Caring for you, and ma	king you feel comfortable.
HUMANI	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:			

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HITACHI Inspire the Next



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 1920s.

As social demands on elevators change over time, Hitachi's machine room-less elevator model UAG series SN1, 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. •2017•The tallest building in Singapore, famous as the winner of the World Architecture News Mixed-Use Award: Tanjong Pagar Centre, Singapore. •2019•Delivery of the Ultrahigh-Speed elevators, with a speed of 1,260 m/min. (21 m/sec.): Guangzhou CTF Finance Centre (530 m), China.



UAG-SN1

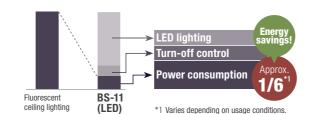
our classifications of value we provide for your building

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

Option

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

Improved riding comfort

Standard

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

Ion generator



lon generator works to improve air quality.

Elevator interior deodorizing test*3 No release of ionized particles (natural decrease) With release of ionized particles 20 40 60

*3 Results after 40 minutes in test performed in (13-passenger) elevator measuring approx. 5.5 m³. Results may differ from those in actual usage space.

space.

*4 Odor strength rank 1
is defined as "extremely
weak odor that is hardly
noticeable."



* Artist's conception.

Page 7

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

Option

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 measure

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.

Safety & Emergency

Design

Page 8

LCD indicators

Option

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



In-car LCD Hall LCD indicator indicator



Car and hall designs

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



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Energy efficiency

LED lighting

By adopting LED lighting for all ceiling designs, energy consumption is reduced and service life is prolonged compared with fluorescent lighting. Power consumption approx. 1/3 Power consumption approx. 1/6 that of fluorescent lighting that of fluorescent lighting Employs LED lighting with Employs LED lighting with approx. 3X*2 longer service life. approx. **3X***2 longer service life. Fluorescent Fluorescent BS-11 (LED) SL-11 (LED) ceiling lighting ceiling lighting Power 69 W 23 W* 207 W 33 W*3 consumntion consumption Service life Approx. 12,000 hours Approx. **40,000** hours*4 Approx. 12,000 hours Approx. **40.000** hour Service life By changing the time until the lighting turns off during By changing the time until the lighting turns off during standby from three minutes to one minute... standby from three minutes to one minute... Power consumption can be Power consumption can be reduced to approx. 1/12. reduced to approx. 1/6. Fluorescent Fluorescent ceiling lighting BS-11 (LED) ceiling lighting SL-11 (LED) Annual Approx. 3,000 hours Approx. **1,500** hours*5 Approx. 3,000 hours Approx. 1,500 hours*5 duration duration Annual power Annual power Approx. 207 kWh/year Approx. 621 kWh/year •Reduction of power consumption •Reduction of power consumption BS-11 (LED) Fluorescent Fluorescent ceilina liahtina ceilina liahtina *1 These ceilings are not compliant with EN81-20/50, but 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

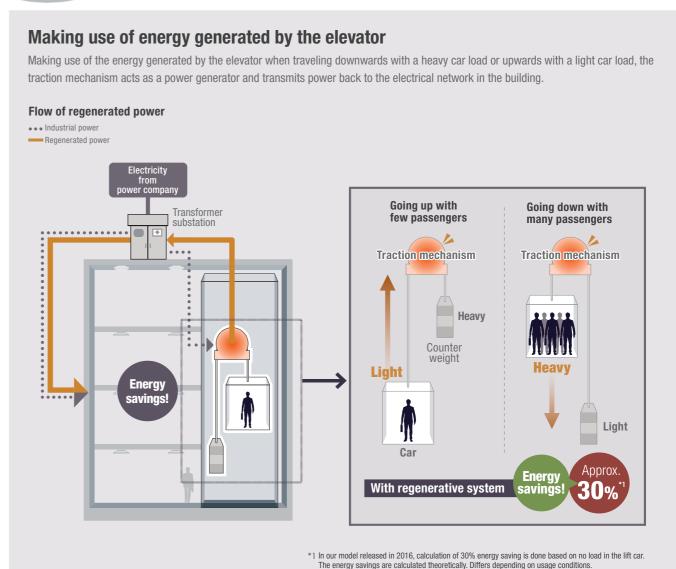
Automatic turn-off of car lighting and fan

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





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

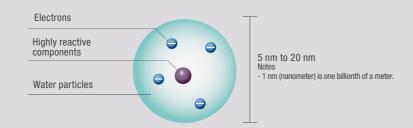
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Ion generator Option



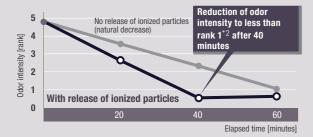
Ion generator improves air quality.

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*

Artist's conception



- *1 Results after 40 minutes in test performed in (13-passenger) elevator measuring approx. 5.5 m³. 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, and 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.

- -The ionized particles suppress viruses, etc., but they are not quaranteed to prevent infection.
- -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 Standard

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 quiet ride.

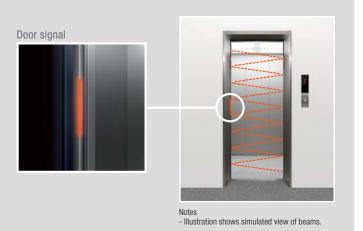
Safety & Emergency

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.



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 Option



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.



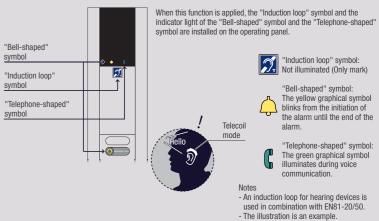
Induction loop for hearing devices Option

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.*1 Operating panel equipped with

*1 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.

this function bears the "Induction loop" symbol.

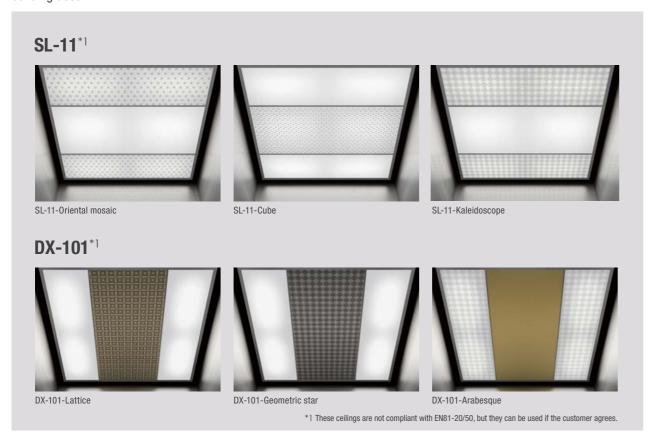
Operating panel with induction loop for hearing devices



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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

Normal

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

个 3

Next 5th floor

Crowded.











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

Hall LCD indicator

Next 5th floor

Floor indication

Option

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

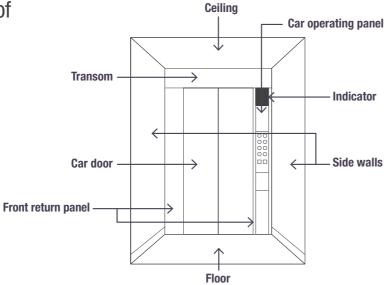
UAG-SN1

Recommended designs

Car designs

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

Car door: Decorated steel (Minamo white)



Recommended designs Samples of designs created by a designer.



Car door: Stainless steel hairline



Car door: Stainless steel hairline



Stylish design (for office)

-	•
Specifications	
Ceiling	SL-series (SL-11-Oriental mosaic) *1
3 side walls	Decorated steel (Craft wood)
Car door	Decorated steel (Craft wood)
Front return panel/Transom	Stainless steel mirror
Floor	Vinyl tile (S 672M)
Indicator	LCD (8.4-inches)
Car operating panel	Stainless steel non-directional hairline
Notes	

⁻ Illustrations show simulated views of elevator interiors.

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Actual illumination brightness and colors may differ.

*1 The ceiling is not compliant with EN81-20/50, but it can be used if the customer agrees.



Stylish design (for commercial building)

Specifications	
Ceiling	DX-series (DX-101-Geometric star)*1
3 side walls	Decorated steel (Minamo white)
Car door	Decorated steel (Minamo white)
Front return panel/Transom	Stainless steel non-directional hairline
Floor	Vinyl tile (S 442M)
Indicator	LCD (8.4-inches)
Car operating panel	Stainless steel non-directional hairline
Notes	





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 Non-directional hairline
Floor	Vinyl tile (S 673M)
Indicator	LCD (8.4-inches)
Car operating panel	Stainless steel non-directional hairline



Chic design (for hotel)

Specifications	
Ceiling	DX-series (DX-11)
3 side walls	Laminated plastic sheet (Sandy sakura)*1
Car door	Stainless steel hairline
Front return panel/Transom	Stainless steel hairline
Floor	Vinyl tile (S 672M)
Indicator	LCD (8.4-inches)
Car operating panel	Stainless steel hairline
Netes	

- Notes
 Illustrations show simulated views of elevator interiors.
 Actual illumination brightness and colors may differ.
 *1 The LPS is not compliant with EN81-20/50, but it can be used if the customer agrees.

