending on the size of the car, may be mounted on a side wall.

- \*9 Depending on the size of the car, may be mounted on a side wall.
  \*10 The available button illumination colors are yellow, red, white, and blue.

## **Hall design variations**

●: Standard / ◎: Option

0.	Item		Finishes/Types	Passenger Service					
1			AS-1X	00/1/100					
2			SS-1X	0					
3	Jamb type		TS-1X	0					
1			SL-2X	0					
;			TL-2X	0					
			Stainless steel hairline						
$\exists$			Colored stainless steel hairline						
$\dashv$			Stainless steel mirror	0					
۲	Jamb finish		Colored stainless steel mirror	0					
Н			Stainless steel non-directional hairline	0					
$\exists$				0					
$\rightarrow$			Rust Proof Coating Steel	-					
			Stainless steel hairline	•					
-			Colored stainless steel hairline (Gold, Bronze, Black)	0					
4			Stainless steel hairline etching	0					
+			Colored stainless steel hairline etching (Gold, Bronze, Black)	0					
	Transom finish		Stainless steel mirror	0					
4			Colored stainless steel mirror (Gold, Bronze, Black)	0					
4			Stainless steel mirror etching	0					
4			Colored stainless steel mirror etching (Gold, Bronze, Black)	0					
+			Stainless steel non-directional hairline	0					
			Rust Proof Coating Steel	0					
+			Stainless steel hairline	•					
			Colored stainless steel hairline (Gold, Bronze, Black)	0					
			Stainless steel hairline etching	0					
			Colored stainless steel hairline etching (Gold, Bronze, Black)	0					
			Stainless steel mirror	0					
	Hall door		Colored stainless steel mirror (Gold, Bronze, Black)	0					
	iiaii uuui		Stainless steel mirror etching	0					
٦			Colored stainless steel mirror etching (Gold, Bronze, Black)	0					
			Stainless steel non-directional hairline	0					
			Laminated plastic sheet*1 (7170UN) (2726NT) (5261NT) (5474UN) (7171UN) (7158UN) (7157UN) (0869NT) (8834NT)	0					
Н			(6006UN)						
			Rust Proof Coating Steel	0					
4	Sill		Extruded hard aluminum	•					
		ı	Stainless steel	0					
4		Incorporated	Stainless steel hairline	•					
-		indicator	Stainless steel mirror	0					
$\exists$	Hall button cover plate		Stainless steel non-directional hairline	0					
_		Separate	Stainless steel hairline	0					
4		indicator	Stainless steel mirror	0					
			Stainless steel non-directional hairline	0					
		Incorporated	Stainless steel hairline	0					
		indicator	Stainless steel mirror	0					
╛	Hall button cover plate		Stainless steel non-directional hairline	0					
	for wheelchair use	Congrato	Stainless steel hairline	0					
		Separate indicator	Stainless steel mirror	0					
		mulator	Stainless steel non-directional hairline	0					
7		Vertical	Dot-matrix Dot-matrix	•					
┨	Indicator	Vertical	LCD (White, Black, Blue)	0					
٦	Indicator	Harimantal	Dot-matrix (HF-119)	0					
┪		Horizontal	LCD (HF-CL11) (White, Black, Blue)	0					
			Stainless steel hairline	0					
1	Horizontal indicator cov	er plate	Stainless steel mirror	0					
			Stainless steel non-directional hairline	0					
			Plastic (P14F-UL)	•					
Button type			Stainless steel hairline*2 (UB15R-1) (UB15R-2) (UB15R-3) (UB15R-4) (UB15S-1) (UB15S-2) (UB15S-3) (UB15S-4)	0					
٦				0					
-	Vertical		Square lanterns (HLC-304) (Orange, White)	_					
			Round lanterns (HLC-303) (Orange, White)	0					
	Lantern								
	Lantern	Horizontal	Triangle lanterns (HLS-025S2)						
	Lantern	Horizontal	Triangle lanterns with dot-matrix indicator (HLS-025SD2)	0					
	Lantern Cover plate	Horizontal							

<sup>\*1</sup> The LPS comes with a stainless steel hairline trim edge and cannot be used for the hall door when fire rated doors are required.

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<sup>\*2</sup> The available button illumination colors are yellow, red, white, and blue.

# Functions

lacktriangle: Standard / lacktriangle: Option

No.	Name		Description	Passenger Service
Oper	ating systems			
1	Simplex collective co	ntrol	This is a fully automatic operation used for a single elevator system. Hall calls in the direction in which the elevator is travelling are responded to sequentially and when all calls in that direction are cleared, calls in the opposite direction are responded to. When there are no more calls, the elevator will stop at the last floor served.	•
2	2 Duplex collective control		This is a fully automatic operation used for a two-elevator system. Hall calls are responded to by whichever elevator that can serve the hall call faster. When there are no more calls, one of the elevators will stand by at the stand by floor while the other elevator stays at the last floor served.	0
3	FIBEE FI-10		Allows the passenger to preselect the destination floor on the destination floor panel installed at the landing hall. This reduces button operations to one, improving the operability.	0
4			This is a simplified group control system used to operate three or four elevators. The system provides a ring control to allocate the elevator car closed to the floor where a new hall call is registered.	0
5	Group control	FI-100	This is a group control system used to operate three to six elevators in a medium-sized building. This control system uses "reference-trajectory control", which is based on the theory used in the highest model of the "future reference-trajectory control".	0
6		FI-600	This is a group control system used to operate three to eight elevators in a large-sized building. This control system consists of three smart systems; "future reference-trajectory control", "learning system" and "intelligent system".	0
7	7 Down collective control		For this system, all floors have "down" call buttons only, except for the stand by floor, where there is "up" call button only. The other operations are the same as in selective-collective and duplex selective-collective operations.	0
	ice functions			
1	Automatic return fun	ction	After all the calls have been served, the elevator will return to the stand by floor for stand by.	◎*1
2	Attendant operation		For this system, the stop floor is manually set by an attendant, such as in a department store.	0
3	Independent operation	n	This operation system is used when there is a need to serve special passengers. Under this operation, all hall calls are disabled for the elevator and it is reserved for exclusive use of the special passengers.	0
4	Parking operation		The elevator can be parked at the parking floor by a key switch.	⊚*2
5	Rush-hour schedule	operation	All the elevators will automatically return to the stand by floor, after serving the last call during this preset rush-hour timing.	0
6	Separated simplex or	peration	When duplex collective control or group control is used, a selector switch on the control panel is used to switch between parallel operation and independent operation.	0
7	Rush-hour schedule operation Separated simplex operation Interphone system		An interphone system is provided for emergency communication between the elevator and the master unit in the supervisory panel, etc.	•
8	Floor lock-out operat		Specific service floors can be locked-out by activating a switch.	0
9	Temporary call regist certain restricted floo		By inputting a pre-programmed code using the car operating board floor buttons, passengers can gain access to certain restricted floors.	0
10	Door nudging operati	on	When the door has been open for a certain period of time, a buzzer sounds and the door forcibly closes.	0
	·		*1 Included in the standard configuration when dupley collective control or group control	

<sup>\*1</sup> Included in the standard configuration when duplex collective control or group control is selected.
\*2 Included in the standard specifications for Thailand, Laos, Myanmar, and Cambodia.

		•: Standard /							
Vo.	Name	Description	Passenge Service						
afe	ty functions								
1	Abnormal speed protection function	In the event that the elevator is moving downwards at an abnormally high speed, the brakes will be automatically engaged and the elevator will cease operation.	•						
2	Out of door-open zone alarm	In the event that the elevator stops out of the door-open zone of a selected floor, doors will not open, and an alarm will sound in the elevator.	•						
3	Rescue operation	When the elevator stops out of the door-open zone, it will move to the nearest floor at slow speed o release passengers.							
4	Door safety return system	n the event of door overload, such as when passengers get their fingers, hands or personal belongings caught in the door, this system automatically senses this and either re-closes or re-opens he doors to prevent injury.							
5	Micro-leveling	Automatic correction of elevator landing level when there is a level difference between car and floor.	•						
6	Car emergency lighting	In the event of a power failure, an emergency light inside the elevator will be automatically activated.	•						
7	Emergency Battery Operated Power Supply (EBOPS/UPS)*1	In the event of a power failure, this emergency supply allows the operation of a light and alarm bell, etc.	0						
8	Multi-beam door sensor	In the event that the beam paths are obstructed, this sensor, installed at the edge of the doors, will keep the doors open.	•						
9	Door signal with multi-beam door sensor	In addition to the multi-beam door sensor, the safety shoe is equipped with a signal that indicates when the doors are starting to close. (2PCO: Both sides, 2S2P: One side)	0						
10	Door safety edge	Mechanical safety units are installed on both sides (2PCO) or one side (2S2P) of the elevator doors. In the event of passengers coming into contact with the safety edges of closing doors, the doors will immediately reopen.	0						
Acce	essibility								
1	Car floor button flashing	The registered car destination floor button flashes when the car approaches the floor.	•						
2	Braille plate	Braille plates are fixed next to the operation buttons in the car and hall.	0						
3	Sound button	An electronic tone sounds when the buttons are pressed to confirm call registration.							
4	Induction loop for hearing devices*2	This function allows a passenger to select the "Telecoil mode" on their hearing aid or cochlear implant to communicate with people at other locations via the intercom in an emergency. It conveys the audio signal from the intercom directly to the passenger's hearing aid or cochlear implant.	0						
Seci	urity functions								
1	Intelligent operation security system by card reader (by others)	This function allows controlled access to certain floor by means of ID cards.  Note: ID card-reader system is to be provided and installed by others. Interfacing shall be by means of dry (voltage-free) contacts.	0						
2	CCTV (camera by others, coaxial cable by Hitachi)	This system enables the security personnel to monitor inside the elevator car. This will be effective in preventing criminal and mischievous acts inside the elevator car. (CCTV system, including wiring, is to be supplied by others.)	0						
nfo	rmation functions								
1	IC auto announcement (English / Thai / Malay / Mandarin / Cantonese / Portuguese)	Preset standard messages are announced to the passengers.	0						
2	Public address speaker	A speaker for background music and public announcements for the building can be installed in the elevator. (Music and announcement systems, including wiring, are to be provided by others.)	0						
3	Arrival audio signal	An electrical chime (located at the top and bottom of the elevator) will sound just before the arrival of the elevator.	0						
Ener	gy-saving functions								
1	Regenerative system	When traveling downwards with a heavy car load or upwards with a light car load, the traction machine acts as a power generator to transmit power back to the electrical network in the building.	0						
2	Automatic turn-off of elevator light and fan	In the event that the elevator is not in use, the light and ventilation fan in the elevator are automatically turned off to conserve energy.	•						
		*1 EBOPS (UPS) is provided as a standard specification when it is required by	regulation						

<sup>\*1</sup> EBOPS (UPS) is provided as a standard specification when it is required by regulations.
\*2 Induction loop for hearing devices is used in combination with EN81-20/50.

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		• : Standard /	∵ ©: Option
No.	Name	Description	Passenger Service
User	services		
1	Observation	The walls of the elevator are equipped with windows, giving the elevator interior a more open feel.	0
2	Door open time adjustment	The duration of the door open timing is tailored to usage conditions, substantially improving operational efficiency.	•
3	Door open prolong button	In the event that this button on the car operation board is pressed, the elevator doors remain open for a pre-set period of time.	0
4	Automatic bypass operation	In the event that the elevator is fully loaded, this operation will not respond to any hall calls and will only respond to the car calls.	0
5	Mischievous call cancellation	In the event that a large number of calls is registered by a small number of passengers, the calls are determined to be mischievous and will be automatically cancelled upon responding to the next call. This eliminates unnecessary stops.	•
6	Floor "deselect" function	This function allows passengers to cancel the selection of a floor which is accidentally pressed by pressing the button again. (This eliminates unnecessary stops.)	•
7	Supervisory panel	This panel provides various supervisory operations, including communication and status monitoring.	0
8	Elevator monitoring system (EMS)	This system shows the real time situation of the elevators such as the elevator position, movement direction and abnormal operation on the PC (Personal Computer) display. It is also possible to turn on/off the elevators and change the service floors of the elevators using the PC.	0
9	Ion generator*1	A device that generates ionic microparticles enclosed in water is mounted on top of the car to ensure pleasant air quality inside the elevator.	0
10	Air conditioner	An evaporative-type cooling unit eliminates the need for pit drainage. This enhances comfort inside the elevator.	0
Eme	rgency operations		
1	Earthquake emergency operation	In the event that an earthquake is detected, the elevator will stop at the nearest floor.	0
2	Earthquake emergency operation with primary wave sensor	When primary wave of an earthquake is detected, the elevator moves to the nearest floor and stops.	0
3	Fire emergency operation	In the event of fire, the elevator is automatically brought to the designated floor where it remains inoperative for passengers' safety. EN81-73 is available if required.	0
4	Automatic rescue device for power failure	In the event of power failure, this system automatically switches to battery power to bring the elevator to the nearest floor.	0
5	Emergency operation for power failure	In the event of building power failure, the elevator can be operated by the building standby generator to move the elevator to the designated floor. (Automatic / Automatic and manual)	0
6	Pit flood operation	Elevator operation is paused when pit flooding is detected.	0
7	Fireman operation	In the event that the fireman switch is turned on, the elevator returns to the designated floor and will be ready for firemen's use.	0
Othe	r functions		
1	Counterweight safety	A safety device is installed on the counterweight to maintain the rails and prevent falling.	0
2	Through door	Doors are installed on both sides of the elevator.	0
3	Freight condition of service lift	The elevator floor is reinforced to enable it to accommodate a larger volume of freight at once.	0
4	Over voltage detection device	When an abnormal increase in power supply to the elevator system is detected, the power supply will be cut off to prevent damage to the elevator equipment.	0
5	Maintenance operation	Elevator operates at lower speed during maintenance.	•
6	Overload detection system	In the event of overloading, this system will activate an audio / visual signal to prevent the elevator from moving.	•
7	Nearest landing door operation	In the unlikely event of temporary trouble during operation, the elevator automatically goes to the nearest floor at a low speed and doors will open to prevent passengers from being trapped inside.	•
8	Hook for protection sheet	The 3 side walls are equipped with hooks to facilitate mounting of protective mats.	0
9	Checker plate	A steel plate is affixed to the floor of the elevator.	0
10	Protection plate (stainless steel hairline) (H=300 mm)	Protective stainless steel plates are installed to protect the area extending upward 300 mm from the bottom edge of three-side walls in car.	0
11	Protection plate (stainless steel hairline) (H=1200 mm)	Protective stainless steel plates are installed to protect the area extending upward 1,200 mm from the bottom edge of three-side walls in car.	0
12	Sub-operating panel	Additional floor selection and door open/close buttons are located on the side opposite the main operating panel.	0
13	Keypad sub car-operating board	In order to comply with the barrier-free code, especially for high-rise buildings, individual car call buttons can be replaced by a keypad system.	0
14	Fire rated door*2	2 hours fire rated landing doors are available where required.	0
	Fire insulation door(For Malaysia only)	2 hours fire insulation landing doors are available where required.	0
16	Emergency landing door	If there is a long distance between floors, doors are installed in a location where the elevator can stop automatically in an emergency.	0
17	Switch for emergency exit	A switch stops the elevator when the emergency exit door is opened.	0
18	9 -	A switch stops the elevator when the door of the door-machine inspection opening is opened.	0
19		Equipment in the hoistway is painted black.	0
20		Electromagnetic compatibility function in response to EN81-20/50 regulation, etc.	0
		This interfacing shall be done by means of electrical dry contact with the building management	
21	system	system for their monitoring.	0

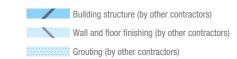
<sup>\*1</sup> The ion generator is not available in the following cases:

(1) When the ceiling is supplied by the customer.