Notes
- Illustrations show simulated views of elevator interiors.
Actual illumination brightness and colors may differ.
*) The ceiling is not compliant with EN81-20/50, but it can be used if the customer agrees.



.



Simple design (for transport facility)

Standard (BS-11)*1
Stainless steel hairline
Stainless steel hairline
Stainless steel hairline
Vinyl tile (S 670M)
Dot matrix
Stainless steel hairline



Simple design (for hospital)

•	
Specifications	
Ceiling	Standard (BS-11)*1
3 side walls	Decorated steel (Minamo white)
Car door	Stainless steel hairline
Front return panel/Transom	Stainless steel hairline
Floor	Vinyl tile (S 671M)
Indicator	LCD (8.4-inches)
Car operating panel	Stainless steel hairline
Natas	

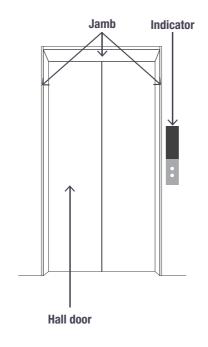
- Notes

 Illustrations show simulated views of elevator interiors.

 Actual illumination brightness and colors may differ.

 *1 The ceiling is not compliant with EN81-20/50, but it can be used if the customer agrees.

Hall designs



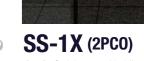


AS-1X (2PC0)

Indicator: Dot-matrix

Jamb: Stainless steel hairline

Hall door: Stainless steel hairline



















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

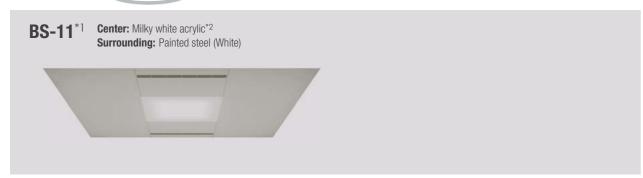


- Illustrations show simulated views of elevator interiors. Actual illumination brightness and colors may differ.

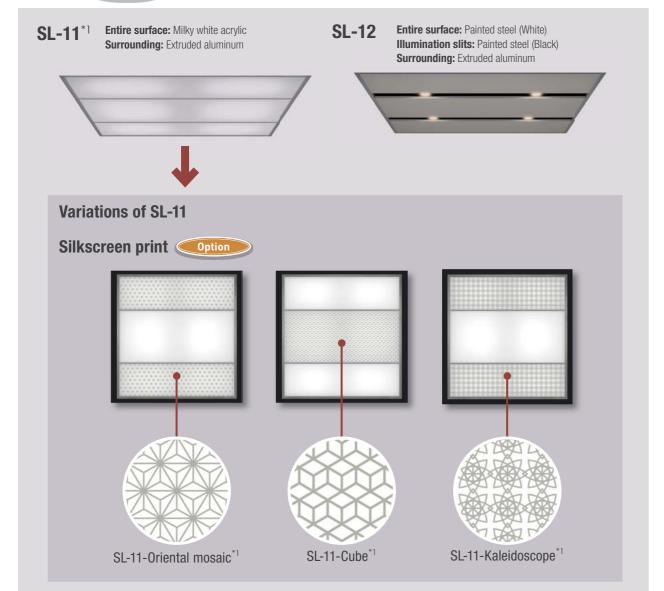
Ceilings and **H**andrails

Ceilings



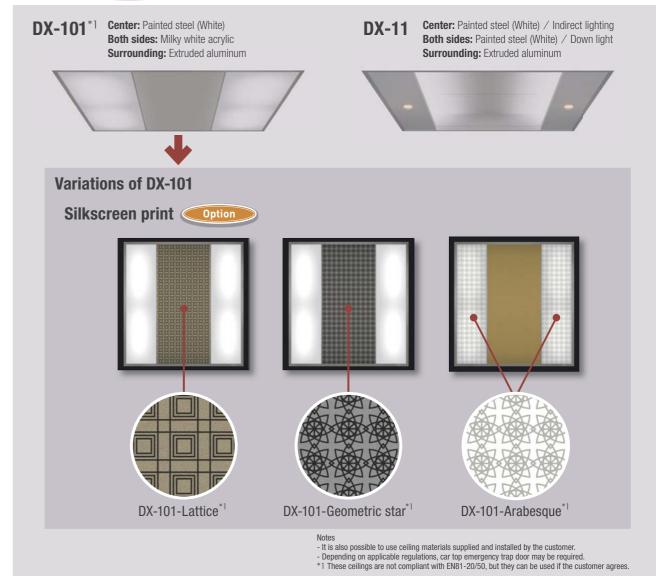


Select Option



- It is also possible to use ceiling materials supplied and installed by the customer.
- Depending on applicable regulations, car top emergency trap door may be required.
 *1 These ceilings are not compliant with EN81-20/50, but they can be used if the customer agrees.
- *2 For some car sizes, there are two milky white acrylic options.

Deluxe Option





Notes
- Illustrations show simulated views of handrail designs. Actual illumination brightness and colors may differ.

Car operating panels

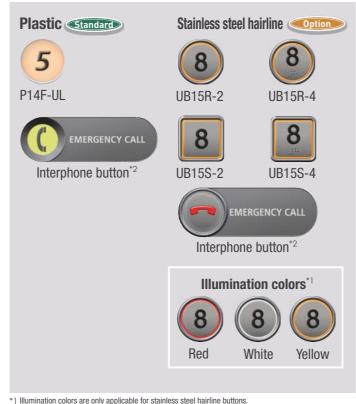




Horizontal operating panels option

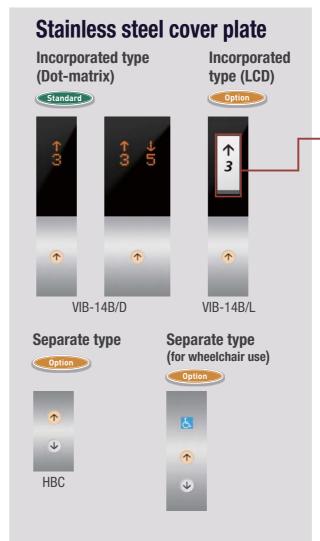


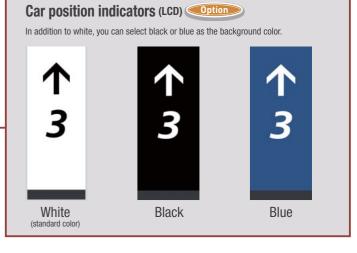
Car button types



*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

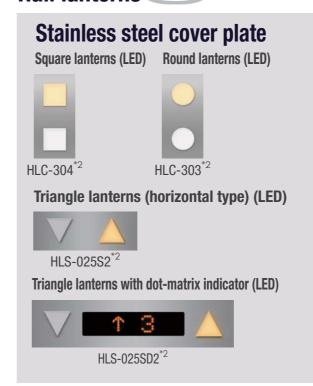




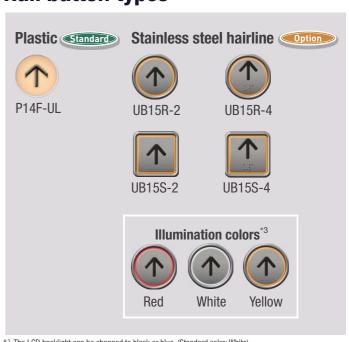
Horizontal indicators Option



Hall lanterns Option



Hall button types



- *1 The LCD backlight can be changed 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.

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7157UN Cosmic Dawn

Car



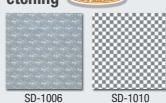
Hall





Non-directional hairline Decorated steel Option Minamo white Craft wood Mocha wood

Stainless steel hairline etching Option





[Car] Door / 3 side walls [Hall] Door

Stainless steel



Decorated steel Option Minamo white Craft wood Mocha wood

[Hall] Jamb / Transom

Non-directional hairline

Stainless steel

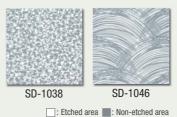
(Standard)

* Decorated steel cannot be used for the hall door.

Stainless steel hairline etching Option



7170UN Metal Pearl Rosewood



8834NT 0869NT Powdered Oak Smoke Strand

Laminated plastic sheet (LPS)*2 Option

5261NT

7171UN

Sandy Sakura Metal Pearl Steel

7158UN

Cosmic Dusk

2726NT Natural Beech

[Car] Floor

Vinyl tile Standard S 444M*3 S 442M*3 S 670M* S 673M* P 0803* P 0807*

- It is also possible to use floor materials The colors printed in the catalog may differ slightly from the actual colors.

 1 SUS430 (Standard), SUS304 (Option)

 2 These LPS are not compliant with EN81-20/50, but they can be used if the customer agrees.
- *3 These vinyl tiles are compliant with EN81-20/50. *4 These vinyl tiles are not compliant with EN81-20/50, but they can be used if the

customer agrees.

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Design variations

Car design variations

🕽 : Sta	endard /	0	:	Option	/ -	:	Not	applicable
---------	----------	---	---	--------	-----	---	-----	------------

No.	Item			Item Finishes / Types		Bed*1
1				Standard (BS-11)*3	•	•
2	Ceiling*2			Select (SL-11)*3 (SL-11-Orriental mosaic)*3 (SL-11-Cube)*3 (SL-11-Kaleidoscope)*3 (SL-12)	0	◎*4
3				Deluxe (DX-101)*3 (DX-101-Lattice)*3 (DX-101-Geometric star)*3 (DX-101-Arabesque)*3 (DX-11)	0	0
4				Stainless steel hairline	•	•
5				Stainless steel hairline etching (SD-1006) (SD-1010) (SD-1038) (SD-1046)	0	0
6				Stainless steel mirror	0	0
7	 - Car door / 3 side wall	s		Stainless steel non-directional hairline	0	0
8				Decorated steel*5 (Minamo white) (Craft wood) (Mocha wood)	0	0
9				Laminated plastic sheet*6 *7 (7170UN) (2726NT) (5261NT) (7171UN) (7158UN) (7157UN) (0869NT) (8834NT)	0	0
10				Rust proof coating steel	0	0
11				Stainless steel hairline	•	•
12				Stainless steel hairline etching (SD-1006) (SD-1010) (SD-1038) (SD-1046)	0	0
13	Front wall / transom	Front well / transcere		Stainless steel mirror	0	0
14	Front Wall / transom			Stainless steel non-directional hairline	0	0
15				Decorated steel	0	0
16				Rust proof coating steel	0	0
17	Kick plate			Stainless steel hairline	•	•
18	- Sill			Extruded hard aluminum	•	•
19	J	ı		Stainless steel	0	0
20	- Floor*8	Compliant w	ith EN81-20/50*9	Vinyl tile (S 442M) (S 444M) (S 629M) (S 670M) (S 671M) (S 672M) (S 673M)	•	•
21	11001	Not complian	nt with EN81-20/50*10	Vinyl tile (P 0803) (P 0807)	•	•
22		Round type	stainless steel hairline	Diameter: 32 mm (one row)	0	_
23	Handrail	Flat type	stainless steel hairline	Width: 50 mm (one row)	0	_
24			aluminum	Width: 90 mm (two rows)	_	
25		Vertical*11		Dot-matrix indicator (OPV/D, OPW/D)	•	•
26	- Car operating panel			LCD indicator (OPV/L, OPW/L) (White, Black, Blue)	0	0
27	- car operating paner			Without indicator	0	0
28		Horizontal fo	r wheelchair	Dot-matrix indicator	0	0
29				Stainless steel hairline	•	
30	Car operating panel o	over plate		Stainless steel mirror	0	0
31				Stainless steel non-directional hairline	0	0
32	Button type			Plastic (P14F-UL)	•	•
33	виноп нуре			Stainless steel hairline*12 (UB15R-2) (UB15R-4) (UB15S-2) (UB15S-4)		0

- *1 Bed type: Available for Thailand, Myanmar, Cambodia, Laos, the Philippines, Vietnam, Macau, Indonesia and Saudi Arabia.
 *2 It is also possible to use materials supplied and installed by the customer.
 *3 These ceilings are not compliant with EN81-20/50, but they can be used if the customer agrees.
 *4 SL-12 is not available for the bed type.
 *5 Not applicable if the ceiling height or entrance height is increased from standard.
 *6 The LPS comes with a stainless steel hairline trim edge.
 *7 These LPS are not compliant with EN81-20/50, but they can be used if the customer agrees.
 *8 When flooring is supplied by the customer, the floor recess shall be 20 mm or 25 mm.
 *9 These vinyl tiles are compliant with EN81-20/50, but they can be used if the customer agrees.
 *10 These vinyl tiles are not compliant with EN81-20/50, but they can be used if the customer agrees.
 *11 Depending on the size of the car, may be mounted on the side wall.

- *11 Depending on the size of the car, may be mounted on the side wall.
 *12 The available button illumination colors are yellow, red, and white.

Hall design variations

lacktriangle : Standard / \bigcirc : Option / - : Not applicable

No. Ite	em		Finishes / Types	Passenger Service	Bed*
1			AS-1X		•
2			SS-1X		0
3 Ja	amb type		TS-1X	0	0
4			SL-2X (Max transom height: 900 mm)	0	_
5			TL-2X (Max transom height: 900 mm)	0	_
6	Jamb finish		Stainless steel hairline		•
7			Stainless steel mirror	0	0
B Ja			Stainless steel non-directional hairline	0	0
9			Rust proof coating steel	0	0
10			Stainless steel hairline	0	_
11			Stainless steel mirror	0	
12 Tr	ansom finish		Stainless steel non-directional hairline		_
13			Rust proof coating steel		
14			Stainless steel hairline		
15			Stainless steel hairline etching (SD-1006) (SD-1010) (SD-1038) (SD-1046)		0
16			Stainless steel mirror		0
	all door		Stainless steel non-directional hairline		0
			Laminated plastic sheet*2 (7170UN) (2726NT) (5261NT) (7171UN) (7158UN) (7157UN)		
18			(0869NT) (8834NT)	0	0
19			Rust proof coating steel	0	0
20 Si	- Sill		Extruded hard aluminum	•	•
21			Stainless steel	0	0
22			Stainless steel hairline	•	•
23		Incorporated indicator	Stainless steel mirror	0	0
24	all hutton aguar nlata		Stainless steel non-directional hairline	0	0
25 Ha	all button cover plate		Stainless steel hairline	0	0
26		Separate indicator	Stainless steel mirror	0	0
27			Stainless steel non-directional hairline	0	0
28			Stainless steel hairline	0	0
29		Incorporated indicator	Stainless steel mirror	0	0
30 Ha	all button cover plate		Stainless steel non-directional hairline	0	0
31 fo	r wheelchair use		Stainless steel hairline		0
32		Separate indicator	Stainless steel mirror		0
33			Stainless steel non-directional hairline	0	0
34			Dot-matrix	•	•
35		Vertical	LCD (White, Black, Blue)		0
	dicator		Dot-matrix (HF-119)		0
37		Horizontal	LCD (HF-CL11) (White, Black, Blue)		0
38			Stainless steel hairline		0
	orizontal indicator cove	er plate	Stainless steel mirror		0
40		,	Stainless steel non-directional hairline	0	0
41			Plastic (P14F-UL)		
	utton type		Stainless steel hairline*3 (UB15R-2) (UB15R-4) (UB15S-2) (UB15S-4)		0
43			Square lanterns (HLC-304) (Orange, White)		
43		Vertical			0
La	antern		Round lanterns (HLC-303) (Orange, White) Triangle lanterns (HLS-025S2)	_	
45		Horizontal	Triangle lanterns (HLS-025S2) Triangle lanterns with dat matrix indicator (HLS-025SD2)	0	0
46			Triangle lanterns with dot-matrix indicator (HLS-025SD2)	0	0
47			Stainless steel hairline	0	0
	antern cover plate		Stainless steel mirror	0	0
49			Stainless steel non-directional hairline		0

^{*1} Bed type: Available for Thailand, Myanmar, Cambodia, Laos, the Philippines, Vietnam, Macau, Indonesia and Saudi Arabia.
*2 The LPS comes with a stainless steel hairline trim edge and cannot be used for the hall door when fire rated doors are required.
*3 The available button illumination colors are yellow, red, and white.

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Functions

			●:3	Standard / @): Optior
No.	Name		Description	Passenger Service	Bed*1
Оре	erating systems				
1	Simplex collect	ive control	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	Duplex collectiv	ve 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	0
3	Group control	FI-10	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	0
4	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	0
Ser	vice functions				
1	Automatic retu	rn function	After all the calls have been served, the elevator will return to the stand by floor for stand by.	©*2	◎*2
2	Attendant opera	ation	For this system, the stop floor is manually set by an attendant, such as in a department store.	0	0
3	Independent op	eration	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 operati	on	The elevator can be parked at the parking floor by a key switch.	©*3	©*3
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	0
6	Separated simplex operation		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	0
7	Interphone syst	tem	An interphone system is provided for emergency communication between the elevator and the master unit in the supervisory panel, etc.	•	•
8	Floor lock-out (peration	Specific service floors can be locked-out by activating a switch.	0	0
9	Temporary call certain restrict	registration of ed floor	By inputting a pre-programmed code using the car operating board floor buttons, passengers can gain access to certain restricted floors.	0	0
10	Door nudging o	peration	When the door has been open for a certain period of time, a buzzer sounds and the door forcibly closes.	0	0
Saf	ety functions				
1	Abnormal spee function	d protection	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-ope	en 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	on	When the elevator stops out of the door-open zone, it will move to the nearest floor at slow speed to release passengers.	•	•
4	Door safety ret	urn system	In 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 the 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 Bat Power Supply (In the event of a power failure, this emergency supply allows the operation of a light and alarm bell, etc.	0	0
8	Multi-beam doo		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 wit door sensor	h multi-beam	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	0
10			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	0

*1 Bed type: Available for Thailand, Myanmar, Cambodia, Laos, the Philippines, Vietnam, Macau, Indonesia and Saudi Arabia.
*2 Included in the standard configuration when duplex collective control or group control is selected.
*3 Included in the standard specifications for Thailand, Laos, Myanmar, and Cambodia.
*4 EBOPS (UPS) is provided as a standard specification when it is required by regulations.