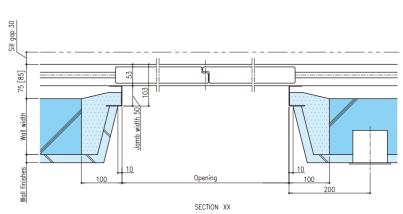
(2) When the car internal depth is 1,250 mm or less.

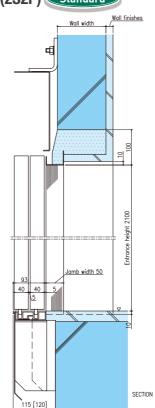
\*2 Fire rated door is provided as a standard specification when it is requied by regulations.

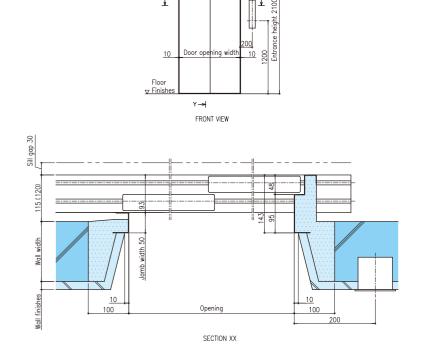
## **Dimensions**



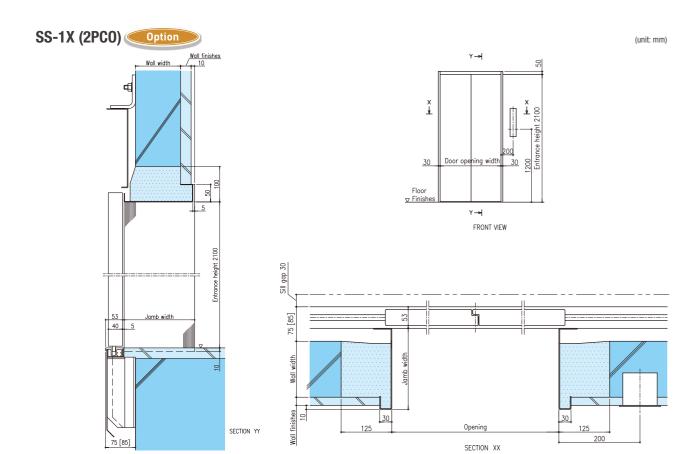
AS-1X (2PCO) Standard (unit: mm) FRONT VIEW

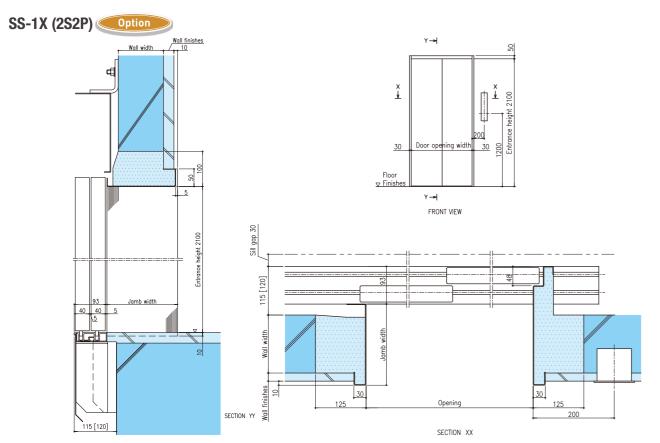




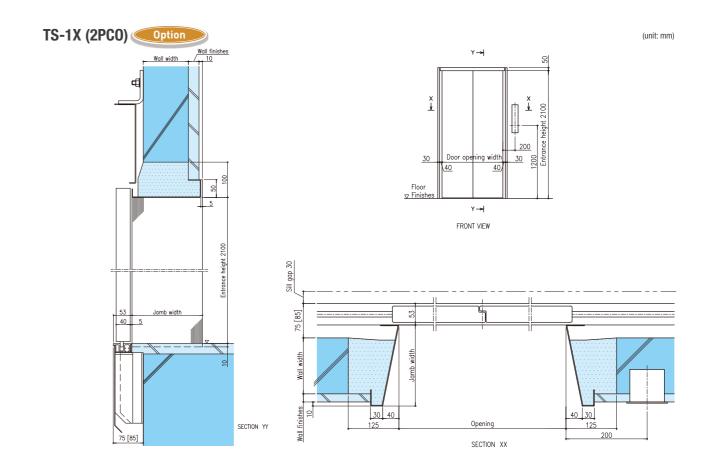


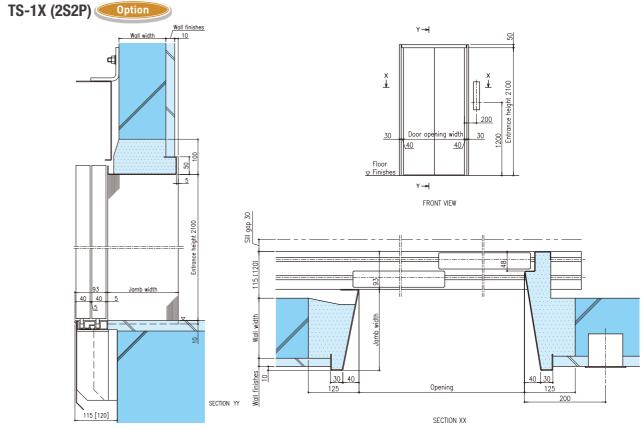
Note: [ ]: With fire rated door Note: This structure is not for fire insulation door. Please consut Hitachi or a local agent for detail.





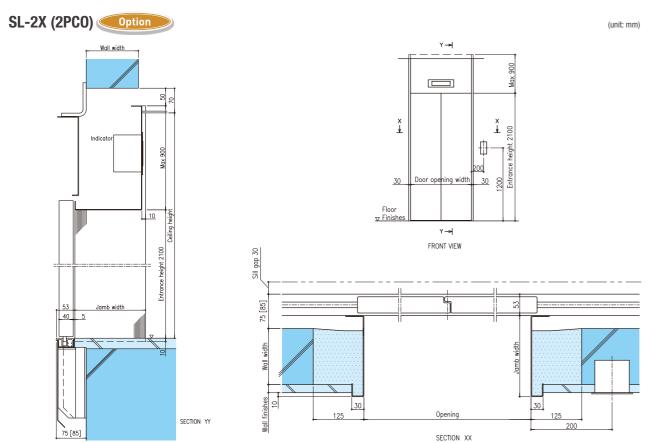


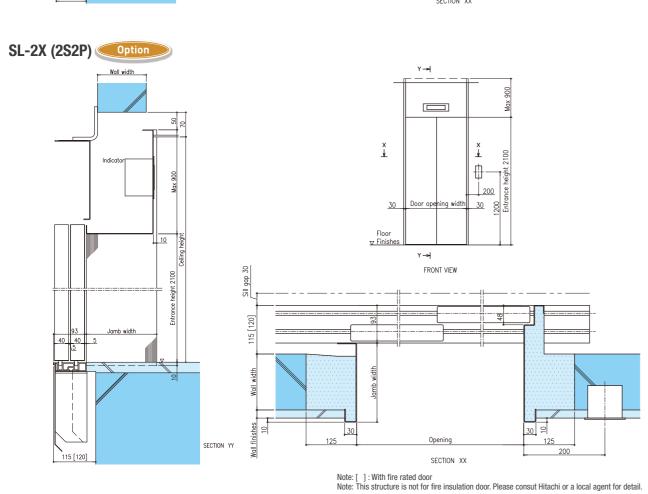


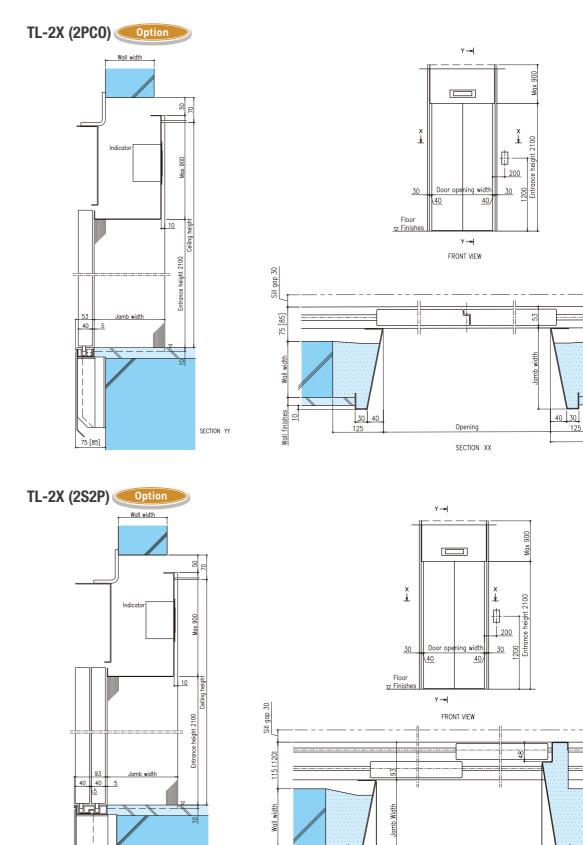


Note: This structure is not for fire insulation door. Please consut Hitachi or a local agent for detail.

(unit: mm)







SECTION XX

30 40 125

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## Work to be done by building contractors

The preparatory work for elevator installation outlined in the table below should be undertaken by building contractors in accordance with Hitachi drawings and in compliance with local or relevant codes and regulations.

No.	Items
1	Prepare hoistway with proper framing and enclosure, suitable pit of proper depth with drains and water-proofing if required, and properly lit and ventilated hoistway of adequate size with concrete floors, access doors, ladders and guards as required.
2	Provide and/or cut all necessary holes, chases, openings and finishes after equipment installation.
3	Supply and secure all supports, reinforced concrete slabs, etc., necessary for installation of the machinery, doors, buffers, etc.
4	Furnish all necessary cement and/or concrete for grouting of brackets, bolts, machine beams, etc.
5	Prepare and erect suitable scaffolding and protective measures during work in progress.
6	Furnish mains for three-phase electric power and single-phase lighting supply for car lighting and lift pit and power outlet to the hoistway, following the instructions of the elevator contractor on outlet position and wire size.
7	Provide, free of charge, a suitable theft-proof storage area for materials and tools during erection work.
8	Supply electric power for lighting of work area, installation work, elevator testing and spray painting.
9	Hoisting hook at top of the hoistway.
10	Hoistway ventilation to be provided to maintain the hoistway temperature at below 40°C.
11	Manufacture and installation of separating beam (if necessary).

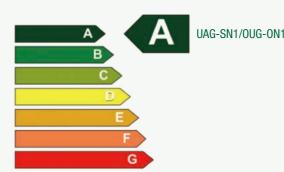
## **Hitachi Eco-Achievement**

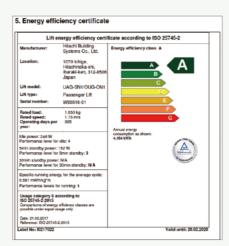
## Hitachi's elevators achieved the highest energy efficiency class rating.

ISO 25745 is an international standard for evaluating the energy consumption and classifying the energy efficiency of elevators and escalators. ISO 25745-2 applies to the energy efficiency of elevators. It establishes seven classes, from A to G, with class A representing the highest level of energy efficiency.

Hitachi's UAG-SN1 and OUG-ON1 have achieved the highest rating.

#### Energy efficiency class A





Model	UAG-SN1/OUG-ON1	UAG-SN1/OUG-ON1		
Location	Japan	Japan		
Rated load	1,050 kg	1,635 kg		
Rated speed	1.75m/s (105m/min.)	1.75m/s (105m/min.)		
No. of stops	4	4		
Travel	19.5 m	19.5 m		
Operating days per year	365	365		
Annual energy consumption	4,184 kWh	4,633 kWh		
Usage category	6	5		
Classification of lift [A-G]	А	А		

Note: The measured class differs depending on the usage conditions.

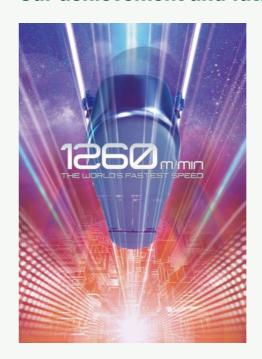
## **Environmental activities**

The Hitachi Group is engaged in environmental initiatives at its factories and offices. Siam Hitachi Elevator Co., Ltd. (Thailand) is working to combat global warming by reducing energy consumption. Lighting in their production facilities areas has been switched to LED lighting, and they have reduced electricity consumption of lighting by approximately 70%.\*

\* Assuming the lighting fixtures (approximately 250 fixtures) are used under the same conditions.



## Our achievement and future



# The world's fastest elevator

Hitachi's elevator, which was delivered to Guangzhou CTF Finance Centre, a skyscraper complex building in Guangzhou, China, started operation with the speed of 1,260 m/min, the world's fastest\* among all elevators operating today. The elevators feature technologies that support safe and comfortable operation, in addition to the drive and control technologies needed to attain the Ultrahigh-Speeds. Hitachi will utilize this achievement for future product development, and strive to offer elevators with higher running quality as well as safety and comfort.

\* According to Hitachi's research as of September 2019

## Drive and control technologies to attain Ultrahigh-Speed of 1,260 m/min.

Hitachi has developed a permanent magnet synchronous motor that achieves both a thin profile and the high output needed to attain a speed of 1,260 m/min.

## Safety features supporting Ultrahigh-Speed elevator operation

Hitachi developed brake equipment using braking materials with outstanding heat resistance to safely stop the elevator car in the unlikely event that a malfunction is detected during Ultrahigh-Speed operation.



Traction mechanism for 1,260 m/min

## Elevators can be used comfortably with safety even over long travel.

Active guide rollers that detect minute warping in the guide rails and lateral vibration due to wind pressure are installed in the four corners (top and bottom, left and right) of the elevator car. This gives passengers a comfortable ride even during high-speed operation.

The sensation of ear blockage is reduced by Hitachi's proprietary air pressure adjustment technology, which reduces the changes in air pressure inside the elevator car that would otherwise be caused by vertical movement through long travel.



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# Research and development

Modern manufacturing plants in Thailand and Singapore supply valuable products to customers. Equipment is made to the highest standards of quality and reliability on cutting-edge production lines.



Siam Hitachi Elevator Co., Ltd. (Thailand)



Hitachi Elevator Asia Pte. Ltd. (Singapo

# Excellence and flexibility in design at manufacturing plants in Thailand and Singapore

The modern manufacturing plant in Thailand and Singapore boasts a complete team of local and Japanese engineers and is geared towards providing maximum flexibility in design and manufacturing to suit customer requirements.

High accuracy and efficiency in planning of equipment layout is made possible by the most advanced CAD systems.

Equipment is made to the highest standards of quality and reliability with modern CNC machinery.



Mito Works, Hitachi, Ltd. (Japa

# An integrated engineering system from development to design and production

Head office, research centers, and plants work closely together to develop new technologies.

Staff throughout the company work together as one team to conduct research and develop technologies.

## High performance simulator enhances overall elevator system efficiency.

A high-performance simulator is utilized for all stages of elevator development, from planning through system design. Planning, research and development are carried out according to the results of this statistical analysis.