: Standard /
 : Option

No.	Name Description						
Acc	cessibility						
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	0			
3	Sound button	An electronic tone sounds when the buttons are pressed to confirm call registration.	0	0			
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	0			
Sec	curity 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	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.)						
Info	ormation functions						
1	IC auto announcement (English / Thai / Mandarin / Cantonese / Portuguese)	Preset standard messages are announced to the passengers.	0	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.)						
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	0			
Ene	ergy-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	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.	•	•			
Use	er services						
1	Door open time adjustment	The duration of the door open timing is tailored to usage conditions, substantially improving operational efficiency.	•	•			
2	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	•			
3	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	0			
4	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.	•	•			
5	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.)	•	•			
6	Supervisory panel	This panel provides various supervisory operations, including communication and status monitoring.	0	0			
7	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	0			
8	lon generator*3	A device that generates ionized microparticles enclosed in water is mounted on top of the car to ensure pleasant air quality inside the elevator.	0	0			
	*						

^{*1} Bed type: Available for Thailand, Myanmar, Cambodia, Laos, the Philippines, Vietnam, Macau, Indonesia and Saudi Arabia.
*2 Induction loop for hearing devices is used in combination with EN81-20/50.
*3 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.

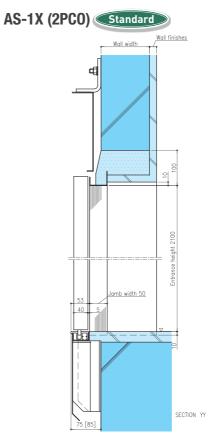
UAG-SN1 25 26 UAG-SN1

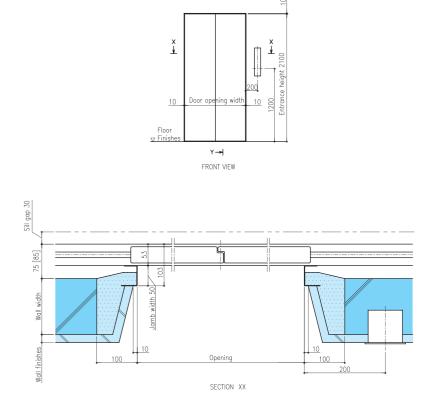
(unit: mm)

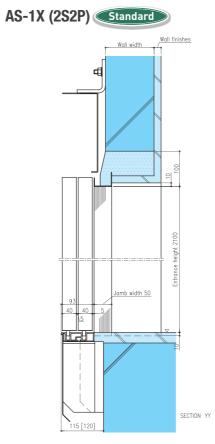
*2 Fire rated door is provided as a standard specification when it is required by regulations.

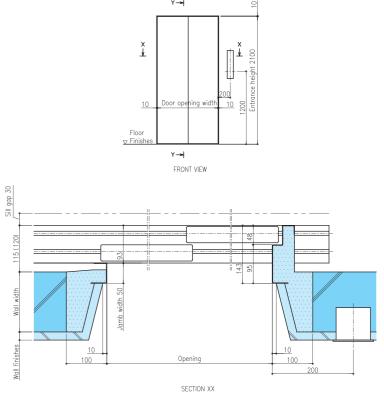
Dimensions



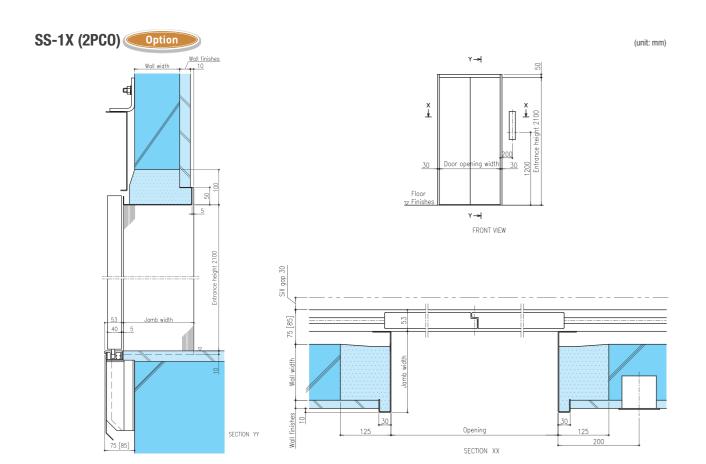


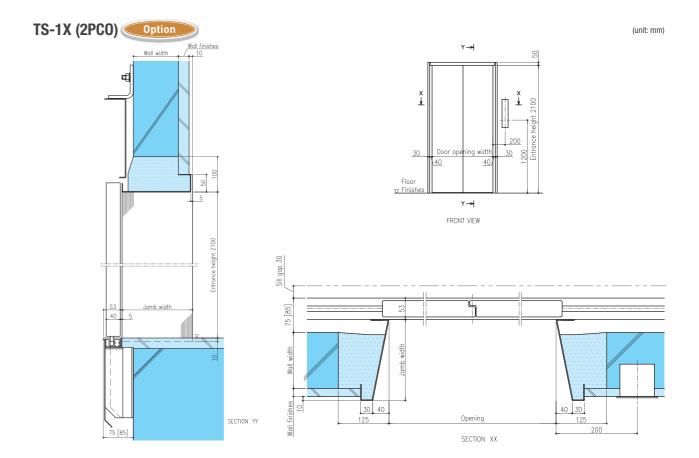


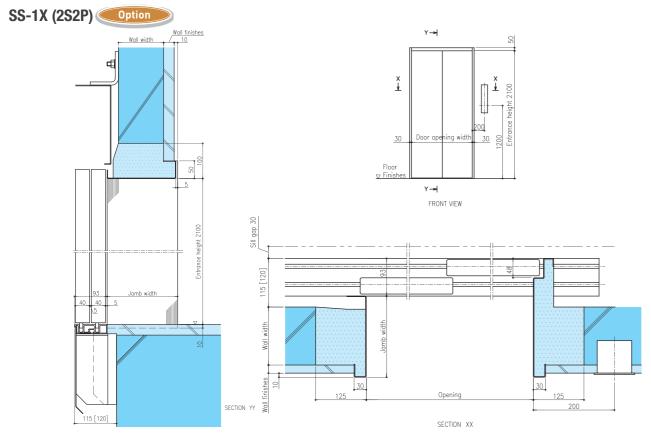


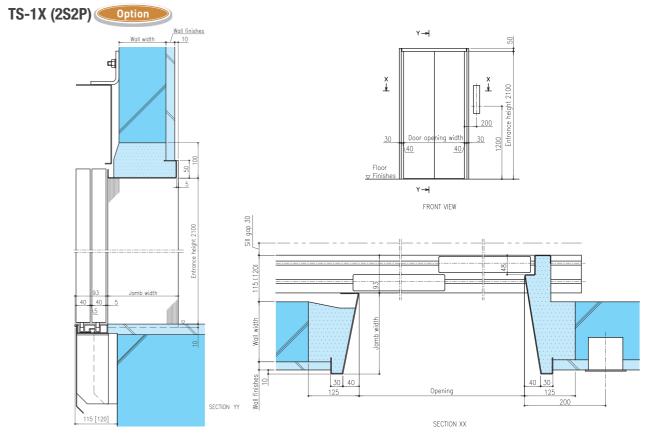


^{*1} Bed type: Available for Thailand, Myanmar, Cambodia, Laos, the Philippines, Vietnam, Macau, Indonesia and Saudi Arabia.

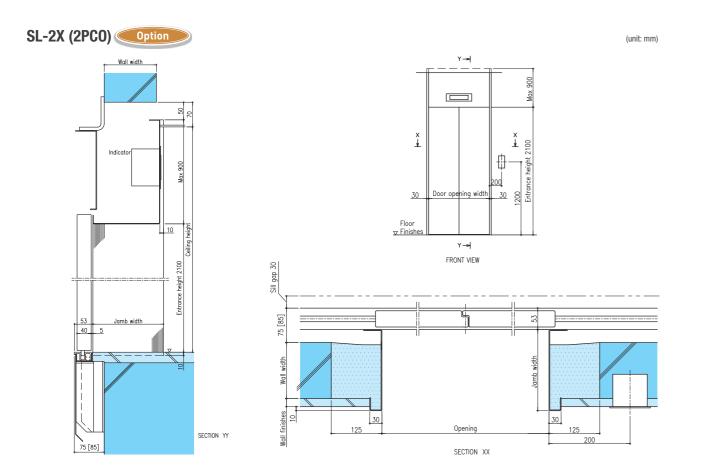


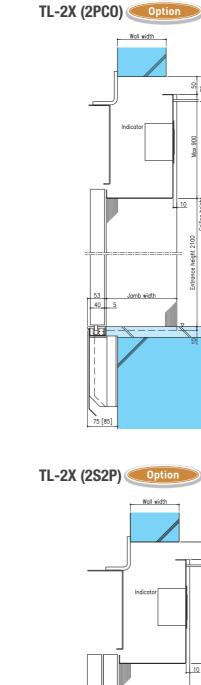


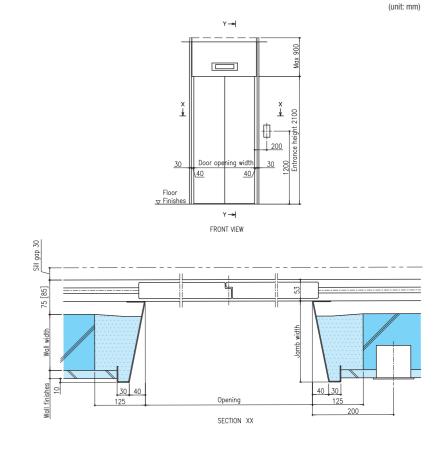


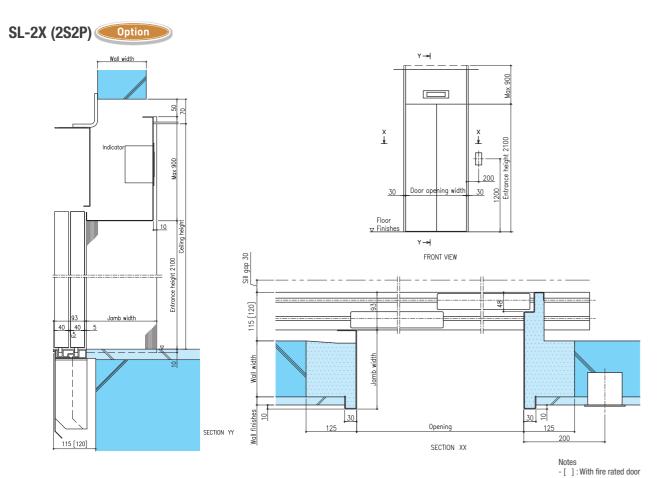


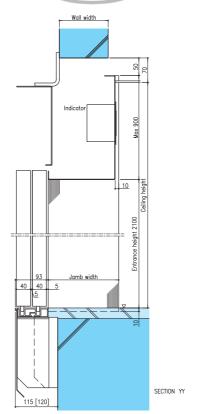
Notes - [] : With fire rated door Notes - []: With fire rated door

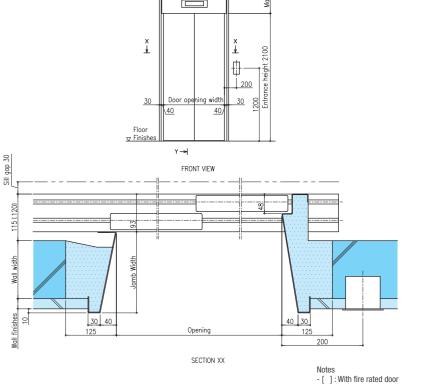












Work to be done by building contractors

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.

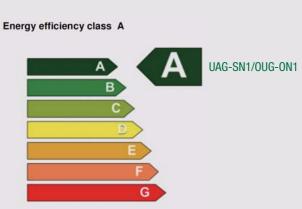
No.	Items
1	Prepare hoistway with proper framing and enclosure, suitable pit of proper depth with drains and water-proofing if required, and properly lit and ventilated hoistway of adequate size with concrete floors, access doors, ladders and guards as required.
2	Provide and/or cut all necessary holes, 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.



Lift e	nergy efficiency certi	ficate according to ISO 25745-2
Manufacturer:	Hitachi Building Systems Co., Ltd.	Energy efficiency class A
ocation:	1070 Ichige, Hitachinaka-shi, Ibaraki-ken, 312-8506 Japan	A A
Lift model:	UAG-SN1/OUG-ON1	C>
Lift type:	Passenger Lift	2>
Serial number:	W80516-01	(E)
Rated load: Rated speed: Operating days per year;	1,050 kg 1,75 m/s 365	G G
die power: 246 W ferformance level for	ide: 4	4,164 kWh
lmin standby power: Performance level for		(A
Omin standby power Performance level for		*
Specific running energ 1.581 mWh/kg*m Performance levels to	gy for the average cycle: r running: 1	
Usage category 6 at SO 25745-2:2015 Comparisons of energy cossible under equal us	efficiency classes are	
Date: 21.02.2017 Reference: ISO 25745		

Model	UAG-SN1/OUG-ON1	UAG-SN1/OUG-ON1
Location	Japan	Japan
Rated load	1,050 kg	1,635 kg
Rated speed	1.75 m/s (105 m/min.)	1.75 m/s (105 m/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

Notes
-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 January 2021

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.

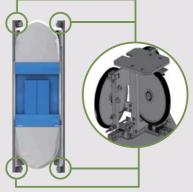


Traction mechanism for 1,260 m/min.

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.



Active guide rollers (3D model)



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. (Singapor

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. (Japan

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.

UAG-SN1

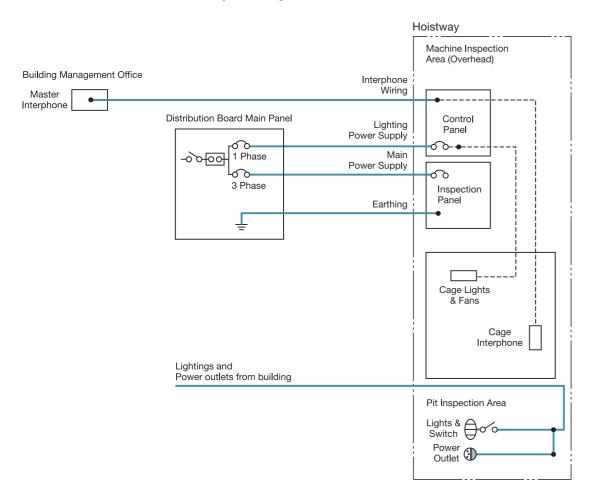
Memo	

Memo	

Electrical information

Wiring Diagram

shows the works to be done by building.



■Work to be provided by building

<u> </u>								
Item	Works to be provided by building							
Main power supply ⁴	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 0.9mm ² /elevator) for interphone located outs 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.							

Notes

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MACHINE ROOM-LESS ELEVATOR

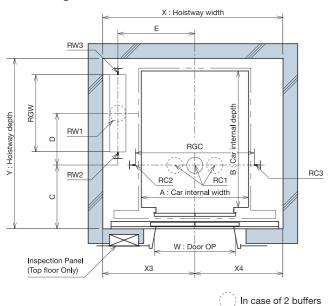
Model UAG Series SN1
PLANNING INFORMATION

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".

^{*1} Main power, lighting power, indicator power supply and interphone wiring shall be led into the hoistway at the highest lift landing.

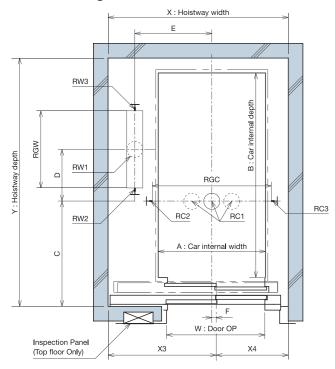
Hoistway dimension

Passenger (2PCO)



Hoistway dimension and Pit reaction loading

Bed/Passenger (2S2P)