#### **Cutting-edge CAD/CAM systems**

The latest in CAD/CAM systems help us carry out elevator layout and various other design and production steps more quickly and efficiently.



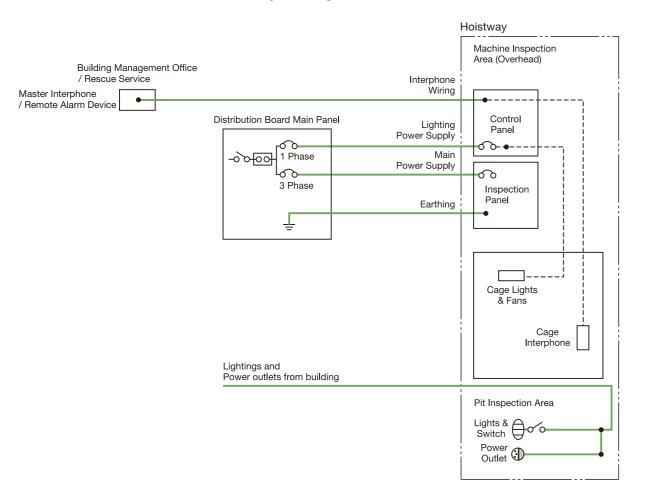
Hitachi, Ltd. (TSE: 6501), headquartered in Tokyo, Japan, is focusing on Social Innovation Business combining its operational technology, information technology and products. Hitachi delivers digital solutions utilizing Lumada in five sectors including Mobility, Smart Life, Industry, Energy and IT, to increase our customer's social, environmental and economic value.

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## **Electrical information**

## Wiring Diagram

shows the works to be done by building.



## **■**Work to be provided by building

Item	Works to be provided by building
Main power supply 11	To provide AC 3 phase 200 to 480V 50/60Hz main power supply with maintaining to ensure that the power supply does not fluctuate outside the range of -10% to +10% of the normal voltage rating and to ensure that the unbalance factor of voltage does not exceed $5\%$ .
Lighting power supply"	To supply and install AC single phase (20Amp) lighting power supply for car lighting, EBOPS and maintenance work.
Interphone 1	To provide piping and wiring (12 wires of 0.9mm²/elevator) for interphone located outside the hoistway.
Pit, hoistway lightings & power outlets	To supply and install AC single phase power outlet and lighting with switch located at accessible area from the entrance at bottom landing level for maintenance purpose. Arrange necessary to comply to local code & regulation.

Note: In the case that builder provides leak current detector at the side of main power, please use "invertor type" or "detector which does not do unnecessary operation for high frequency".

OUG-ON1 | 19 RE-E223-6 0919



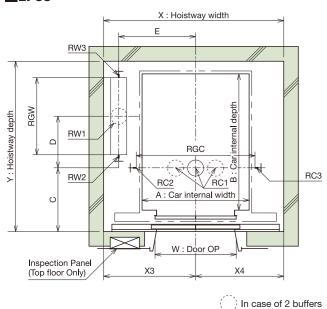
# MACHINE ROOM-LESS ELEVATOR

Model OUG Series ON1
PLANNING INFORMATION

<sup>\*1</sup> Main power, lighting power, indicator power supply and interphone wiring shall be led into the hoistway at the highest lift landing.

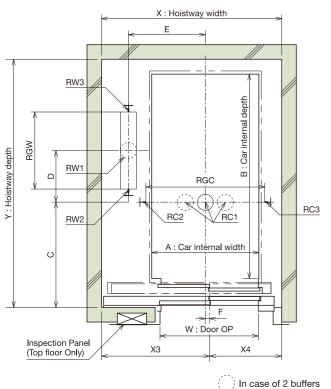
## **Hoistway dimension**

## **2PC0**



Hoistway dimension and Pit reaction loading

## **2S2P**



Hoistway dimension and Pit reaction loading

## **Dimension and reaction loading of hoistway**

## ■Based on Hitachi standard and EN81-20/50 regulations

			Rated		Door OP	Car internal	*I					_	_				Pit	reaction loa	ding *3*4*5	[kN]	
No.	Load	Persons	speed	Door type	width W	size A × B	Hoistway X × Y			Lo	ocatio	n [mi	m]				Car side			nterweight	side
	[kg]		[m/s] (m/min)	гуре	[mm]	[mm]	[mm]	Х3	X4 *1	C *2	D	Е	F	RGC	RGW	RC1	RC2	RC3	RW1	RW2	RW3
1			1.0(60)														35.0(221.5)	28.5(215.0)		16.0(198.5)	25.5(212.0)
2			1.5(90)			1100×1400	1900×1800	1000	900	[690]		845		1330			39.5/391.0)	31.5(274.0)		19.5(256.5)	28.5(270.5)
3	630	8	1.75(105)							[000]						72.5	30.3(201.0)	31.3(274.0)	59.5	10.5(250.5)	20.3(270.3)
4		1.5(90)	1.0(60)		800		2050×1700		945	635						12.0	35.0(221.5)	28.5(215.0)	00.0	16.0(198.5)	25.5(212.0)
5			-			1400×1100	(2100×1700)	1105	(995)	[645]	530	950		1540	800		38.5 (281.0)	31.5(274.0)		18.5 (256.5)	28.5(270.5)
6 7			1.75(105)												-		07.5 (007.0)	20 5 (010 5)		10 5 (001 5)	07.0(010.0)
8			1.0(60)				2150×1800	1150	1000	680		970				79.5	37.5(227.0)	30.5(219.5)	64.0	10.5(201.5)	27.0(216.0)
9	750	10	1.75(105)			1350×1400	2130/1000	1130	1000	[690]		370		1580		75.5	41.0(286.0)	33.5(278.5)	04.0	19.0(259.5)	30.0 (274.5)
10			2.0(120)							705						l	/	/		(	
11			2.5(150)				2250×2000	1235	1015	[715]	640	1030			900	97.5	64.5 (689.5)	54.5 (679.0)	81.5	35.5(651.0)	52.5 (677.0)
12			1.0(60)														41.0(230.5)	33.0(222.5)		17.0(201.5)	29.0(218.0)
13			1.5(90)	2PC0			2200×1850	1175	1025	705	530	1000	0		800	91.0	44.5(289.5)	36.5(281.5)	73.0	20.0(259.5)	32.0(277.0)
14			1.75(105)			1500×1450				[715]				1640			(200.0)	0010 (20110)			0=0 (= 110)
15			2.0(120)				2350×2000	1285	1065		640	1060			900	109.0	69.0 (693.5)	58.0 (682.5)	90.5	36.0(651.0)	54.5(679.0)
16 17	900	12	2.5(150) 1.0(60)		900								-				41.5(228.0)	33.5(220.0)		17.0(198.5)	29.0(215.5)
18			1.5(90)				2350×1750	1315	1035			1105			800	92.0	41.5(220.0)	30.3(220.0)	74.0		
19			1.75(105)		1600×1350	(2400×1750)		(1085)	[665]				1740	32.0	45.0(287.0)	36.5 (278.5)		19.5 (256.5)	32.0(274.0)		
20		l ⊢	2.0(120)				2450×2000	1225	1115	705	640	1110			900	111.0	69.0(693.5)	E0 0/600 E)	92.5	36.0(651.0)	EE 0(670 E)
21			2.5(150)				2450^2000	1333	1113	[715]	040	1110			300	111.0			92.3	30.0 (031.0)	33.0(079.3)
22			1.0(60)														42.0(230.5)	33.5 (222.5)		17.0(201.5)	29.0(218.0)
23			1.5(90) 1.75(105)		800		1900×2400	1010	890	980	530	845			800	94.0	45.5 (289.5)	37.0(281.5)	74.5	20.0(259.5)	32.0(277.0)
25			2.0(120)		000					[990]											
26			2.5(150)				2050×2400	1130	920		640	905			900	114.0	69.0 (693.5)	58.5 (683.0)	94.0	36.0 (652.0)	55.0 (679.5)
27	975		1.0(60)			1100×2000								1330			42.0(231.5)	34.0 (223.0)		17.5(201.5)	29.0 (218.5)
28			1.5(90)				1900×2450	1110	790	4057	530	845			800	94.0	45 5 (200 5)	37.0(282.0)	74.5	20.0(250.5)	32.0(277.0)
29		13	1.75(105)	2S2P						1057 [1062]			95				40.0 (200.0)	07.0(202.0)		20.0 (200.0)	02.0(211.0)
30			2.0(120)	2PC0		2000×2450	1205	795		640	905			900	114.0	70.0 (694.5)	58.5 (683.0)	94.0	36.5(651.0)	55.5(680.0)	
31			2.5(150) 1.0(60)												43.0(232.0)	34.5(223.5)		17.5(201.5)	20 5 (210.0)		
33			1.5(90)				2300×1800	1225	1075	680		1050	1050		800 98	98.0	98.0	34.3(223.3)	77.0	17.5(201.5)	29.5(219.0)
34			1.75(105)		1600×1400				(690)			_	1740		00.0	46.5(291.0)	38.0 (282.5)		20.0(259.5)	32.5 (277.5)	
35			2.0(120)				0.450,0000	1005	1115	705	640	1110			900	117.0	70.0/60F.0\	59.5 (684.0)	95.5	36.5 (652.0)	EE E (000 0)
36			2.5(150)		900		2450×2000	1333	1113	[715]	040	1110			900	117.0	70.0(095.0)	39.3 (004.0)	95.5	30.3 (032.0)	33.3 (000.0)
37			1.0(60)														44.0(233.0)	35.5(224.5)		17.5(201.5)	30.5(219.5)
38			1.5(90)			1000000400	1800×2850	1015	785	1257	530	795	4.5	1000	800	100.5	47.0(292.0)	38.5 (283.5)	79.5	20.5 (259.5)	33.5(278.5)
39 40			1.75(105) 2.0(120)	2S2P		1000×2400				[1262]			45	1230							
41			2.5(150)				1900×2850	1105	795		640	855			900	118.5	71.0(695.5)	59.5 (684.0)	97.5	36.5(651.0)	56.0 (680.5)
42			1.0(60)														43.5(230.0)	35.0(221.5)	77.5	17.5(198.5)	30.0(216.5)
43			1.5(90)				2000×2500	1005	995	4000	530	845			800	99.0	47.0(280.0)	38.0(280.5)	78.0	20.0(256.5)	33.0(275.0)
44	1050		1.75(105)	2PC0						1030 [1040]			-				47.0(205.0)	00.0 (200.0)	70.0	20.0 (230.3)	00.0 (27 0.0)
45			2.0(120)				2150×2500	1130	1020		640	905			900	117.0	70.0(695.0)	59.5 (684.0)	95.5	36.5 (652.0)	55.5 (680.0)
46		14	2.5(150)			1100×2100								1330		06.5	42.0(220.E)	24 E (201 0)	77.0	17 E (100 E)	20 5 (216.0)
47			1.0(60)				1900×2550	1115	785		530	845			800	96.5	40.0(229.5)	34.5(221.0)	77.0	17.5(198.5)	29.5(216.0)
49			1.75(105)	2S2P	1000		(1950×2550)		(835)	1107		540	45		550	97.5	46.5 (289.0)	38.0 (280.5)	78.0	20.0(256.5)	33.0 (275.0)
50			2.0(120)				200022552	1155	OAF	[1112]	640	005	1		000	1170	70 5 (605 5)	E0 E (C04 C)	OF F	26 5 (654.0)	E6 0(600 F)
51			2.5(150)				2000×2550	1155	845		640	905			900	117.0	70.0(095.5)	59.5 (684.0)	95.5	30.3(051.0)	56.0 (680.5)
52			1.0(60)														43.5(232.0)	35.0(224.0)		17.5 (201.5)	30.0(219.0)
53			1.5(90)	0000	000	1000:1500	2300×1900	1225	1075	730	530	1050			800	98.5	47.0(291.5)	38.0 (283.0)	77.5	20.0 (259.5)	33.0(277.5)
54 55			1.75(105) 2.0(120)	-	900	1600×1500				[740]			-	1740							
56			2.5(150)				2450×2000	1335	1115		640	1110			900	117.0	70.0 (695.0)	59.5 (684.0)	95.5	36.5 (652.0)	55.5 (680.0)
			,								\ · Tro			> 60+							

Note: Above tables shows the dimensions on the following conditions
(1) Single elevator in hoistway (2) Without counterweight safety
Please consult Hitachi or local agent if other specifications are required.

<sup>\*1 ( ):</sup>Travel distance > 60m

\*2 [ ]:With fire rated door

\*3 ( ):EN81-20/50 regulations

\*4 Rated speed 1.0m/s: Travel distance ≤ 60m

Rated speed 1.5, 1.75m/s: Travel distance ≤ 80m

Rated speed 2.0, 2.5m/s: Travel distance ≤ 120m

\*5 The pit reaction loading differs depending on the specifications and design, please consult Hitachi or local agent.