Pit reaction loading

() In case of 2 buffers Hoistway dimension and

Dimension and reaction loading of hoistway

■Based on Hitachi standard, EN81-20/50 and SASO-EN81-20/50

			Rated	_	Door OP	Car internal	*1*2 Hoistway	Location [mm]				Pit reaction loading *3 *4 [kN]																	
No.	Load [kg]	Persons	speed [m/s]	Door type	width W	size A × B	X×Y			L	Jualic	וווון ווע]				Car side		Counterweight side										
	1.91		(m/min)	1,500	[mm]	[mm]	[mm]	Х3	X4 *1	C *2	D	E	F	RGC	RGW	RC1	RC2	RC3	RW1	RW2	RW3								
1			1.0(60)														34.0(232.0)	27.5(225.5)		15.5(209.0)	25.0(222.5								
3				1.5(90) 1.75(105)		800		1850×1750	945	905	655							37.5(294.0)	30.5(287.0)		18.5(270.5)	28.0 (284.0							
4			1.0(60)	1		1100×1400				[665]		790		1220		73.0	34.0 (232.0)	27.5(225.5)	60.0	15.5(209.0)	25.0(222.5								
5		1.5(90)	-	900		2000×1750	1000	1000								37.5(294.0)	30.5(287.0)		18.5(270.5)	28.0(284.0									
7	630	8	1.75(105) 1.0(60)								-		1		1		34.5(232.0)	28.0(225.5)		16.0 (209.0)	25.0(222.5								
8			1.5(90)		800		2000×1700 (2050×1700)	1095	905 (955)			940		1520				31.0(287.5)		18.5(270.5)									
9			1.75(105) 1.0(60)	-		1400×1100				605 [615]			1		1	73.5		28.0(225.5)	61.0	16.0 (209.0)									
11			1.5(90)		900		2150×1700 (2200×1700)	1150	1000 (1050)	[0.0]		995		1630				31.0(287.5)		18.5(270.5)									
12			1.75(105)	-			(2200/1700)		(1000)		-		-		-														
13 14			1.0(60) 1.5(90)	2PC0	800		1950×1750		880				_			79.0		30.0(216.5)		16.5(198.5)									
15	750	10	1.75(105)			1350×1400	(2000×1750)	1070	(930)			915		1470				33.0(275.5)	64.5	19.0(256.5)									
16 17			1.0(60) 1.5(90)	-			2050×1750		980							79.5		30.0(227.5)		16.5(209.0)									
18			1.75(105)		900		2000/1700		300	655	530				800	80.0	40.5(297.0)	33.0(289.5)		19.0 (270.5)	29.5 (285.5								
19			1.0(60)	-	300		2200×1750		1005	[665]	550				000		42.5(240.5)	34.5(232.0)		17.5(209.0)	29.5(227.0								
20 21			1.5(90) 1.75(105)				(2250×1750)		(1055)								46.0 (302.5)	37.5(294.0)	77.0	20.0 (270.5)	32.5(289.0								
22		13	1.0(60)			1600×1400		1195				1040		1720	1	98.0	42.5(240.5)	34.5(232.0)	77.0	17.5(209.0)	29.5(227.0								
23 24			1.5(90) 1.75(105)		1000		2300×1750		1105								46.0 (302.5)	37.5(294.0)		20.0 (270.5)	32.5(289.0								
25			1.0(60)							1005			1		1		43.0(240.5)	34.5(232.0)	77.5	17.5(209.0)	29.5(227.0								
26			1.5(90)		900		2000×2450	1000	1000	[1015]						99.0	46.5(303.0)	38.0(294.5)	70.0	20.0 (270.5)	33.0(289.0								
27 28	1050		1.75(105) 1.0(60)			1100×2100					-	790	0	1220				34.5(232.5)	78.0	17.5(209.0)	29.5(227.0								
29			1.5(90)	2S2P	2S2P 1000		1850×2550 (1900×2550)		740 (790)				45			100.0		38.0(294.5)	79.0	20.0 (270.5)									
30 31		14	1.75(105) 1.0(60)							-	-				4			34.5(232.0)	7 0.0	17.5(209.0)									
32			1.5(90)		900		2200×1850 (2250×1850)	1195	1005 (1055)				140					38.0(294.5)		20.0(270.5)									
33 34			1.75(105)			1600×1500	1			-		1040		1720		99.0			77.5										
35			1.0(60) 1.5(90)		1	1	1									2300×1850		1105									34.5(232.0)		17.5(209.0)
36			1.75(105)		1000	1000					705								38.0(294.5)		20.0 (270.5)								
37 38			1.0(60) 1.5(90)					2600×1950	1390	1210	[715]						117.5		44.0(371.0)	94.5	23.5(342.0)								
39			1.75(105)			1800×1500	[2600×1960]					1210		1940		121.5		50.0(474.5)	98.5	28.0(443.0)									
40	1200	16	1.0(60) 1.5(90)			1000/1000	2650×1950	1275	1275			1210		1540		117.5	54.5(381.5)	44.0(371.0)	94.5	23.5(342.0)	39.0(366.0								
42	1200	10	1.75(105)	2PC0	1100		[2650×1960]	13/3	12/3							121.5	61.5(486.0)	50.0(474.5)	98.5	28.0(443.0)	44.5 (469.0								
43			1.0(60)	2000	1100	000014 400	2800×1900	4 400	4040	655		4040		04.40		122.5	57.0(384.0)	45.5(372.5)		24.0(342.0)	40.5(367.0								
44			1.5(90) 1.75(105)	_		2000×1400	[2800×1910]	1490	1310	[665]		1310		2140	1	126.0	63.0(487.5)	51.0(476.0)	102.5	28.5 (443.0)	45.5(470.0								
46			1.0(60)							855			1			63.5x2sets	57.5(353.0)	46.5(341.5)	100.0	24.0 (309.5)	40.5(335.5								
47 48			1.5(90) 1.75(105)		1000	1700×1800	2500×2150	1345	1155	[865]		1160		1840	1	65.0x2sets 130.0	63.5(446.5)	51.5(434.5)	102.5	28.0(401.0)	45.5(428.5								
49	1350	18	1.0(60)				2800×1950			705			1		1	65.0x2sets	59.0(386.0)	47.5(374.5)	103.5	24.5(341.5)	41.5(368.5								
50 51			1.5(90)	-		2000×1500	[2800×1960]	1490	1310	[715]	640	1310		2140	900	67.5x2sets 135.0	66.0(490.5)	53.5(478.0)	108.5	29.0(443.0)	47.0(471.5								
52			1.75(105) 1.0(60)		1100					4455			1		-		64.5(390.5)	52.0(377.5)	116.5	25.5(341.5)	44.5(371.0								
53			1.5(90)				2500×2750	1250	1250	11155						75.25x2sets	70.5(494.0)	57.0(481.0)	118.5	30.0 (442.5)									
54 55			1.75(105) 1.0(60)			1400×2400					1	1010		1540			65.0(390.5)		118.0	26.0(341.5)									
56			1.5(90)	2S2P	1200		2200×2850 (2250×2850)	1310		1232 [1237]			95			75.75x2sets		57.5(481.0)	119.5	30.0 (442.5)									
57			1.75(105) 1.0(60)				(2230/2030)		(340)	[1207]	-				-	151.5													
58 59	1600	21	1.5(90)		1000		2600×2200		1205							74.5x2sets	64.0(359.5)		114.5	25.5(309.5)									
60			1.75(105)			1800×1850		1395		880		1210		1940		149.0	/0.0(453.5)	57.0 (440.0)	117.0	29.5(401.0)									
61			1.0(60) 1.5(90)	2PC0			2650×2200		1255	[890]			_			73.25x2sets 74.5x2sets	64.0(359.5)		114.5	25.5(309.5)									
63			1.75(105)	1	1100				1200							149.0	70.0(453.5)	57.0 (440.0)	117.0	29.5(401.0)									
64 65			1.0(60) 1.5(90)	-		2000×1750	2800×2100	1//05	1315	830		1310		2140		75.75x2sets 76.75x2sets	66.5(393.5)		120.5	26.0(341.5)									
66			1.75(105)	1		2000/1/30	2000^2100	1400	1313	[840]		1310		2140		153.5	72.0(497.0)	58.5 (483.0)	122.5	30.5(443.0)	50.5(475.0								
Notes									ale T		. Teas sa	l diasa	\	60															

Notes

- 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 (): EN81-20/50 *4 Rated speed 1.0m/s: Travel distance ≤ 60m Rated speed 1.5 , 1.75m/s: Travel distance ≤ 80m

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■Based on Hitachi standard for bed

			Rated			Car internal	Hoistway			Lo	ootio	n Imr	n]				Pi	t reaction lo	pading*2 [kl	N]	
No.	Load Persons speed Door Width Size X x Y		Location [mm]							Car side		Counterweight side									
	1.91		(m/min)	1,00	[mm]	[mm]	[mm]	Х3	Х4	C*1	D	E	F	RGC	RGW	RC1	RC2	RC3	RW1	RW2	RW3
1			1.0(60)							1182											
2	750	11	1.5(90)		1100	1300×2300	2050×2750	1260	790	[1187]		975	95	1420		90.5	44.0	36.5	76.0	21.0	32.5
3			1.75(105)	2S2P						[1101]	640				900						
4			1.0(60)	2021						1282	040				300						
5	1000	15	1.5(90)		1200	1500×2500	2250×2950	1410	840	[1287]		1075	145	1620		108.0	49.5	41.0	88.5	22.0	36.0
6			1.75(105)							[1207]											

- Notes

 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 []:With fire rated door *2 Travel distance ≤ 60m

■Based on Malaysian regulations

			Rated		Door OP	Car internal	Hoistway *1			Lo	oatio	n [mn	ทาไ				Pit	reaction lo	ading *2 [kl	N]	
No.	Load [kg]	Persons	speed [m/s]	Door type	width W	size A × B	X×Y			LU	callu	["]				Car side		Cour	nterweight	side
	191		(m/min)	.,,,,	[mm]	[mm]	[mm]	Х3	X4 *1	C	D	Е	F	RGC	RGW	RC1	RC2	RC3	RW1	RW2	RW3
1			1.0(60)				1950×1750		880								223.5	216.5		198.5	213.0
2			1.5(90)		800		(2000×1750)		(930)							79.0	282.5	275.5	64.5	256.5	271.5
3	750	11	1.75(105)	2PC0		1350×1400		1070		665		915	-	1470		70.5					
4			1.0(60)		000		0050:4750									79.5	234.5	227.5		209.0	224.0
5			1.5(90) 1.75(105)		900		2050×1750		980		530				800	80.0	298.0	290.5		271.5	286.5
7			1.0(60)						740								229.5	221.0		198.5	216.0
8	955	14	1.5(90)	2S2P		1100×2100	1850×2550	1110	740	1087		790	45	1220		96.0			77.0		
9		Ī	1.75(105)		1000		(1900×2550)		(790)								289.5	281.0		257.5	276.0
10			1.0(60)		1000		2600×1960	1390		715		1210) –			117.0	382.0	371.0	94.5	342.0	366.0
11			1.5(90)			1800×1500								1940		121.0	488.0	476.5	98.5	445.0	471.0
12	1160	17	1.75(105)	2PC0												4470			0.4.5		
13		-	1.0(60)		4400		0050	4075								117.0	382.0	371.0	94.5	342.0	366.0
14 15		-	1.5(90) 1.75(105)		1100		2650×1960	13/5	12/5							121.0	488.0	476.5	98.5	445.0	471.0
16			1.0(60)								640				900	71.5x2sets	390.5	377.5	113.5	341.5	371.0
17	1500	22	1.5(90)	2S2P	1200	1400×2400	2200×2850	1310	890	1237		1010	95	1540		72.5x2sets					
18	,,,,,		1.75(105)		1200	1 100 2 100	(2250×2850)		(940)							145.0	496.0	483.0	115.5	444.5	475.5
19			1.0(60)				2800×2100	1485								75.25x2sets	393.0	380.0	119.5	341.5	372.5
20	1565	23	1.5(90)	2PC0	1100	2000×1750			1315	840		1310	_	2140)	76.25x2sets	498.5	484.5	121.5	445.0	477.0
21			1.75(105)													152.5	750.5	UU	121.0	U.U	477.0