## ■Based on Hitachi standard and EN81-20/50 regulations

			Rated		Door OP	Car internal	*1 Hoistway	Landle Front								Pit reaction loading *3*4*5 [kN]					
No.	Load [kg]	Persons	speed [m/s]	Door type	width W	size A × B	X×Y	Location [mm]									Car side Counterweight side				
	[r/g]		(m/min)	турс	[mm]	[mm]	[mm]	ХЗ	X4 *1	C *2	D	E	F	RGC	RGW	RC1	RC2	RC3	RW1	RW2	RW3
57			1.0(60)														57.0(389.0)	46.0(377.5)		24.5(347.0)	40.5(372.5)
58			1.5(90)				2400×2100	1295	1105	000						122.5	62 5 (401 5)	50.5 (480.0)	98.0	28.5(448.0)	45.0(474.5)
59			1.75(105)			1600×1700				830 [840]		1110	0	1740			02.3(431.3)	30.3 (400.0)		20.5(440.0)	45.0(474.5)
60			2.0(120) 2.5(150)				2450×2100	1330	1120							128.5	75.0(699.5)	62.5(687.0)	104.0	37.5 (650.5)	58.5 (683.0)
61					1000		2100712100	1000	1120							120.0			101.0	07.0(000.07	00.0 (000.0)
62			1.0(60)													117.5	55.5 (387.0)	44.5(376.0)	94.5	24.0(347.0)	39.5(371.5)
63			1.5(90)				2600×2000	1390	1210	730						121.5	61.5(491.0)	50.0(479.5)	98.5	28.5(448.0)	44.5(474.0)
64	1200		1.75(105)	2PC0		1800×1500				[740]		1210	_	1940							
65			2.0(120)				2650×2000	1435	1215							126.5	74.0(698.0)	62.0(686.0)	102.5	37.5 (650.5)	58.0(682.5)
66		16	2.5(150)														E7.0/200.0\	40.0/277.5\		04.5(047.0)	40 E/070 E)
67 68		-	1.0(60)				2800×1950	1 405	1205	680						122.5	57.0(389.0)	46.0(377.5)	98.0	24.5(347.0)	40.5(372.5)
69			1.5(90) 1.75(105)			2000×1400		1495	1305	[690]		1310		2140		122.5	62.5(491.5)	50.5 (480.0)	96.0	28.5(448.0)	45.0(474.5)
70			2.0(120)			2000/1400				705		1310		2140							
71			2.5(150)				2850×2000	1535	1315	705 [715]						128.5	75.0(699.5)	62.5 (687.0)	104.0	37.5 (650.5)	58.5(683.0)
72			1.0(60)		1100												58.0(389.5)	46.5(378.0)		24.5(346.5)	41.0(372.5)
73			1.5(90)				2100×2750	1210	890							124.5			99.0		
74	1250		1.75(105)	2S2P		1200×2300				1207		955	45	1430			63.0(492.5)	51.0(480.5)	99.0	28.5(448.0)	45.5(474.5)
75			2.0(120)							[1212]											
76			2.5(150)				2150×2750	1235	915							130.5	75.5(700.0)	63.0(687.5)	105.0	37.5 (650.5)	58.5 (683.5)
77			1.0(60)													CE OEvOcata	59.5 (391.5)	48.0(379.5)		25.0(346.5)	42.0(374.0)
78			1.5(90)				2600×2100	1395	1205	000						65.25x2sets	6E 0/404 0\	52.5 (482.0)	103.5	29.0(447.5)	46 E ( 47E E )
79			1.75(105)		1000	1800×1700				830 [840]	640	1210		1940	900	130.5	05.0(494.0)	32.3 (402.0)		29.0(447.3)	40.5(475.5)
80			2.0(120)				2650×2100	1435	1215							140.5	78.5(703.0)	65.0(690.0)	113.0	38.5 (650.5)	60.5(685.0)
81			2.5(150)				2000-12100	1 100	12.10							1 10.0			110.0		
82			1.0(60)					000000000									65.25x2sets	59.5 (391.5)	48.0(379.5)		25.0(346.5)
83			1.5(90)			2000×1500	2800×2000	1495	1305	730		1310	) —				65.0(494.0)	52.5(482.0)	103.5	29.0(447.5)	46.5(475.5)
84	1350	18	1.75(105)							[740]				2140		130.5				+	
85			2.0(120)				2850×2000	1535	1315							140.5	78.5(703.0)	65.0 (690.0)	113.0	38.5 (650.5)	60.5(685.0)
86			2.5(150)	2PC0	PPC0 1100												00.0/000.5	40.0(075.0)		045(0445)	40.0/000.0)
87 88			1.0(60)				2800×2050	1 405	1205							66.25x2sets	60.0(386.5)	48.0(375.0)	105.0	24.5(341.5)	42.0(369.0)
89			1.75(105)			2000×1550		1495	1305	755						132.5	64.5 (489.5)	53.5 (477.0)	105.0	28.5(443.0)	46.0(470.5)
90			2.0(120)			2000×1550		[7	[765]						132.3						
91			2.5(150)				2850×2050	1535	1315							140.5	78.5(703.0)	65.0 (690.0)	113.0	38.5 (650.5)	60.5(685.0)
92			1.0(60)														60.5(391.5)	48.5(379.5)		25.0(346.5)	42.0(374.0)
93			1.5(90)				2250×2700	1170	1080							66.75x2sets			105.0		
94			1.75(105)		1000	1300×2300				1130						133.5	65.5 (494.0)	53.0 (482.0)		29.0(447.5)	46.5(475.5)
95			2.0(120)				005040700	4000		[1140]						1405	70 5 (700 0)	CC O(COO F)	1115	00.5(051.0)	00 5 (005 0)
96			2.5(150)				2350×2700	1230	1120			1005		1520		143.5	78.5(703.0)	66.0 (690.5)	114.5	38.5 (651.0)	60.5 (685.0)
97			1.0(60)									1005		1530		66.75x2sets	59.5(391.5)	48.5(380.0)		26.0(347.0)	45.0 (376.5)
98			1.5(90)					1290	910	4007						00.73825615	65 0 (494 0)	53.0 (482.5)	105.0	29.5(448.0)	49.0(478.5)
99	1425	19	1.75(105)	2S2P	1100	1300×2300	2200×2750			1207 [1212]			95			133.5	00.0(494.0)	33.0 (402.3)		23.3(440.0)	43.0(470.3)
100			2.0(120)					1305	895							143.0	78.5 (703.5)	65.5(690.0)	114.5	38.5 (650.5)	61.0(685.5)
101			2.5(150)																		
102			1.0(60)													67.75x2sets	61.0(393.0)	49.0(381.0)		25.0(346.5)	42.5(374.5)
103			1.5(90)				2600×2150	1395	1205	855							66.5 (495.5)	54.0(483.0)	106.5	29.0(447.5)	47.0(476.5)
104			1.75(105)		1000	1800×1750				[865]		1210		1940		135.5					
105			2.0(120)				2650×2150	1435	1215							147.5	80.5 (705.5)	67.0(691.5)	118.5	39.0(650.5)	62.0(685.5)
106 107			2.5(150) 1.0(60)	2PC0									_				6/ E/301 E)	51.5(378.5)	114.5	25.5(341.5)	11 5 (271 E)
107								1245	1255							73.25x2sets	04.0(081.0)	31.3(3/0.3)	114.0	20.0 (041.0)	74.5(3/11.3)
109	1600	21	1.5(90) 1.75(105)	1100	1400×2400	2500×2800			1180		1055	55	1630	30	146.5	69.5 (494.0)	56.5 (481.0)	115.5	29.5(442.5)	49.0(473.5)	
110			2.0(120)							[1190]								<u> </u>		<u> </u>	
111			2.5(150)					1255	1245							158.0	83.0(708.0)	69.5 (695.5)	126.0	39.5(651.0)	63.0 (689.5)
					on the fo					(	):Tra					-					

Note: Above tables shows the dimensions on the following conditions
(1) Single elevator in hoistway (2) Without counterweight safety
Please consult Hitachi or local agent if other specifications are required.

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<sup>\*1 ( ):</sup>Travel distance > 60m

\*2 [ ]:With fire rated door

\*3 ( ):EN81-20/50 regulations

\*4 Rated speed 1.0m/s: Travel distance ≤ 60m

Rated speed 1.5, 1.75m/s: Travel distance ≤ 80m

Rated speed 2.0, 2.5m/s: Travel distance ≤ 120m

\*5 The pit reaction loading differs depending on the specifications and design, please consult Hitachi or local agent.

## **Dimension and reaction loading of hoistway**

## ■Based on Hitachi standard and EN81-20/50 regulations

			Rated		Door OP	Car internal	Hoistway *1			14	natio	n [mı	n]				Pit	reaction loa	ding *3*4*5	[kN]	
No.	Load [kg]	Persons	speed [m/s]	Door type	width W	size A × B	X×Y			L	Cauc	nı fımı	Ш				Car side		Cou	nterweight	side
	[Len]		(m/min)	, jpo	[mm]	[mm]	[mm]	ХЗ	X4 *1	C *2	D	Е	F	RGC	RGW	RC1	RC2	RC3	RW1	RW2	RW3
112			1.0(60)													71.5x2sets	63.5 (390.5)	51.0(377.5)	113.5	25.5(341.5)	44.0(371.0)
113			1.5(90)							1057						72.5x2sets	69.5 (494.0)	56 O(491 O)	115.5	29.5(442.5)	40.0(473.5)
114			1.75(105)	2S2P	1200	1400×2400	2300×2850	1355	945	1257 [1262]		1055	95	1630		145.0	05.5(454.0)	30.0 (401.0)	110.0	23.3 (442.3)	43.0(473.3)
115			2.0(120)													162.0	85.0(710.0)	70 5 (695 5)	129.5	40.0(650.0)	64 5 (687 5)
116	1600	21	2.5(150)													102.0	00.0 (7 10.0)	70.0(000.0)	123.0	40.0 (000.0)	04.0(007.0)
117	1000		1.0(60)													75.75x2sets	66.5 (398.0)	53.0(385.0)		26.5(346.5)	45.5(377.5)
118			1.5(90)				2800×2150	1495	1305	855						70.70.20010	71.5(501.0)	58 0 (487 0)	119.5	30.0(448.0)	50.0(479.5)
119			1.75(105)			2000×1750				[865]		1310	-	2140		151.5	1 110 (00 110)	0010 (10110)		0010 ( 1 1010)	
120			2.0(120)	2PC0	1100		2850×2150	1535	1315							162.0	85.0(710.0)	70.5(695.5)	129.5	40.0(650.0)	64 5 (687 5)
121			2.5(150)																.=010		
122			1.0(60)							830						84.75x2sets	65.5 (397.5)	57.5(389.5)		34.5(353.0)	51.0(383.0)
123		23	1.5(90)			2100×1700	3000×2100	1660	1340	[840]		1385	-	2240			70.5 (499.5)	62.5(492.0)	135.5	39.0(454.0)	55.5(485.0)
124			1.75(105)													169.5					
125			1.0(60)							1307	640				900	84.75x2sets	65.5 (397.5)	57.5(389.5)		34.5 (353.0)	51.0(383.0)
126	1800		1.5(90)	2S2P	1200	1500×2500	2500×2950	1555	945	[1312]		1130	145	1730			70.5(499.5)	62.5(492.0)	133.5	39.0(454.0)	55.5 (485.0)
127		24	1.75(105)													169.5	05 5 (007 5)	57.5 (000.5)		0.4.5 (0.50.0)	E ( 0 (000 0)
128			1.0(60)	0000	,,,,,	0000				880		,,,,,,				84.75x2sets	65.5 (397.5)	57.5(389.5)	1055	34.5 (353.0)	51.0(383.0)
129			1.5(90)	2PC0	1100	2000×1800	2900×2200	1610	1290	[890]		1335	_	2140		169.5	70.5 (499.5)	62.5(492.0)	135.5	39.0 (454.0)	55.5 (485.0)
130			1.75(105) 1.0(60)													169.5	68.0(400.0)	60 0 (200 0)		35.5(353.0)	E0 E (204 E)
131			1.5(90)	2S2P	1300	1500>2700	2500×3150	1505	005	1407		1130	95	1730		89.75x2sets	00.0 (400.0)	00.0(392.0)		35.5(353.0)	32.3(304.3)
133			1.75(105)	2327	1300	1500×2700	2500/3150	1505	990	[1412]		1130	95	1730		179.5	73.0 (502.5)	65.0(494.0)		39.5(454.5)	57.0 (486.5)
134			1.0(60)												-	179.5	68.0 (400.0)	60.0(303.0)	139.5	35.5 (353.0)	52 5 (294 5)
135	2000	26	1.5(90)			2000×2000	2900×2400			980						89.75x2sets	00.0(400.0)	00.0(032.0)		00.0(000.0)	02.0(004.0)
136	2000	20	1.75(105)			2000/2000	2500^2400			[990]						179.5	73.0 (502.5)	65.0(494.0)		39.5(454.5)	57.0(486.5)
137			1.0(60)	2PC0	1100			1610	1290	_		1335	-	2140		175.5	68.5 (400.5)	60.5(392.5)		36.0(353.5)	53.0(385.0)
138			1.5(90)			2000×2100	2900×2500			1030						90.75x2sets	00.0 (400.0)	00.0 (002.0)	141.5	00.0 (000.0)	00.0 (000.0)
139			1.75(105)			2000/2100	2000/2000			[1040]						181.5	73.5 (503.0)	65.5(494.5)	141.0	40.0(454.5)	57.5(487.0)
.55			1.75(100)													101.0	l				

Note: Above tables shows the dimensions on the following conditions
(1) Single elevator in hoistway (2) Without counterweight safety
Please consult Hitachi or local agent if other specifications are required.

## **■**Based on Malaysian regulations

			Rated		Door OP	Car internal	*1 Hoistway				0.71	F	m]					Pit reaction	loading *3	<sup>k4</sup> [kN]	
No.	Load [kg]	Persons	speed [m/s]	Door type	width W	size A × B	X×Y			Lo	catio	n [mr	nj				Car side		Cou	nterweight	side
	[ryj		(m/min)	type	[mm]	[mm]	[mm]	Х3	X4 *1	<b>C</b> *2	D	Е	F	RGC	RGW	RC1	RC2	RC3	RW1	RW2	RW3
1			1.0(60)														225.0	218.0		201.5	215.5
2	615	9	1.5(90)			1150×1400	1950×1800	1050	900			870		1380		74.0	0040	077.0	61.5	050.5	0740
3			1.75(105)							680	530				800		284.0	277.0		259.5	274.0
4			1.0(60)		800					[690]	550				000		227.0	219.5		201.5	216.0
5			1.5(90)		000		2150×1800	1150	1000			970				79.5	286.0	278.5	64.0	259.5	274.5
6	750	11	1.75(105)			1350×1400								1580			200.0	270.5		209.0	274.5
7			2.0(120)				2250×2000	1235	1015		640	1030			900	97.5	689.5	679.0	81.5	651.0	677.0
8			2.5(150)				220072000	1200	1010		010	1000				07.0	000.0	070.0	01.0	001.0	077.0
9			1.0(60)	2PC0						705			_				230.5	222.5		201.5	218.0
10			1.5(90)				2200×1850	1175	1025	[715]	530	1000			800	90.5	289.5	281.0	72.5	259.5	276.5
11			1.75(105)			1500×1450								1640							
12			2.0(120)				2350×2000	1285	1065		640	1060			900	108.5	693.0	682.0	90.0	651.0	679.0
13	885	13	2.5(150)		900																
14			1.0(60)				2350×1750	4045	1035	655	F00	4405			000	04.5	228.0	219.5	70.5	198.5	215.5
15			1.5(90)			1600×1350	(2400×1750)	1315	(1085)	[665]	530	1105		1740	800	91.5	287.0	278.5	73.5	256.5	274.0
16			1.75(105) 2.0(120)			1600×1330								1740							
18			2.5(150)				2450×2000	1335	1115	705 [715]	640	1110			900	110.5	693.5	682.5	92.0	651.0	679.5
19			1.0(60)							[, , , ,							229.5	221.0		198.5	216.0
20			1.5(90)				1900×2550	1115	785		530	845			800	96.0	223.5	221.0	77.0	130.5	210.0
21			1.75(105)	2S2P	1000	1100×2100	(1950×2550)	1110	(835)	1107	000	040	45	1330	000	00.0	288.5	280.0	77.0	256.5	275.0
22			2.0(120)	202.	1000					[1112]				1000							
23			2.5(150)				2000×2550	1155	845		640	905			900	113.0	694.5	683.0	93.5	651.0	680.0
24	955	14	1.0(60)														232.0	223.5		201.5	219.0
25			1.5(90)				2300×1850	1225	1075		530	1050			800	95.0			76.0		
26			1.75(105)			1600×1450				705 [715]							291.0	282.5		259.5	277.5
27			2.0(120)				0.4500000	4005		[715]						1100	2015	200.0	00.5	251.0	200.0
28			2.5(150)	2PC0	000		2450×2000	1335	1115		640	1110		1740	900	113.0	694.5	683.0	93.5	651.0	680.0
29			1.0(60)	2PC0	900								_	1740			229.5	221.5		198.5	216.5
30			1.5(90)				2300×1950	1225	1075	755	530	1050			800	98.0	289.0	280.0	77.5	256.5	275.0
31	1025	15	1.75(105)			1600×1550				755 [765]							209.0	200.0		250.5	275.0
32			2.0(120)				2450×2050	1335	1115			1110				116.0	695.0	683.5	95.0	651.0	680.5
33			2.5(150)				2400/2000	1000	1110							110.0	000.0	000.0	30.0	001.0	
34			1.0(60)														388.0	377.0		347.0	372.0
35			1.5(90)				2100×2750	1210	890	1207						119.0	490.5	479.0	95.5	448.0	474.0
36			1.75(105)	2S2P	1100	1200×2300				[1212]		955	45	1430							
37			2.0(120)				2150×2750	1235	915							127.0	699.0	686.5	103.5	650.5	683.0
38			2.5(150)														007.5	070.5		040.5	074 5
39			1.0(60)				040000400	1005	1105							1170	387.5	376.5	02.5	346.5	371.5
40	1160	17	1.5(90) 1.75(105)			1600×1700	2400×2100	1295	1105	830		1110		1740		117.0	490.0	478.5	93.5	448.0	473.5
41	1160	17	2.0(120)			1600×1700				[840]		1110		1740							
43			2.5(150)				2450×2100	1330	1120		640				900	127.0	699.0	686.5	103.5	650.5	683.0
44			1.0(60)	2PC0	1000								-			117.0	382.0	371.0	94.5	342.0	366.0
45			1.5(90)				2600×2000	1390	1210												
46			1.75(105)			1800×1500			-	730		1210		1940		121.0	486.0	474.5	98.5	443.0	469.0
47			2.0(120)							[740]											
48			2.5(150)				2650×2000	1435	1215							127.0	699.0	686.5	103.5	650.5	683.0
49			1.0(60)														391.0	379.0		347.0	373.5
50			1.5(90)					1290	910							128.5	400.5	401.5	102.5	440.0	475.5
51	1295	19	1.75(105)	2S2P	1100	1300×2300	2200×2750			1207 [1212]		1005	95	1530			493.5	481.5		448.0	475.5
52			2.0(120)					1305		.1616]						138.5	702.5	689.5	112.0	650 5	685.0
53			2.5(150)					1305	095							130.5	102.5	0.800	112.0	650.5	0.000
Note:	Above ta	ahles shi	nws the dim	ensions	on the fo	llowing condi	tions		*1	(	) · Tra	evel dis	tance	> 60r							

Note: Above tables shows the dimensions on the following conditions
(1) Single elevator in hoistway (2) Without counterweight safety
Please consult Hitachi or local agent if other specifications are required.