- Notes

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

UAG-SN1 | 2

- *1 ():Travel distance > 60m *2 Rated speed 1.0m/s:Travel distance ≤ 60m Rated speed 1.5 , 1.75m/s:Travel distance ≤ 80m

Dimension of Hoistway and Pit Reaction Loading

Dimension and reaction loading of hoistway

■Based on Hitachi standard for India

	Local		Rated	Door	Door OP	Car internal	Hoistway *1*2			10	catio	n [mr	n1				Pi	t reaction l	oading *3 [k	·			
lo.	Load [kg]	Persons	speed [m/s]	Door type	width W	size A × B	X×Y				Joanic	,,, [,,,,	''']				Car side		Counterweight side				
	. 0.		(m/min)	,,	[mm]	[mm]	[mm]	Х3	X4 *1	C *2	D	E	F	RGC	RGW	RC1	RC2	RC3	RW1	RW2	RW3		
2			1.0(60)		800		1850×1750	945	905								34.0	28.0		16.0	25.0		
3			1.75(105)		000	1100×1400	1030×1730	343	300	655		790		1000		71.5	37.5	31.0	E0 E	18.5	28.		
4			1.0(60)			1100×1400				[665]		790		1220		/1.5	34.0	28.0	59.5	16.0	25.0		
5			1.5(90) 1.75(105)		900		2000×1750	1000	1000								37.5	31.0		18.5	28.		
7	612	9	1.0(60)				2000×1700		905								34.0	27.5		15.5	25.0		
3			1.5(90) 1.75(105)		800		(2050×1700)	1095	(955)	605		940		1520		71.0	37.5	31.0		18.5	27.		
0			1.0(60)			1400×1100	2150×1700		1000	[615]							34.0	27.5	59.0	15.5	25.		
1			1.5(90)		900		(2200×1700)	1150	(1050)			995		1630		71.5	37.5	31.0		18.5	28.		
2			1.75(105) 1.0(60)	2PC0									-				37.0	30.0		16.5	26.		
4			1.5(90)		800		1950×1750 (2000×1750)		(930)								40.5	33.0	-	19.0	29.		
5	748	11	1.75(105)	-		1350×1400	(2000/1750)	1070	(300)	655 [665]		915		1470		79.0	37.0	30.0	64.5	16.5	26		
о 7			1.5(90)	-	900		2050×1750		980	[000]									-		20.		
3			1.75(105)														40.5	33.0		19.0	29.		
))			1.0(60)		800		1850×2450	945	905		530				800	94.5	42.5	34.0	76.0	17.5			
1			1.75(105)	1	000		1000//2400	545	300	1005	300				000		46.0	37.5	77.0	20.0	32		
2			1.0(60)		000	4400,40400	0000000450	4000	4000	[1015]		700		4000		95.5	42.5	34.0	76.0	17.5	29		
3 1			1.5(90) 1.75(105)	-	900	1100×2100	2000×2450	1000	1000			790		1220			46.0	37.5	77.0	20.0	32		
5			1.0(60)				1850×2550		740	1082						94.5	42.5	34.0	76.0	17.5	29		
7	952	14	1.5(90) 1.75(105)	2S2P	1000		(1900×2550)	1110		[1087]			45			95.5	46.0	37.5	77.0	20.0	32		
3			1.0(60)				000014750		4005						-		42.0	34.0		17.0	29		
9			1.5(90)		900		2200×1750 (2250×1750)		1005 (1055)								45.5	37.0	75.5	20.0	32		
) I			1.75(105) 1.0(60)			1600×1400		-		655 [665]						94.0	42.0	34.0		17.0	29		
2			1.5(90)		1000		2300×1750		1105	[000]							45.5	37.0	1	20.0	32		
3 4			1.75(105)	-				1195				1040		1720			43.0	35.0			30		
5			1.5(90)	-	900		2200×1850		1005										-	17.5			
3	1020	15	1.75(105)			1600×1500	(2250×1850)		(1055)							97.5	46.5	38.0	77.5	20.0	33		
7			1.0(60)				2300×1850		1105								43.0	35.0	-	17.5	30		
9			1.75(105)		1000		2000/1000		1100	705							46.5	38.0		20.0	33		
)			1.0(60)		1000		2600×1950	4000	4040	[715]						117.0	54.5	44.0	94.5	23.5	39		
2			1.5(90) 1.75(105)				[2600×1960]	1390	1210							121.0	61.5	50.0	98.5	28.0	44		
3	1156	17	1.0(60)	2PC0		1800×1500	2650×1950					1210	_	1940		117.0	54.5	44.0	94.5	23.5	39		
4 5			1.5(90) 1.75(105)	-			[2650×1960]	1375	1275							121.0	61.5	50.0	98.5	28.0	44		
3			1.0(60)	-			2800×1900			655					-	123.0	57.0	46.0	99.0	24.0	40		
7	1224	18	1.5(90)		1100	2000×1400	[2800×1900			[665]						127.0	63.5	51.5	103.0	28.5	45		
3			1.75(105) 1.0(60)					1490	1310			1310		2140		64.0x2sets	58.5	47.0	102.5	24.5	41		
)	1292	19	1.5(90)			2000×1500	2800×1950 [2800×1960]			705 [715]						66.5x2sets	65.5	53.0	107.5	29.0	46		
2			1.75(105)	-			[2000/1000]			[, 10]					-	133.0 63.5x2sets	58.0				40		
<u>∠</u> 3	1360	20	1.5(90)	1	1000	1700×1800	2500×2150	1345	1155	855		1160		1840		64.75x2sets		46.5	99.5	24.0			
1			1.75(105)							[865]	640				900	129.5	63.5	52.0	102.0	28.5	45		
5			1.0(60)	1	1100		2500×2750	1250	1250	1155						71.5x2sets 72.5x2sets	63.5	50.5	113.5	25.5	44		
7			1.75(105)			1400×2400		. 230	. 230	[1165]		1010		1540		145.0	69.5	56.0	115.5	29.5	49		
3			1.0(60)	2S2P	1200	1700/2400	2200×2850	1210		1232		1010		1040		71.5x2sets	63.5	50.5	113.5	25.5	44		
)	4.400	00	1.5(90) 1.75(105)	2021	1200		(2250×2850)	1310	(940)	[1237]			95			72.5x2sets 145.0	69.5	56.0	115.5	29.5	49		
1	1496	22	1.0(60)								1				1	70.0x2sets	62.0	50.0	110.0	25.0	43		
2			1.5(90) 1.75(105)	-	1000		2600×2200		1205	880						71.0x2sets 142.0	68.5	55.5	112.0	29.5	48		
4			1.0(60)	-		1800×1850		1395		[890]		1210		1940		70.0x2sets	62.0	50.0	110.0	25.0	43		
5			1.5(90)	2PC0			2650×2200		1255				-			71.0x2sets	68.5	55.5	112.0	29.5	48		
3 7			1.75(105) 1.0(60)	-	1100					_					1	142.0 75.25x2sets	66.0	53.0	119.5	26.0	45.		
8	1564	23	1.5(90)			2000×1750	2800×2100	1485	1315	830 [840]		1310		2140		76.25x2sets	72.0	58.0			50.		
9		1	1.75(105)							[040]						152.5	12.0	56.0	121.5	30.0	50		

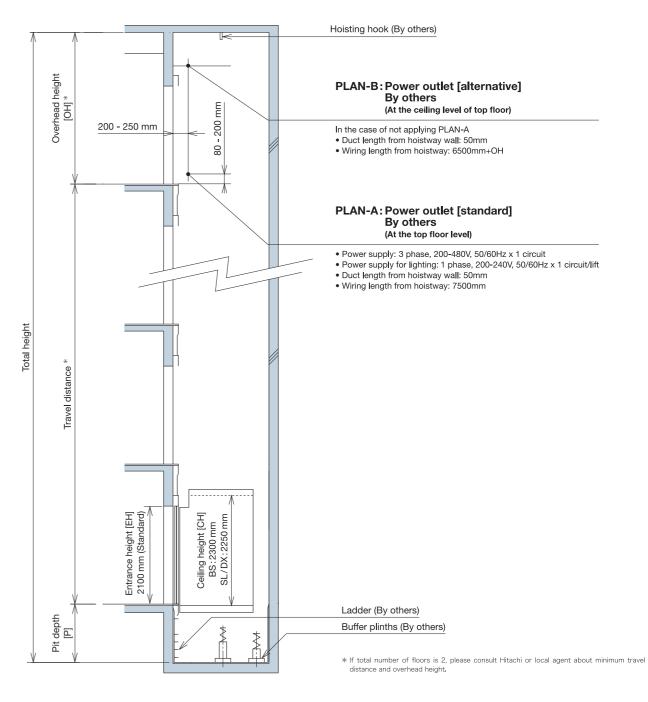
(1) Single elevator in hoistway (2) Without counterweight safety Please consult Hitachi or local agent if other specifications are required.