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<sup>\*1 ( ):</sup>Travel distance > 60m

\*2 [ ]:With fire rated door

\*3 ( ):EN81-20/50 regulations

\*4 Rated speed 1.0m/s: Travel distance ≤ 60m

Rated speed 1.5, 1,75m/s: Travel distance ≤ 80m

Rated speed 2.0, 2,5m/s: Travel distance ≤ 120m

\*5 The pit reaction loading differs depending on the specifications and design, please consult Hitachi or local agent.

<sup>\*1 ( ):</sup>Travel distance > 60m

\*2 [ ]:With fire rated door

\*3 Rated speed 1.0m/s: Travel distance ≤ 60m
Rated speed 1.5 , 1.75m/s: Travel distance ≤ 80m
Rated speed 2.0 , 2.5m/s: Travel distance ≤ 120m

\*4 The pit reaction loading differs depending on the specifications and design, please consult Hitachi or local agent.

## **Dimension and reaction loading of hoistway**

## **■**Based on Malaysian regulations

			Rated	_	Door OP	Car internal	*1 Hoistway			L	ootio	n [mı	m]					Pit reaction	loading *3	<sup>k4</sup> [kN]	
No.	Load [kg]	Persons	speed [m/s]	Door type	width W	size A × B	X×Y			L	Jualio	on Lun	Ш				Car side		Cou	nterweight	side
	[rg]		(m/min)	турс	[mm]	[mm]	[mm]	ХЗ	X4 *1	C *2	D	Е	F	RGC	RGW	RC1	RC2	RC3	RW1	RW2	RW3
54			1.0(60)													20.5.0	392.5	380.5		346.5	374.0
55			1.5(90)				2600×2150	1395	1205							66.5x2sets	405.0	400.5	105.5	440.0	470.0
56			1.75(105)		1000	1800×1750				855		1210		1940		133.0	495.0	482.5		448.0	476.0
57			2.0(120)				2650×2150	1.405	1015							141.0	703.5	690.0	113.5	650.5	685.5
58	1365	20	2.5(150)	2PCO			2030/2130	1433	1213							141.0	703.3	090.0	113.5	030.3	000.0
59	1303	20	1.0(60)	2500									_			66.5x2sets	387.0	375.0		341.5	369.0
60			1.5(90)				2800×2050	1495	1305	755						00.3x236t3	487.5	477.0	105.5	443.0	471.5
61			1.75(105)		1100	2000×1550				755 [765]		1310		2140		133.0	407.5	4/7.0		440.0	4/1.5
62			2.0(120)				2850×2050	1535	1315							141.0	703.5	690.0		650.5	685.5
63			2.5(150)				2000/2000	1000	1010							141.0	700.0	030.0	113.5	000.0	0.000
64			1.0(60)													71.5x2sets	390.5	377.5		341.5	371.0
65			1.5(90)							1257						72.5x2sets	494.0	481.0	115.5	442.5	473.5
66	1500	22	1.75(105)	2S2P	1200	1400×2400	2300×2850	1355	945	[1262]		1055	95	1630		145.0					
67			2.0(120)													154.0	707.5	693.5	124.0	650.5	688.0
68			2.5(150)																		
69			1.0(60)													75.0x2sets	398.0	384.5		347.0	377.5
70			1.5(90)				2800×2150	1495	1305	855							500.5	487.0	118.5	448.0	479.0
71	1565	23	1.75(105)			2000×1750				[865]						150.0					
72			2.0(120)				2850×2150	1535	1315		640				900	160.5	709.5	695.0	129.0	650.5	689.0
73 74			2.5(150) 1.0(60)	2PC0	1100							1310	—	2140			399.5	386.0		347.0	378.0
75			1.5(90)				2800×2200	1/05	1205							77.75x2sets	399.5	300.0	122.5	347.0	3/6.0
76	1635	24	1.75(105)			2000×1800	2000/2200	1495	1303	880						155.5	502.0	488.0	122.5	448.0	480.0
77	1000	27	2.0(120)			2000/1000				[890]						155.5					
78			2.5(150)				2850×2200	1535	1315							165.5	711.0	696.0	132.5	650.5	690.0
79			1.0(60)														396.5	388.5		353.0	382.0
80	1705	25	1.5(90)	2S2P	1200	1500×2500	2500×2950	1555	945	1307		1130	145	1730		83.0x2sets			132.0		
81			1.75(105)							[1312]						166.0	498.5	491.0		454.0	484.0
82			1.0(60)														398.0	390.5		353.0	383.5
83	1835	27	1.5(90)	2PC0	1100	2000×2000	2900×2400	1610	1290	980		1335	_	2140		86.5x2sets			136.5		
84			1.75(105)							[990]						173.0	500.5	492.5		454.5	485.5
85			1.0(60)												1	0000	399.0	391.0		353.0	384.0
86	1905	28	1.5(90)	2S2P	1300	1500×2700	2500×3150	1505	995	1407 [1412]		1130	95	1730		88.0x2sets	50: 5	400.5	137.5	45	400.0
87			1.75(105)							[[1412]						176.0	501.5	493.5		454.5	486.0
88			1.0(60)								1				1	00.05.0.	400.5	392.0		353.5	384.5
89	1975	29	1.5(90)	2PC0	1100	2000×2100	2900×2500	1610	1290	1030		1335	-	2140		90.25x2sets	502.5	494.5	141.0	454.5	486.5
90			1.75(105)							[ 1040]						180.5	502.5	494.5		454.5	400.5

Note: Above tables shows the dimensions on the following conditions
(1) Single elevator in hoistway (2) Without counterweight safety
Please consult Hitachi or local agent if other specifications are required.

- \*1 ( ):Travel distance > 60m

  \*2 [ ]:With fire rated door

  \*3 Rated speed 1.0m/s: Travel distance ≤ 60m
  Rated speed 1.5 , 1.75m/s: Travel distance ≤ 80m
  Rated speed 2.0 , 2.5m/s: Travel distance ≤ 120m

  \*4 The pit reaction loading differs depending on the specifications and design, please consult Hitachi or local agent.

## **B**ased on Hitachi standard for India

		u 011	Rated	3	Door OP	Car internal	*1										Dit	reaction lo	adina *3*4 [	kN1	
No.	Load	Persons	speed	Door	width	size	Hoistway X × Y			Lo	catio	n [mr	n]				Car side	. SuvuVII IU		nterweight	side
	[kg]	55	[m/s] (m/min)	type	W [mm]	A × B [mm]	[mm]	Х3	X4 *1	C *2	D	Е	F	RGC	RGW	RC1	RC2	RC3	RW1	RW2	RW3
1			1.0(60)														34.0	28.0		16.0	25.0
2			1.5(90)			1100×1400	1900×1800	1000	900	680 [690]		845		1330		71.5	37.5	31.0	59.5	18.5	28.0
3	612	9	1.75(105)																		
4			1.0(60)				2050×1700		945	635		٥٥٥		4540		74.0	34.0	27.5	50.0	15.5	25.0
5 6			1.5(90) 1.75(105)			1400×1100	(2100×1700)	1105	(995)	[645]	530	950		1540	800	71.0	37.5	31.0	59.0	18.5	27.5
7			1.0(60)														07.5	30.0		16.5	27.0
8			1.5(90)				2150×1800	1150	1000	680		970				79.5			64.0		
9	748	11	1.75(105)	2PC0	800	1350×1400				[690]			_	1580			41.0	33.5		19.0	29.5
10			2.0(120)				2250×2000	1235	1015	705	640	1030			900	97.0	64.5	54.5	81.5	35.5	52.5
11			2.5(150)							[715]				_							
12			1.0(60)				1900×2400	1010	800		530	845			800	90.5	41.0	33.0	72.5	17.0	28.5
14			1.75(105)				1900/2400	1010	030	980	550	040			000	90.5	44.5	36.0	72.5	19.5	31.5
15			2.0(120)				0050,40400	4400	000	[990]	0.40	005			000	1105	20.0	57.5	20.0	00.0	
16			2.5(150)			1100×2000	2050×2400	1130	920		640	905		1330	900	110.5	69.0	57.5	92.0	36.0	55.0
17			1.0(60)			110012000								1000			41.0	33.0		17.0	28.5
18			1.5(90)	0000			1900×2450	1110	790	1057	530	845	0.5		800	90.5	44.5	36.0	72.5	19.5	31.5
19			1.75(105) 2.0(120)	2S2P						[1062]			95								
21			2.5(150)				2000×2450	1205	795		640	905			900	110.5	69.0	57.5	92.0	36.0	55.0
22	884	13	1.0(60)														41.0	33.0		17.0	28.5
23			1.5(90)				2200×1850	1175	1025	705	530	1000			800	90.5	44.5	36.0	72.5	19.5	31.5
24			1.75(105)			1500×1450				705 [715]				1640			44.5	30.0		19.0	01.0
25			2.0(120)				2350×2000	1285	1065		640	1060			900	108.5	68.0	57.0	90.0	36.0	54.5
26 27			2.5(150) 1.0(60)		900									_			41.0	33.0		17.0	27.0
28			1.5(90)				2350×1750	1315	1035		530	1105			800	91.5			73.5		
29			1.75(105)	2PC0		1600×1350	(2400×1750)		(1085)	[665]			_	1740			44.5	36.5		19.5	32.0
30			2.0(120)				2450×2000	1225	1115	705	640	1110			900	110.5	69.0	57.5	92.0	36.0	55.0
31			2.5(150)				2400/2000	1000	1113	[715]	040	1110			300						
32			1.0(60)				0000,0500	4005	005		500	0.45			000	94.5	42.5	34.0	76.0	17.5	29.5
33			1.5(90) 1.75(105)				2000×2500	1005	995	1030	530	845			800	95.5	46.0	37.5	77.0	20.0	32.5
35			2.0(120)							[1040]											
36			2.5(150)			1100×2100	2150×2500	1130	1020		640	905		1330	900	113.0	69.5	58.5	93.5	36.5	55.0
37			1.0(60)			1100/2100	1000×2550		785					1330		94.5	42.5	34.0	76.0	17.5	29.5
38	0.50		1.5(90)				1900×2550 (1950×2550)	1115	(835)	1107	530	845			800	95.5	46.0	37.5	77.0	20.0	32.5
39 40	952	14	1.75(105) 2.0(120)	2S2P	1000					[1112]			45								
41			2.5(150)				2000×2550	1155	845		640	905			900	113.0	69.5	58.5	93.5	36.5	55.0
42			1.0(60)														42.0	34.0		17.5	29.5
43			1.5(90)				2300×1800	1225	1075	680 [690]	530	1050			800	94.0	45.5	37.0	75.0	20.0	32.5
44			1.75(105)	2PC0		1600×1400							_	1740			40.0	07.0		20.0	02.0
45			2.0(120)				2450×2000	1335	1115	705 [715]	640	1110			900	113.0	69.5	58.5	93.5	36.5	55.0
46			2.5(150) 1.0(60)							[/10]							44.0	35.5		17.5	30.5
48			1.5(90)				1800×2850	1015	785		530	795			800	99.5			79.0		
49			1.75(105)	2S2P	900	1000×2400				1257 [1262]			45	1230			47.5	38.5		20.0	33.5
50			2.0(120)				1900×2850	1105	795		640	855			900	121.5	72.5	60.5	100.5	37.0	57.0
51	1020	15	2.5(150)						. 50		- 10										
52			1.0(60)				2300×1900	1225	1075		520	1050			800	97.5	43.0	35.0	77.0	17.5	30.0
53			1.75(105)	2PC0		1600×1500	2000/1900	1220	10/5	730	J3U	1030	_	1740	000	31.3	46.5	38.0	77.0	20.0	33.0
55			2.0(120)				0450	100-	444-	[740]	0.40	4440			000	101 =	70.5	00.5	100 =	07.0	F7.0
56			2.5(150)				2450×2000	1335	1115		640	1110			900	121.5	72.5	60.5	100.5	37.0	57.0
Note:	^ h o u o +	ablaa ab	ou o tho die		on the fe	llowina condi	tions		- Je	1 (	) . To	avel di	otopo.	> 60							

Note: Above tables shows the dimensions on the following conditions
(1) Single elevator in hoistway (2) Without counterweight safety
Please consult Hitachi or local agent if other specifications are required.

- \*1 ( ) : Travel distance > 60m

  \*2 [ ] : With fire rated door

  \*3 Rated speed 1.0m/s: Travel distance ≤ 60m

  Rated speed 1.5 1,75m/s: Travel distance ≤ 80m

  Rated speed 2.0 , 2.5m/s: Travel distance ≤ 120m

  \*4 The pit reaction loading differs depending on the specifications and design, please consult Hitachi or local agent.

## **Dimension and reaction loading of hoistway**

## **Based on Hitachi standard for India**

			Rated		Door OP	Car internal	*1 Hoistway			L	nostic	n Im-	ml				Pit	reaction lo	ading *3*4 [	kN]	
No.	Load [kg]	Persons	speed [m/s]	Door type	width W	size A × B	X×Y				catio	n [mi	n)				Car side		Cou	nterweight	side
	191		(m/min)	JI.	[mm]	[mm]	[mm]	Х3	X4 *1	C *2	D	E	F	RGC	RGW	RC1	RC2	RC3	RW1	RW2	RW3
57			1.0(60)														55.5	44.5		24.0	39.5
58			1.5(90)				2400×2100	1295	1105	830						117.0	60.5	49.0	93.5	28.0	44.0
59			1.75(105)			1600×1700				[840]		1110		1740							
60			2.0(120)				2450×2100	1330	1120							127.0	74.5	62.0	103.5	37.5	58.0
61	1156	17	2.5(150)	2PC0	1000								-		-	1170	545	440	04.5	00.5	20.0
62 63			1.0(60)				2600×2000	1200	1010							117.0	54.5	44.0	94.5	23.5	39.0
64			1.5(90) 1.75(105)			1800×1500	2000^2000	1390	1210	730		1210		1940		121.0	61.5	50.0	98.5	28.0	44.5
65			2.0(120)			1000×1300				[740]		1210		1340							
66			2.5(150)				2650×2000	1435	1215							127.0	74.5	62.0	103.5	37.5	58.0
67			1.0(60)												1		57.0	45.5		24.5	40.5
68			1.5(90)				2100×2750	1210	890							121.5			97.0		
69			1.75(105)	2S2P		1200×2300				1207		955	45	1430			62.0	50.5		28.0	44.5
70			2.0(120)				0.50.0550			[1212]											T
71	1224	40	2.5(150)		1100		2150×2750	1235	915							135.5	77.0	64.0	110.5	38.0	60.0
72	1224	18	1.0(60)		1100												57.5	46.0		24.5	40.5
73			1.5(90)				2800×1950	1495	1305	680 [690]						123.5	62.5	51.0	98.5	28.5	45.0
74			1.75(105)			2000×1400						1310		2140			02.0	31.0		20.5	40.0
75			2.0(120)				2850×2000	1535	1315	705						135.5	77.0	64.0	110.5	38.0	60.0
76			2.5(150)	2PC0			2000-2000	1000	10.0	[715]			_						110.0		
77			1.0(60)														59.0	47.5		25.0	41.5
78			1.5(90)				2250×2700	1170	1080	1130						128.5	64.0	52.0	102.5	28.5	46.0
79			1.75(105)		1000					[1140]											
80			2.0(120)				2350×2700	1230	1120							138.0	78.0	64.5	112.0	38.0	60.0
82			2.5(150) 1.0(60)			1300×2300						1005	_	1530			59.0	47.5		25.0	41.5
83			1.5(90)					1290	910							128.5	33.0	47.5	102.5	20.0	41.5
84	1292	19	1.75(105)	2S2P			2200×2750	1200	"	1207	640		95		900	120.0	64.0	52.0	102.0	28.5	46.0
85			2.0(120)							[1212]			•••								
86			2.5(150)					1305	895							138.0	78.0	64.5	112.0	38.0	60.0
87			1.0(60)		1100										1		59.0	47.5		25.0	41.5
88			1.5(90)				2800×2000	1495	1305							128.5	040	50.0	102.5	00.5	40.0
89			1.75(105)			2000×1500				730 [740]		1310		2140			64.0	52.0		28.5	46.0
90			2.0(120)				2850×2000	1535	1315							138.0	78.0	64.5	112.0	38.0	60.0
91			2.5(150)				2000/2000	1000	1010							100.0	70.0	04.0	112.0	00.0	00.0
92			1.0(60)													65.5x2sets	60.0	48.0		25.0	42.0
93			1.5(90)				2600×2100	1395	1205	830							65.0	52.5	103.5	29.0	46.5
94			1.75(105)		1000	1800×1700				[840]		1210		1940		131.0					
95			2.0(120)				2650×2100	1435	1215							141.0	78.5	65.5	113.5	38.5	60.5
96 97	1360	20	2.5(150) 1.0(60)												-		60.0	49.0		24.5	42.0
98			1.5(90)				2800×2050	1495	1305							66.25x2sets	60.0	48.0	105.0	24.5	42.0
99			1.75(105)	2PCO	1100	2000×1550		1700		755		1310	_	2140		132.5	65.0	53.5	100.0	28.5	46.0
100			2.0(120)	50						[765]											
101			2.5(150)				2850×2050	1535	1315							141.0	78.5	65.5	113.5	38.5	60.5
102			1.0(60)										1		1	07 6	61.0	49.0		25.0	42.5
103			1.5(90)				2600×2150	1395	1205							67.75x2sets			106.5		
104	1428	21	1.75(105)		1000	1800×1750				855 [865]		1210		1940		135.5	66.5	54.0		29.0	47.0
105			2.0(120)				2650~2150	1/105	1015	[000]						151 5	92.0	60.0	120 5	20.0	63.0
106			2.5(150)				2650×2150	1430	1215							151.5	82.0	68.0	122.5	39.0	63.0
107			1.0(60)													71.5x2sets	63.5	50.5	113.5	25.5	44.0
108			1.5(90)					1245	1255	1180						72.5x2sets	69.5	56.0	115.5	29.5	49.0
109	1496	22	1.75(105)		1100	1400×2400	2500×2800			[1180 [1190]		1055		1630		145.0	30.0	30.0	. 10.0	20.0	10.0
110			2.0(120)					1255	1245							154.0	82.5	68.5	124.0	39.5	63.0
11			2.5(150)																		

Note: Above tables shows the dimensions on the following conditions (1) Single elevator in hoistway (2) Without counterweight safety Please consult Hitachi or local agent if other specifications are required.

## ■Based on Hitachi standard for India

			Rated		Door OP	Car internal	*1 Hoistway				4! .	F	1				Pit	reaction lo	ading *3*4 [I	kN]	
No.	Load [kg]	Persons	speed [m/s]	Door type	width W	size A × B	X×Y			LO	JCallo	n [mi	Ш				Car side		Cour	nterweight	side
	[49]		(m/min)	typo	[mm]	[mm]	[mm]	Х3	X4 *1	C *2	D	Е	F	RGC	RGW	RC1	RC2	RC3	RW1	RW2	RW3
112			1.0(60)													71.5x2sets	63.5	50.5	113.5	25.5	44.0
113			1.5(90)													72.5x2sets	69.5	56.0	115.5	29.5	49.0
114	1496	22	1.75(105)	2S2P	1200	1400×2400	2300×2850	1355	945	1257 [1262]		1055	95	1630		145.0	09.5	56.0	115.5	29.5	49.0
115			2.0(120)							[1202]						154.0	82.5	68.5	124.0	39.5	63.0
116			2.5(150)													154.0	02.5	00.5	124.0	39.3	63.0
117			1.0(60)													75.0x2sets	66.0	52.5		26.0	45.5
118			1.5(90)				2800×2150	1495	1305	055						73.0823613	71.0	57.5	118.5	30.0	50.0
119	1564	23	1.75(105)			2000×1750				855 [865]						150.0	71.0	37.3		30.0	30.0
120			2.0(120)				2850×2150	1535	1315							156.5	83.5	69.5	125.0	39.5	63.5
121			2.5(150)				2000112100	1000	1010			1310		2140		100.0		00.0	120.0		
122			1.0(60)													77.75x2sets	67.5	54.0		26.5	46.5
123			1.5(90)				2800×2200	1495	1305	880							72.5	58.5	122.5	30.5	50.5
124			1.75(105)	2PC0	1100	2000×1800				[890]			-			155.5					
125			2.0(120)				2850×2200	1535	1315							159.5	84.5	70.0		39.5	64.0
126	1632	24	2.5(150)								640				900						
127			1.0(60)													79.5x2sets	69.0	55.0		26.5	47.0
128			1.5(90)				2900×2100	1540	1360	830							74.0	59.5	126.5	30.5	51.5
129			1.75(105)			2100×1700				[840]		1360		2240		159.0					
130			2.0(120)				2950×2100	1585	1365							159.5	84.5	70.0		39.5	64.0
131			2.5(150)														05.0	F7.F		04.5	50.5
132	1768	26	1.0(60)		1200	1500,0500	2500×2950	1,555	045	1307			145			84.25x2sets	65.0	57.5	133.0	34.5	50.5
134	1/00	20	1.75(105)		1200	1500×2500	2500×2950	1000	945	[1312]			145			168.5	70.0	62.0	133.0	38.5	55.0
135			1.0(60)	2S2P								1130		1730		108.5	67.0	59.0		35.5	52.0
136			1.5(90)		1300	1500×2700	2500×3150	1505	005	1407			95			88.0x2sets	07.0	39.0		33.3	52.0
137			1.75(105)		1300	1300^2/00	2300/3130	1305	333	[1412]			90			176.0	72.0	64.0		39.5	56.5
138	1904	28	1.0(60)													170.0	67.0	59.0	137.5	35.5	52.0
139			1.5(90)	2PC0	1100	2000×2000	2900×2400	1610	1290	980		1335	_	2140		88.0x2sets	07.0	33.0		00.0	JZ.U
140			1.75(105)	21 00	1100	2000/2000	2000/2700	1010	1230	[990]		1000		1-1-0		176.0	72.0	64.0		39.5	56.5
140			1.73(103)		41 6-						) . T.					170.0					

Note: Above tables shows the dimensions on the following conditions
(1) Single elevator in hoistway (2) Without counterweight safety
Please consult Hitachi or local agent if other specifications are required.

OUG-ON1 | 7 OUG-ON1 8

<sup>\*1 ( ):</sup> Travel distance > 60m
\*2 [ ]: With fire rated door
\*3 Rated speed 1.0m/s: Travel distance ≤ 60m
Rated speed 1.5 . 1.75m/s: Travel distance ≤ 80m
Rated speed 2.0 .2.5m/s: Travel distance ≤ 120m
\*4 The pit reaction loading differs depending on the specifications and design, please consult Hitachi or local agent.

<sup>\*1 ( ):</sup> Travel distance > 60m
\*2 [ ]: With fire rated door
\*3 Rated speed 1.0m/s: Travel distance ≤ 60m
Rated speed 1.5, 1.75m/s: Travel distance ≤ 80m
Rated speed 2.0, 2.5m/s: Travel distance ≤ 120m
\*4 The pit reaction loading differs depending on the specifications and design, please consult Hitachi or local agent.

## **Dimension and reaction loading of hoistway**

## **■**Based on SS550

Load   [kg]	8 8 111	\$\frac{\text{speed}}{\text{[m/s]}}\$ 1.0(60) 1.5(90) 1.75(105) 1.0(60) 1.5(90) 1.75(105) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 2.0(120) 2.5(150)	Door type	width W [mm]		Hoistway X x Y [mm] 1950×1850 2150×1750 2200×1850 2300×2050	1035	1000	680 [690] 635 [645]	D 530	845 950	n]	1330	RGW	<b>RC1</b>	RC2 35.0 38.5	RC3 28.0 31.5	<b>Cou</b> l <b>RW1</b> 59.0	16.0 18.5	8ide RW3 25.5 28.5
750		(m/min) 1.0(60) 1.5(90) 1.75(105) 1.0(60) 1.5(90) 1.75(105) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 1.5(90) 1.75(105) 2.0(120)		[mm]	[mm] 1100×1400 1400×1100	1950×1850 2150×1750 2200×1850	1035	915	680 [690] 635 [645]		845	F	1330	RGW		35.0	28.0		16.0	25.5
750		1.5(90) 1.75(105) 1.0(60) 1.5(90) 1.75(105) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120)	2PC0	800	1400×1100	2150×1750 2200×1850	1150	1000	[690] 635 [645]	530					71.5			59.0		
750		1.75(105) 1.0(60) 1.5(90) 1.75(105) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120)	2PC0	800	1400×1100	2150×1750 2200×1850	1150	1000	[690] 635 [645]	530					71.5	38.5	31.5	59.0	18.5	28.5
750		1.0(60) 1.5(90) 1.75(105) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120)	2PC0	800		2200×1850			[645]	530	950		1540		71.5		0.10	59.0	10.0	20.0
750		1.5(90) 1.75(105) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120)	2PCO			2200×1850			[645]	530	950		1540					1		
	11	1.75(105) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120)	2PC0			2200×1850			[645]	530	950					35.0	28.0		16.0	25.5
	11	1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120)	2PC0		1350×1400		1175	1025	680			1	1540	800		38.5	31.5		18.5	28.5
	11	1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120)	2PC0		1350×1400		1175	1025	680							07.0	20.0		405	00.5
	11	1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120)	2PC0		1350×1400		1173	1023			970				78.0	37.0	30.0	63.0	16.5	26.5
		2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120)	2PCO			2300×2050			[690]		370		1580		70.0	40.5	33.0	00.0	19.0	29.5
885		2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120)	2PCO			2300×2050														
885		1.5(90) 1.75(105) 2.0(120)				I	1260	1040		640	1030	_		900	101.0	66.0	55.5	85.5	35.5	53.0
885		1.75(105) 2.0(120)														41.0	33.0		17.0	28.5
885		2.0(120)				2250×1900	1200	1050	705 [715]	530	1000			800	90.5	445	00.0	72.5	40.5	04.5
885					1500×1450				[713]				1640			44.5	36.0		19.5	31.5
885		2.5(150)				2400×2050	1310	1090		640	1060			900	108.5	68.0	57.0	90.0	36.0	54.5
						2400/2000	1010	1000		040	1000			300	100.0	00.0	57.0	30.0	00.0	54.5
		1.0(60)							655							38.0	33.5		21.0	28.5
		1.5(90)				2450×1800	1355	1095	[665]	530	1105			800	91.5	41.0	36.5	73.5	24.0	31.5
		1.75(105)		900	1600×1350								1740							
		2.0(120) 2.5(150)				2500×2050	1360	1140	705 [715]	640	1110			900	108.5	68.0	57.0	90.0	36.0	54.5
- 1	13	1.0(60)							[710]							41.0	33.0		17.0	29.0
		1.5(90)				1950×2500	1135	815		530	845			800	91.0	41.0	33.0	73.0	17.0	29.0
		1.75(105)	2S2P		1100×2000	1000/12000	1100	010	1057	000	040	95	1330		01.0	44.5	36.5	70.0	20.0	32.0
		2.0(120)							[1062]											
		2.5(150)				2050×2500	1230	820		640	905			900	111.0	69.0	58.0	92.5	36.0	55.0
900		1.0(60)														41.5	33.5		17.0	29.0
		1.5(90)				2350×1850	1250	1100		530	1050			800	92.0	45.0	26.5	74.0	20.0	20.0
		1.75(105)	2PC0		1600×1400				[000]			-	1740			45.0	30.3		20.0	32.0
		2.0(120)				2500×2050	1360	1140	705	640	1110			900	111.0	69.0	58.0	92.5	36.0	55.0
		2.5(150)				2000/2000	1000	1140	[715]	040	1110			300	111.0	00.0	30.0	52.0	00.0	55.0
		1.0(60)														42.0	33.5		17.5	29.5
							1140	860	1107	530	845			800	93.0	45.5	37.0	75.0	20.0	32.0
950	14		2S2P	1000	1100×2100				[1112]			45	1330							
						2050×2600	1180	870		640	905			900	113.0	69.5	58.5	93.5	36.5	55.0
																44.0	25.5		17.5	30.5
						2350×2000	1250	1100		530	1050			800	99.5	44.0	33.3	70.0	17.5	30.5
1020	15		2PCO	900	1600×1550		1200	1100	755	000	1000	_	1740		00.0	47.5	38.5	75.0	20.0	33.5
		2.5(150)				2500×2100	1360	1140			1110				115.5	70.5	59.0	95.0	36.5	55.5
		1.0(60)														56.0	45.0		24.0	40.0
		1.5(90)				2150×2800	1235	915							118.5	61.0	40.5	95.5	20.0	44.5
		1.75(105)	2S2P	1100	1200×2300						955	45	1430			61.0	49.5		20.0	44.5
		2.0(120)				2200×2800	1260	940	,						126.5	74.0	62.0	103.5	37.5	58.0
		2.5(150)				LEGO-LOGO	1200	010							120.0		OL.O	100.0	07.0	
		1.0(60)														55.5	44.5		24.0	39.5
							1320	1130	830	640			,	900	116.5	60.5	49.0	93.5	28.0	44.0
1150	17				1600×1700				[840]		1110		1740							
						2500×2150	1355	1145							126.5	74.0	62.0	103.5	37.5	58.0
			2PC0	1000								-				EE O	440		240	20 5
						2650×2050	1420	1230							1160	05.0	44.0	92.5	24.0	39.5
					1800×1500		1420	1230	730		1210		1940		110.0	60.0	49.0	32.3	28.0	43.5
					1000×1000				[740]		1210		1340							
						2700×2050	1460	1240							126.5	74.0	62.0	103.5	37.5	58.0
	950	1020 15	1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150)	1.5(90) 1.75(105) 2.0(120) 2.5(150)  950  14  1.75(105) 2.0(120) 2.5(150)  1.75(105) 2.0(120) 2.5(150)  1.5(90) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.75(105) 2.0(120) 2.5(150) 1.75(105) 2.0(120) 2.5(150) 1.75(105) 2.0(120) 2.5(150) 1.15(90) 1.5(90)	1.5(90) 1.75(105) 2.0(120) 2.5(150)  950  14  1.75(105) 2.0(120) 2.5(150)  1.75(105) 2.0(120) 2.5(150)  1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150)  1.75(105) 2.0(120) 2.5(150)  1.75(105) 2.0(120) 2.5(150) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.5(150) 1.0(60) 1.5(90) 1.75(105) 2.0(120) 2.0(120) 2.0(120)	1.5(90) 1.75(105) 2.0(120) 2.5(150)  950	1.5(90)	1.5(90)   1.75(105)   2PC0   1600×1400   2350×1850   1250	1.5(90)   1.75(105)   2.0(120)   2.5(150)   1.0(60)   1.5(90)	1.5(90)   1.75(105)   2PC0   1600×1400   2350×1850   1250   1100   680   690    1.75(105)   2.5(150)   2.5(1	1.5(90)   1.75(105)   2.0(120)   2.5(150)   1.0(60)   1.5(90)   2.5(150)   1.0(60)   1.5(90)   1.5(90)   2.5(150)   1.0(60)   1.5(90)   1.5(90)   2.5(150)   1.75(105)   2.0(120)   2.5(150)   1.5(90)   1.5	1.5(90)   1.75(105)   2PC0   1600×1400   2350×1850   1250   1100   680   690   530   1050	1.5(90)   1.75(105)   2.0(120)   2.5(150)   2.0(120)   2.5(150)   2.0(120)   2.5(150)   2.0(120)   2.5(150)   2.0(120)   2.0(120)   2.5(150)   2.0(120)	1.5(90)   1.75(105)   2PC0   1600×1400   2350×1850   1250   1100   680   680   680   530   1050   -     1740   1740   175(105)   2.5(150)   2	1.5(90)   1.75(105)   2.0(120)   2.5(150)   2.0(120)	1.5(90)   1.75(105)   2PCO   1600×1400   2350×1850   1250   1100   680   690  530   1050     1740   800   92.0	1.5(90)   1.75(105)   2PCO   1600×1400   2350×1850   1250   1100   690   690]   530   1050	1.5(90)   1.75(105)   2.5(150)	1.5(90)   1.75(105)   2.0(120)   2.5(150)   2.0(120)   2.5(150)   2.5(150)   2.0(120)   2.0(120)	1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.5   1.0