*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

Overhead Height and Pit Depth

Hoistway section



Dimensions for overhead height, pit depth and other specifications

			Standa	rd overhead he	ight : OH *1 *2 *	Minimum pit depth : P *4 [mm]						
No.	Rated speed [m/s] (m/min)		standard dard for bed lard for India		-20/50 81-20/50	Malaysian	regulations	Hitachi stan Hitachi stand EN81-	standard dard for bed lard for India -20/50 81-20/50	Malaysian regulations		
		Load≤1050kg Load≥1150kg Load≤1050kg Load≥1150kg		Load≤1050kg	Load≥1150kg	Load≤1050kg	Load≥1150kg	Load≤1050kg	Load≥1150kg			
1	1.0(60)	1.0(60) 3750 4150 4150 4250		4250	4200(4320)	4300(4420)	1350	1600	1500	1750		
2	1.5(90)	(3870) (4270) (4270) (4370)		(4370)	4400(4520)	4400(4520)	1350	1600	1600	1850		
3	1.75(105)	4050(4170)	4350(4470)	4350(4470)	4350(4470)	4450(4570)	4450(4570)	1450	1700	1650	1950	

	Rated speed	Other specifications											
No.	[m/s]	Maximum number	Maximum travel	Minimum floor pitch [mm]									
	(m/min)	of stops	distance [m]	EH=2100mm	EH = 2300mm								
1	1.0(60)		60										
2	1.5(90)	24	80*5	2600	2800								
3	1.75(105)		00.0										

^{*1 ():}SL/DX series ceiling

*2 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.

*4 Travel distance ≤ 45m

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

60m < Travel distance: Above pit depth + 200mm

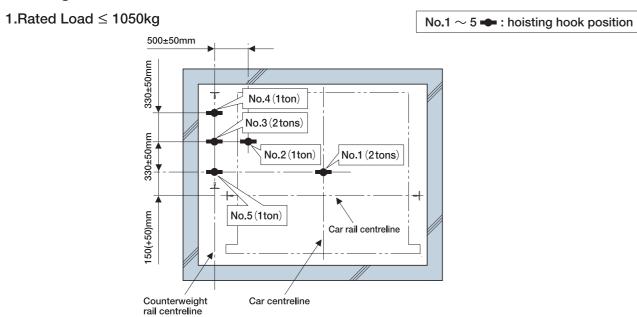
LOAD ≥ 1150kg 45m < Travel distance: Above pit depth + 50mm

*5 Hitachi standard for bed: 60m

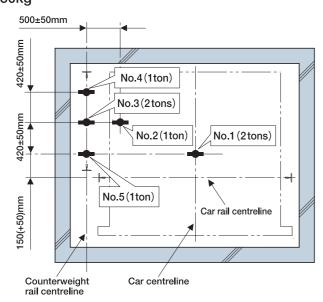
Location of hoisting hook and hoisting beam

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:

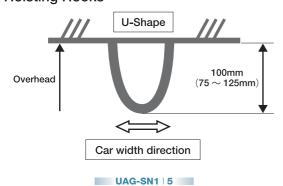
1 Hoisting hooks



2.Rated Load ≥ 1150kg



3. Orientation and size of Hoisting Hooks



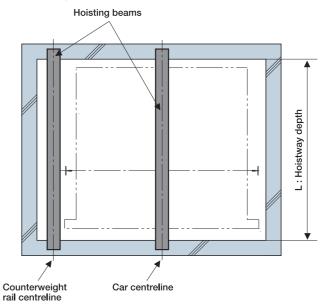
Notes

- The hoisting hooks should be orientated such that the U-shape is facing the hoistway landing
- This hoisting hook size is required to ensure that the hoisting equipment can fit in.

2 Hoisting beams

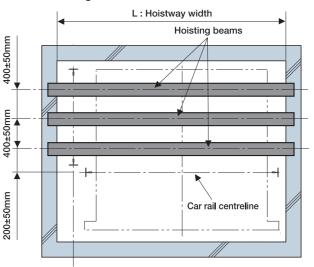
1. Hoisting beams layout (Standard)

Hoisting beams in the direction of car depth

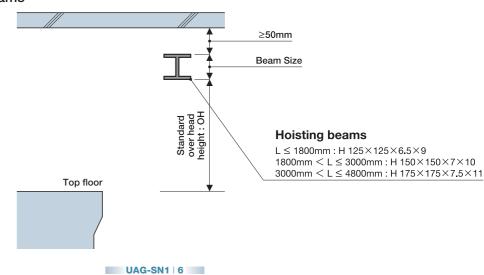


2. Hoisting beams layout (Alternative)

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

	Load	Rated speed	Motor	Supply	Brea	ker capacit	y [A]	Transfo	rmer capac	ity [kVA]	Starting	Lead-i	n wire for d	Irive [mm²]	Earth wire	Calorific value *1
No.	[kg]	[m/s] (m/min)	capacity [kW]	voltage [V]	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	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 (810)
3				440-480	50	75	100					5.5	8	14	2.0	(0.0)
4	000			220-230	100	125	150					22	60	60	3.5	4050
5	630 (612)	1.5(90)	5.8	380-415	30	30	40	6	11	15	20	8	14	22	2.0	1250 (1210)
6	, , , , , ,			440-480	50	75	100					5.5	14	14	2.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
7				220-230	100	125	150					38	60	100	3.5	1460
8		1.75(105)	6.8	380-415	30	40	50	7	12	17	23	8	14	22	2.0	(1420)
9				440-480	50	75	100					Ů		14	2.0	
10				220-230	100	125	150					22	38	60	3.5	
11		1.0(60)	4.6	380-415	20	30	40	5	9	12	16	5.5	14	14	2.0	990
12				440-480	50	75	100					0.0	8	1-7	2.0	
13	750			220-230	100	125	150	7	12	17		38	60	100	3.5	1490
14	(748)	1.5(90)	6.9	380-415	30	40	50	6	11	15	23	8	14	22	2.0	(1480)
15				440-480	50	75	100							14	2.0	
16				220-230	100	125	150					38	60	100		
17		1.75(105)	8.1	380-415	40	40	50				26	14	22	22	3.5	1730
18				440-480	50	75	100	7	12	17		8	14		0.0	
19				220-230	100	125	150					38	60	100		1390
20		1.0(60)	6.5	380-415	30	40	40				22	8	14	22	2.0	(1260/1350)
21				440-480	50	75	100					5.5		14	14	[1260]
22	1050			220-230	100	125	150	9	16	22	30	38	100	150	5.5	2080
23	(952/1020) [955]	1.5(90)	9.7	380-415	40	40	60	8	14	19		14	22	38	3.5	(1890/2020) [1890]
24	[900]			440-480	50	75	100	9	16	22		8	14	22		[1090]
25				220-230	100	125	150					60	100	150	5.5	2430
26		1.75(105)	11.7	380-415	40	50	75	10	17	24	36	14	38	38		(2200/2360) [2210]
27				440-480	50	75	100						22			[2210]
28		()		220-230	100	125	150	8	14	19		38	60	100	3.5	1590/1780
29		1.0(60)	8.3	380-415	40	40	50	7	12	17	27	14	22	38		(1530/1620/1710) [1530]
30				440-480	50	75	100	8	14	19		8	14	22		[1000]
31	1200/1350	4 = (0.0)		220-230	100	125	150					60	100	150(146m)*2	5.5	2380/2670
32	(1156/1224/1292) [1160]	1.5(90)	13.0	380-415	50	60	75	11	19	26	40	14	38	38	3.5	(2290/2420/2560) [2300]
33	[1100]			440-480	400	75	100					-00	22	450/400>*2		(2000)
34		4.75/405)	45.0	220-230	100	125	150	40	04		45	60	150	150(128m)*2	5.5	2770/3120
35		1.75(105)	15.0	380-415	50	60	100	12	21	29	45	22	38	60	3.5	(2670/2830/2980) [2680]
36				440-480	400	75	450					14	22	38		(2000)
37		4.0(00)	400	220-230	100	125	150		40		04	38	100	150	5.5	2110
38		1.0(60)	10.0	380-415	40	50	60	9	16	22	31	14	22	38	3.5	(1800/1980/2070) [2070]
39				440-480	50	75	100					8	14	22 150(120m)*2	E =	
40	1600	1 5 (00)	15.0	220-230	100	125	150	10	24	20	45	60	150	150(128m)*2	5.5	3170
41	(1360/1496/1564) [1565]	1.5(90)	15.0	380-415	50	60	100	12	21	29	45	22	38	60 38	3.5	(2690/2960/3100) [3100]
42				440-480	100	75	150	15	26	36		14	22			
43		1.75(105)	18.0	220-230	100	125	100	15 14	26	36	53	100	150	150(109m)*2	5.5	3690
44		1.75(105)	16.0	380-415 440-480	60	75	100	15	24		 	14	38	60	3 =	(3140/3450/3610) [3610]
45				440-480	50			15	20	36	l	14		38	3.5	1

*1 ():For India use only.

*2 Maximum lead-in wire size is 150mm².

(): Maximum length of lead-in wire with 150mm².

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