Note: Above tables shows the dimensions on the following conditions
(1) Single elevator in hoistway (2) Without counterweight safety
Please consult Hitachi or local agent if other specifications are required.

## Based on SS550

	les l		Rated	D	Door OP	Car internal	Hoistway *1			Le	catio	n (mı	n]				Pit	reaction lo	ading *3*4 [		
No.	Load [kg]	Persons	speed [m/s]	Door type	width W	size A × B	X×Y				cauo	ıı [ıııı	'']				Car side		Cou	nterweight	side
	1-51		(m/min)	31.	[mm]	[mm]	[mm]	Х3	<b>X4</b> *1	C *2	D	E	F	RGC	RGW	RC1	RC2	RC3	RW1	RW2	RW3
57			1.0(60)							600							57.0	46.0		24.5	40.5
58			1.5(90)				2850×2000	1520	1330	680 [690]						122.5	62.5	50.5	98.0	28.5	45.0
59	1200	17	1.75(105)	2PC0		2000×1400						1310	_	2140			02.0	00.0		20.0	40.0
60			2.0(120)				2900×2050	1560	1340	705						134.5	77.0	63.5	110.0	38.0	59.5
61			2.5(150)		1100					[715]											
62			1.0(60)														59.0	47.5		25.0	41.5
63			1.5(90)					1315	935	1207						128.5	64.0	52.0	102.5	28.5	46.0
64	1290	19	1.75(105)	2S2P		1300×2300	2250×2800			[1212]		1005	95	1530							
65			2.0(120)					1330	920							138.0	78.0	64.5	112.0	38.0	60.0
66			2.5(150)													GG DEvDooto	60 E	40 E		25.0	42.5
67 68			1.0(60)				2650×2200	1 420	1000							66.25x2sets	60.5	48.5	105.0	25.0	42.5
69			1.75(105)		1000	1800×1750	2030.×2200	1420	1230	855		1210		1940		132.5	65.5	53.0	105.0	29.0	46.5
70			2.0(120)		1000	1000×1750				[865]		1210		1940							
71			2.5(150)				2700×2200	1460	1240							140.5	78.5	65.0	113.0	38.5	60.5
72	1350	20	1.0(60)	2PC0									-			66.25x2sets	60.5	48.5		25.0	42.5
73			1.5(90)				2850×2100	1520	1330							00120720010	00.0	1010	105.0		12.0
74			1.75(105)		1100	2000×1550	2000-2100	1020		755		1310		2140		132.5	65.5	53.0	10010	29.0	46.5
75			2.0(120)							[765]											
76			2.5(150)				2900×2100	1560	1340							140.5	78.5	65.0	113.0	38.5	60.5
77			1.0(60)													72.0x2sets	64.0	51.5		26.0	44.5
78			1.5(90)					1365	985							4440	00.0	50.0	114.0	00.5	40.5
79	1500	22	1.75(105)	2S2P	1200	1400×2400	2350×2900			1257 [1262]		1055	95	1630		144.0	69.0	56.0		29.5	48.5
80			2.0(120)					1380	070	[1202]						154.0	83.0	68.5	124.0	39.5	63.0
81			2.5(150)					1300	970							134.0	03.0	00.5	124.0	39.3	03.0
82			1.0(60)								640				900	75.0x2sets	66.0	53.0		26.0	45.5
83			1.5(90)				2850×2200	1520	1330	855	040				300	150.0	71.0	57.5	118.5	30.0	50.0
84	1565	23	1.75(105)			2000×1750				[865]						100.0	71.0	07.0		00.0	00.0
85			2.0(120)				2900×2200	1560	1340							156.5	83.5	69.5	125.0	39.5	63.5
86			2.5(150)									1310		2140							
87			1.0(60)													77.75x2sets	67.5	54.0		26.5	46.5
88			1.5(90)	0000	4400	0000014000	2850×2250	1520	1330	880						155.5	72.5	58.5	122.5	30.5	50.5
90			1.75(105)	2PC0	1100	2000×1800				[890]			_								
91			2.0(120) 2.5(150)				2900×2250	1560	1340							161.0	85.0	70.5	128.5	39.5	64.5
92	1630	24	1.0(60)													76.5x2sets	66.5	53.0		26.5	46.0
93			1.5(90)				2950×2150	1570	1380							7 0.0X23Ct3	00.0	50.0	120.5	20.0	40.0
94			1.75(105)			2100×1700	2000-12100	1070	1000	830		1360		2240		153.0	71.5	58.0	120.0	30.5	50.0
95			2.0(120)							[840]											
96			2.5(150)				3000×2150	1610	1390							159.0	84.0	69.5	126.5	39.5	64.0
97			1.0(60)													83.0x2sets	64.5	56.5		34.5	50.5
98	1700	25	1.5(90)	2S2P	1200	1500×2500	2550×3000	1580	970	1307 [1312]		1130	145	1730		1000	00.0	04.5	131.5	20.5	545
99			1.75(105)							[1012]						166.0	69.0	61.5		38.5	54.5
100			1.0(60)													86.5x2sets	66.5	58.5		35.0	51.5
101	1835	27	1.5(90)	2PC0	1100	2000×2000	2950×2450	1635	1315	980 [990]		1335	_	2140		173.0	71.0	63.0	136.5	39.0	56.0
102			1.75(105)													170.0	71.0	00.0		00.0	30.0
103			1.0(60)							1407						88.0x2sets	67.0	59.0		35.5	52.0
104	1905	28	1.5(90)	2S2P	1300	1500×2700	2550×3200	1530	1020	[1412]		1130	95	1730		176.0	72.0	64.0	137.5	39.5	56.5
105			1.75(105)																		
106			1.0(60)							1030						90.75x2sets	68.5	60.5		36.0	53.0
107	2000	29	1.5(90) 1.75(105)	2PC0	1100	2000×2100	2950×2550	1635	1315	[1040]		1335	_	2140		181.5	73.5	65.5	141.5	40.0	57.5
108																					

Above tables shows the dimensions on the following conditions
 (1) Single elevator in hoistway (2) Without counterweight safety
 Please consult Hitachi or local agent if other specifications are required.

<sup>\*1 ( ):</sup> Travel distance > 60m

\*2 [ ]: With fire rated door

\*3 Rated speed 1.0m/s: Travel distance ≤ 60m

Rated speed 1.5 1.75m/s: Travel distance ≤ 80m

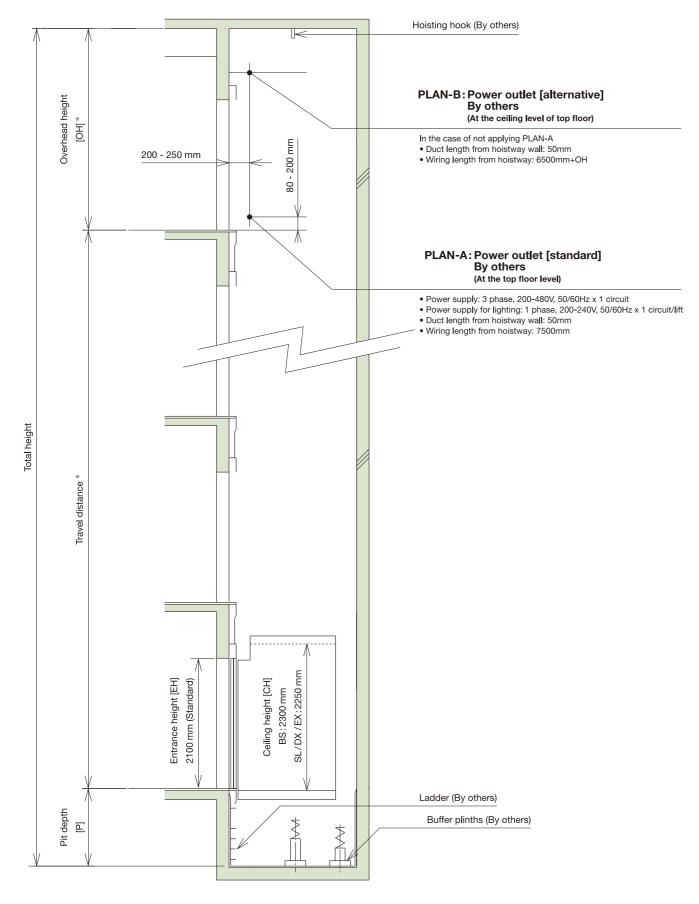
Rated speed 2.0 . 2.5m/s: Travel distance ≤ 120m

\*4 The pit reaction loading differs depending on the specifications and design, please consult Hitachi or local agent.

<sup>\*1 ( ):</sup> Travel distance > 60m
\*2 [ ]: With fire rated door
\*3 Rated speed 1.0m/s: Travel distance ≤ 60m
Rated speed 1.5, 1.75m/s: Travel distance ≤ 80m
Rated speed 2.0, 2.5m/s: Travel distance ≤ 120m
\*4 The pit reaction loading differs depending on the specifications and design, please consult Hitachi or local agent.

## **Overhead Height and Pit Depth**

## **Hoistway section**



#### st If total number of floors is 2, please consult Hitachi or local agent about minimum travel distance and overhead height.

## **■**Dimensions for overhead height, pit depth and other specifications

Standard overhead height: OH \*1 \*2 \*3 [mm]

No.	Rated speed [m/s]		Hitachi standard Hitachi standard for India			EN81-20/50			Malaysian regulations	
	(m/min)	Load ≤ 1050kg	Load ≥ 1150kg	Load > 1600kg	Load ≤ 1050kg	Load ≥ 1150kg	Load > 1600kg	Load ≤ 1050kg	Load ≥ 1150kg	Load > 1635kg
1	1.0(60)	3750	4150	4300	4150	4250	4300	4200	4300	4350
2	1.5(90)	(3870)	(4270)	(4420)	(4270)	(4370)	(4420)	(4320)	(4420)	(4470)
3	1.75(105)	4050 (4170)	4350 (4470)	4350(4470)	4350(4470)	4350 (4470)	4350 (4470)	4400 (4520)	4400 (4520)	4400 (4520)
4	2.0(120)	4600 (4600)	4600 (4600)		4600 (4600)	4600 (4600)		4650 (4650)	4650 (4650)	
5	2.5(150)	4700 (4700)	4700 (4700)	_	4700 (4700)	4700 (4700)	_	4750 (4750)	4750 (4750)	_

No.	Rated speed [m/s] (m/min)	Load ≤ 1050kg	SS550 Load ≥ 1150kg	Load > 1630kg
1	1.0(60)	3950(4070)	4150(4270)	4300 (4420)
2	1.5(90)	4150(4270)	4400 (4520)	4400(4520)
3	1.75(105)	4300 (4420)	4500 (4620)	4500(4620)
4	2.0(120)	5500 (5620)	5500 (5620)	
5	2.5(150)	5650 (5770)	5650(5770)	_

#### Minimum pit depth : P \*4 [mm]

No.	Rated speed [m/s]		Hitachi standard Hitachi standard for India EN81-20/50			Malaysian regulations			\$\$550	
	(m/min)	Load ≤ 1050kg	Load ≥ 1150kg	Load > 1600kg	Load ≤ 1050kg	Load ≥ 1150kg	Load > 1635kg	Load ≤ 1050kg	Load ≥ 1150kg	Load > 1630kg
1	1.0(60)	1350	1600	1650	1500	1750	1750	1500	1750	1900
2	1.5(90)	1350	1600	1650	1500	1750	1750	1600	1900	2050
3	1.75(105)	1450	1700	1800	1600	1850	1900	1650	2100	2250
4	2.0(120)	2000	2300	_	2050	2350	_	2050 (2000)	2300	_
5	2.5(150)	2050	2350	_	2100	2400	_	2200 (2050)	2350	_

#### Others

No.	Rated speed [m/s] (m/min)	Maximum number of stops	Maximum travel distance [m]
1	1.0(60)	24	60
2	1.5(90)	32	80
3	1.75(105)	32	80
4	2.0(120)	36	120
5	2.5(150)	36	120

Note: Above tables shows the dimensions based on standard specifications.
Please consult Hitachi or local agent if other specifications are required.

## ■Rated Speed 1.75m/s or less

\*1 ( ):SL/DX/EX series ceiling

\*1 Travel distance < 30m
30m < Travel distance < 60m : Above overhead height + 50mm
60m < Travel distance < 80m : Above overhead height + 100mm
\*3 Overhead height will be increased accordingly if either EH or CH increases.

LOAD ≤ 1050kg 45m < Travel distance ≤ 60m : Above pit depth + 50mm 60m < Travel distance : Above pit depth + 200mm LOAD ≥ 1150kg 45m < Travel distance : Above pit depth + 50mm

#### ■Rated Speed 2.0m/s or 2.5m/s

\*1 ( ):SL/DX/EX series ceiling \*2  $30m \le Travel distance \le 45m$ 

45m < Travel distance ≤ 80m : Above overhead height + 50mm 80m < Travel distance ≤ 120m : Above overhead height + 100mm

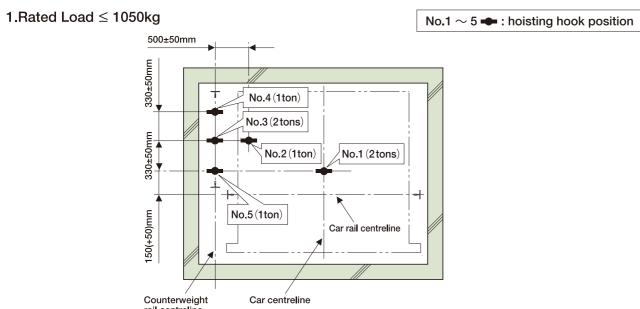
\*3 Overhead height will be increased accordingly if either EH or CH increases. \*4 For SS550, ( ): Travel distance ≤ 60m

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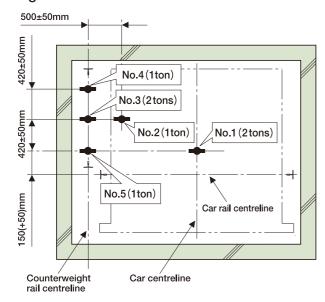
## **Location of hoisting hook and hoisting beam**

If the hoistway is made of reinforced concrete, hoisting hooks (installed by other contractors) are required at the top of the hoistway. If the hoistway is a steel structure, hoisting beams (installed by other contractors) are required at the top of the hoistway. The details of the hoisting hook and hoisting beam mounting position are as follows:

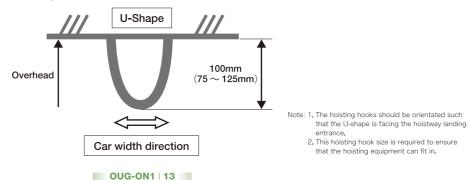
## 1 Hoisting hooks



#### 2.Rated Load > 1050kg



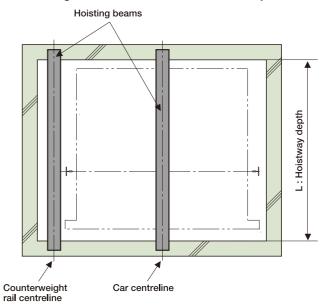
## 3. Orientation and size of Hoisting Hooks



## 2 Hoisting beams

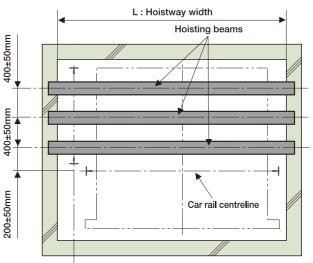
1. Hoisting beams layout (Standard)

## Hoisting beams in the direction of car depth

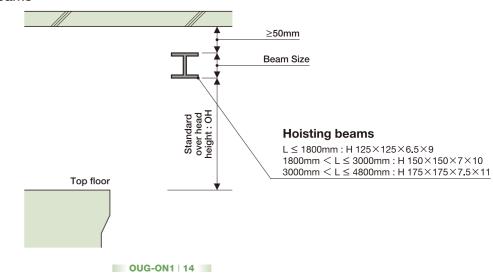


## 2. Hoisting beams layout (Alternative)

## Hoisting beams in the direction of car width



## 3. Height of Hoisting beams



# **Electrical information**

## Required capacity of circuit breaker, transformer & starting power at building side

## **■**Electrical Data

No.	Load	Rated speed	Motor capacity [kW]	Supply voltage [V]	Breaker capacity [A]			Transformer capacity [kVA]			Starting	Lead	in wire for driv	e [mm²]	Earth wire	Calorific value
NO.	[kg]	[m/s] (m/min)			1 unit	2 units	3 units	1 unit	2 units	3 units	power [kVA]	1 unit	2 units	3 units	[mm²]	[kcal/hr]
1				220-230	100	125	150					22.0	38	60	3.5	
2		1.0(60)	3.9	380-415	20	30	30	5	9	12	15	5.5	14	14	2.0	830
3				440-480	50	75	100						8			
4	451 ~ 630			220-230	100	125	150					22.0	60	60	3.5	
5		1.5(90)	5.8	380-415	30	30	40	6	11	15	20	8.0	14	22	2.0	1250
6				440-480	50	75	100					5.5		14		
7		4.75/405)	6.8	220-230	100	125	150	7	12	17	23	38.0	60	100 3.5	3.5	1460
9		1.75(105)		380-415 440-480	30 50	40 75	50 100					8.0	8.0 14	22 14	2.0	1460
10				220-230	100	125	150		-			22.0	38	60	3.5	
11		1.0(60)	4.6	380-415	20	30	40	5	9	12	16	22.0	14	00	3.3	990
12		110 (00)		440-480	50	75	100					5.5	8	14	2.0	
13				220-230	100	125	150	7	12	17		38.0	60	100	3.5	
14	631 ~ 750	1.5(90)	6.9	380-415	30	40	50	6	11	15	23			22		1490
15				440-480	50	75	100					8.0	14	14	2.0	
16			8.1	220-230	100	125	150	7	1,0	17		38.0	60 22	100	3.5	
17		1.75(105)		380-415	40	40	50	] ′	12	17	26	14.0		22		1730
18				440-480	50	75	100					8.0	14	22		
19		2.0(120)	11.0	220-230	175	200	250					60.0	150	150(114m)*1	5.5	
20				380-415	40	50	75	14	26	36	44	22.0	38	60 38	3.5	1980
21	748 ~ 750			440-480	100	100	150					14.0	22			
22		2.5(150)	13.0	220-230	175	200	250	16	30			100.0	150(138m)*1	150 (98m)*1	5.5	
23				380-415	50	60	100			41	50	22.0		60		2470
24				440-480	100	100	150					14.0	38	38	3.5	
25	751 ~ 900	1.0/00)	5.6 8.3 9.7	220-230	100	125	150		<b>.</b>	15	40	22.0		60	2.0	1100
26		1.0(60)		380-415	30	30	40	6	11		19	8.0	14	22		1780
27				440-480 220-230	50	75 125	100	0	14			5.5	60	14		
28		1.5(90)		380-415	100 40	40	150 50	7	12	19	17 27 19 24	38.0 14.0	60	38	3.5	
30		1.5(90)		440-480	50	75	100	8	14	19 24		8.0	14		3.5	
31		1.75(105)		220-230	100	125	150	10	17			38.0	100	150	5.5	
32				380-415	40	40	60	9	16			14.0	22	38	3.5	
33				440-480	50	75	100	10	17			8.0	14	22		
34			12.0	220-230	175	200	250			39	47	100.0	150(148m)*1	150(106m)*1	5.5	
35		2.0(120)		380-415	50	60	75	15	28			22.0		60		2380
36				440-480	100	100	150					14.0	38	38	3.5	
37				220-230	175	200	250					100.0	150(121m)*1	150(86m)*1	5.5 3.5	2970
38		2.5(150)	15.0	380-415	50	75	100	18	33	46	57	22.0	60	- 60		
39				440-480	100	100	150					22.0	38	00		
40				220-230	100	125	130	7	12			38.0	60	100		
41		1.0(60)	6.5	380-415	30	40	40			17	22	8.0	14	22	2.0	1390
42				440-480	50	75	100			<u> </u>		5.5		14		
43				220-230	100	125	150	8	16	22		38.0	100	150	5.5	2000
44		1.5(90)	9.7	380-415	40	40	60		14	19	30	14.0	22	38	3.5	2080
45				440-480	50	75	100	9	16	22		8.0	14	22		
46	901 ~ 1050	4.75/405)	44.7	220-230	100	125	150	40		24		60.0	100	150	5.5	2430
47		1.75(105)	11.7	380-415 440-480	40	50 75	75	10			36	14.0	38 38	- 38	3.5	
48				220-230	50	200	100 250		30	41	50	100.0	22 150(138m)*1	150(98m)*1	5.5	2770
49 50		2.0(120)	13.0	380-415	175 50	60	100	16				22.0	150(15611)	60	5.5	
51		2.0(120)		440-480	100	100	150	10				14.0	38	38	3.5	2110
52				220-230	175	200	250					100.0	150(108m)*1	150(77m)*1		
53		2.5(150)	17.0	380-415	60	75	100	20	37	51	64	38.0	60	100	5.5	3460
54		- 3,.33,		440-480		100		-7	-	•		22.0	38	60	1	
55				220-230	100	125	150					38.0	60	100		
56		1.0(60)	7.1	380-415	40	40	50	7	12	17	23				3.5	1520
57	1051		, , , , ,	440-480	50	75	100			"		8.0	14	22	2.0	
58	1051 ~ 1150			220-230	100	125	150	10	17	24		60.0	100	150		
59		1.5(90)	11.0	380-415	40	50	75	9	16	22	34	1//0		38		2280
		.,		440-480	50	75	100	10	17	24	1 1	14.0	22	22 3.5	1 3.5	

Note: Maximum length of lead-in wire is 150m, maximum lead-in wire size is 150mm².

## **■**Electrical Data

No.	Load [kg]	Rated speed [m/s] (m/min)	Motor capacity [kW]	Supply voltage [V]	Breaker capacity [A]			Transformer capacity [kVA]			Starting	Lead-in wire for drive [mm²]			Earth wire	Calorific value
					1 unit	2 units	3 units	1 unit	2 units	3 units	power [kVA]	1 unit	2 units	3 units	[mm²]	[kcal/hr]
61	1			220-230	100	125	150	11	19			60	100	150(146m)*1	5.5	
62		1.75(105)	13	380-415	50	60	75			26	40	14	38	38	3.5	2660
63				440-480		75	100					1-7	22		0.0	
64				220-230	175	200	250					100	150(121m)*1	150(86m)*1	5.5	
65	1051 ~ 1150	2.0(120)	15	380-415	50	75	100	18	33	46	57	22	60	60	3.5	3030
66				440-480	100	100	150						38			
67			18	220-230	175	200	250	21	39	54	68	150	150(102m)*1	150(73m)*1	5.5	
68		2.5(150)		380-415	60	75	125					38	60	100		3790
69				440-480	100	100	150					22	38	60		
70		l	8.3	220-230		125		50 7	14	19		38	60	100	3.5	1780
71		1.0(60)		380-415	40	40			12	17	27	14	22	38		
72				440-480	50	75	100	8	14	19		8	14	22		
73		4.5(00)	40	220-230	100	125	150		19		40	60	100	150(146m)*1	5.5	0070
74		1.5(90)	13	380-415	50	60	75	11		26	40	14	38	38	3.5	2670
75 76				440-480 220-230	100	75 125	100 150					60	22 150	150(128m)*1		
77	1151 ~ 1350	1.75(105)	15	380-415	100	60	150	12 20 25 24	21 37 46	29	45	22		60	5.5 - 3.5	3120
78	1151 ~ 1550	1.75(105)	15	440-480	50	75	100			29	45	14	38	38		3120
79				220-230	175	200	250					100	150(108m)*1			
80		2.0(120)	17	380-415	60	75	100			51	64	38	60	150(77m)*1 100	5.5	3560 4450
81		2.5(150)		440-480	100	100	150			51	64	22	38	60	3.5	
82				220-230	175	200	250			64		150	150(88m)*1	150(63m)*1		
83				380-415	60	200	125		44	62	78	38	130 (0011)	130(0311)		
84		2.3(130)	21	440-480	00	100	125	25	46	64	- '	22	60	100	5.5	
85				220-230	100	125	150	9	16	22	31	38	100	150	1	
86		1.0(60)	10	380-415	40	50	60					14	22	38	3.5	2160
87		110 (00)		440-480	50	75	100					8		22		2.00
88			5(90) 15	220-230	100	125	150	12	21	29	45	60	150	150(128m)*1	5.5	
89		1.5(90)		380-415		60						22	38	60		3230
90				440-480	50	75						14	22	38	3.5	
91		1.75(105)	18	220-230	100	125	150	15 14 15	26	36		100	150	150(109m)*1	5.5	
92	1351 ~ 1635			380-415	60				24	33	53	22	60	60		3770
93				440-480	50	75	100		26	36		14	38	38	3.5	
94		2.0(120)	20	220-230	175	200	250	25 24 25	46	64	78	150	150(88m)*1	150(63m)*1	5.5	
95				380-415	60	400	125		44	62		38		60 100		4310
96				440-480	100	100	150		46	64		22	60			
97		2.5(150)	25	220-230	175	200	250	30	55	77	95	150(131m)*1	150(72m)*1 100	*2	8.0	5390
98	:			380-415	75	125	150					00		150		
99				440-480	100	100	150					38	60	100	5.5	
100				220-230	175	200	250	10	17	24	38	60	150	144(63m)*1	1	
101		1.0(60)	12	380-415	50	50	75					1.4	38 22	20	3.5	2380
102				440-480	100	100	150					14		38		
103				220-230	175	200	250	14	24	33	51	100	150(144m)*1 150(105 38 60	150(105m)*1	- 5.5 3.5	3560
104		1.5(90)	1.5(90) 17	380-415	60	75	100					22		60		
105				440-480	100	100	150					14	30	38		
106		1.75(105)	.75(105) 20	220-230	175	200	250	16	28	38	60	100	150(124m)*1	150(90m)*1	5.5	4150
107				380-415	60	100	125					22	60	60		
108				440-480	100	100	150					22	38		5.5	
109	1		13	220-230	175	200	250	11	19			60	150	150(134m)*1		
110		1.0(60)		380-415	50	60	75			26	40	14	38	38	3.5	2640
		I		440-480	100	100	150				57	17	22		5.5	
111						1 000	250					100	150(130m)*1	150(94m)*1	5.5	
111 112				220-230	175	200	200	-							5.5	
-	1801 ~ 2000	1.5(90)	19	220-230 380-415	175 60	75	100	15	26	36	57	22	38	60	5.5	3960
112 113 114	1801 ~ 2000	1.5(90)	19	_				15	26	36	57	22	38	60 38	5.5 3.5	3960
112 113 114 115	1801 ~ 2000			380-415 440-480 220-230	60	75	100	15	26	36		150	38 150(113m)*1	60		3960
112 113 114	1801 ~ 2000	1.5(90) 1.75(105)	19	380-415 440-480	60 100	75 100	100 150	15	26 31	36 43	57 65			60 38		3960 4620

Note: Maximum length of lead-in wire is 150m, maximum lead-in wire size is 150mm².

<sup>\*1 ( ):</sup> Maximum length of lead-in wire with 150mm².

\*2 Please consult Hitachi or local agent about maximum size and maximum length of lead-in wire.

<sup>\*1 ( ):</sup> Maximum length of lead-in wire with 150mm². \*2 Please consult Hitachi or local agent about maximum size and maximum length of lead-in wire.

# Memo