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Hitachi
Mini Machine-Room Elevator
Model HGE-Z

Contact Address:

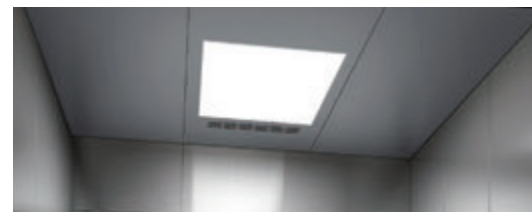
The information in this catalogue is subject to change without notice. The information and diagram used at this catalogue reflect the technical feature and configuration of elevator model at press time (refer to the version number). In line with the principle of continuous development of products, our company reserves the right to change the selection of product technical parameters and colour at any time. The existing image technology cannot accurately reproduce the elevator component structure and decoration colour. Therefore, this catalogue only provides general information, not as a contract document. The specific configuration parameters are subject to the formal agreement.
If you need detailed information, please contact us.

Efficient

LED Lighting

LED lighting is adopted popularly in Hitachi elevator to create a cozy environment for passengers.

LED is DC-powered, flicker-free and energy-efficient. LED lighting is designed with environmental consciousness.



Space-saving Mini Machine-room

Reducing the area of the machine room realizes effective utilization of the building area. It reduces construction costs and provides more usable space.

Safety

Car size for stretcher

Various car sizes for stretchers meet urgent needs in a residential building.

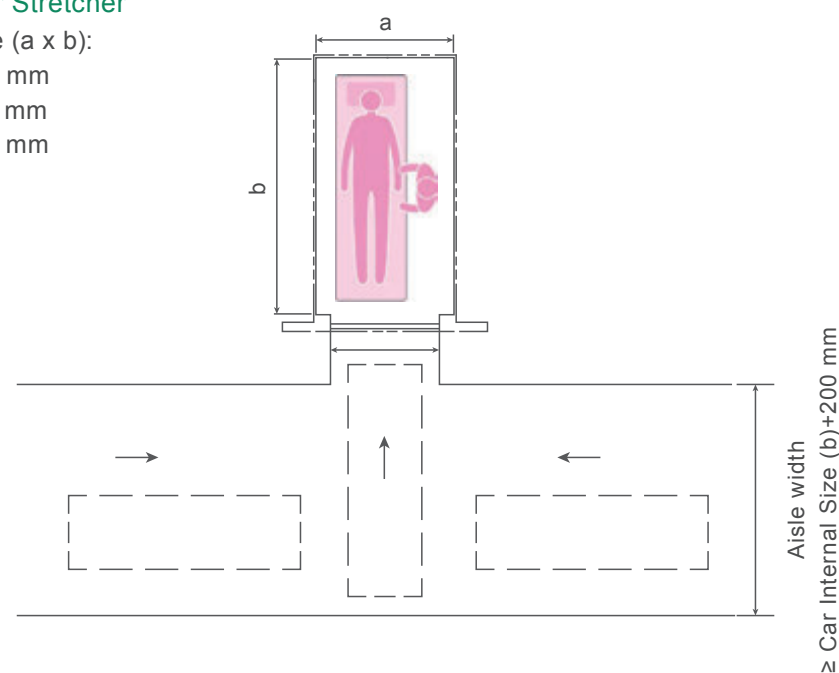
Car Size for Stretcher

Internal Size (a x b):

1100 x 2000 mm

1100 x 2100 mm

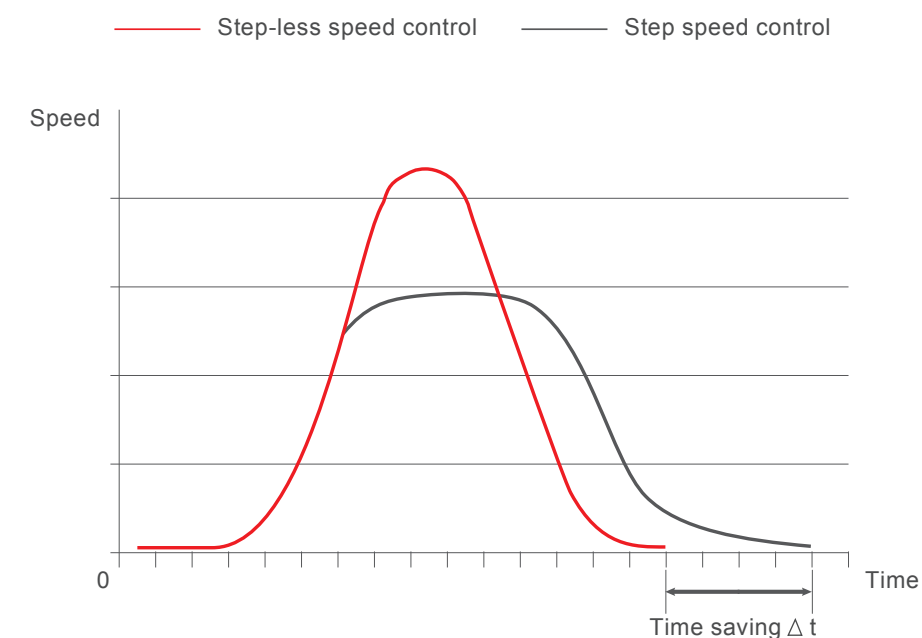
1100 x 2200 mm



Intelligent

Step-less Speed Control

With Hitachi's high efficient control system, a precise travelling speed curve and output according to the distance from the car location to the destination floor are calculated so that the travelling efficiency is improved.



Group Control Management (Option)

A group control system groups multiple elevators for achieving a well-balanced operation by taking waiting time into account. The system provides flexibility so that it can be used in various types and sizes of buildings and be responsive to changing traffic demand.

Car Design (Normal Car)

Standard



Ceiling Height	2300mm
Car Ceiling	RF-081 Painted Steel (HP57) LED Downlight
Front Wall	Painted Steel (HP57)
Side Wall	Painted Steel (HP57)

Rear Wall	Painted Steel (HP57)
Transom	Painted Steel (HP57)
Car Door	Painted Steel (HP57)
Floor	Vinyl Tile (A-26)

*HP57: Matte Light Brown

(Normal Car)

Option



Ceiling Height	2300mm
Car Ceiling	RF-081 Stainless Steel Hairline LED Downlight
Front Wall	Stainless Steel Hairline
Side Wall	Stainless Steel Hairline

Rear Wall	Stainless Steel Hairline
Transom	Stainless Steel Hairline
Car Door	Stainless Steel Hairline
Floor	Vinyl Tile (A-26)

Car Design (Deep Car)

Option



Ceiling Height	2300mm
Car Ceiling	RF-081 Painted Steel (HP57) LED Downlight
Front Wall	Painted Steel (HP57)
Side Wall	Painted Steel (HP57)

Rear Wall	Painted Steel (HP57)
Transom	Painted Steel (HP57)
Car Door	Painted Steel (HP57)
Floor	Vinyl Tile (A-26)

*HP57: Matte Light Brown

(Deep Car)

Option



Ceiling Height	2300mm
Car Ceiling	RF-081 Stainless Steel Hairline LED Downlight
Front Wall	Stainless Steel Hairline
Side Wall	Stainless Steel Hairline

Rear Wall	Stainless Steel Hairline
Transom	Stainless Steel Hairline
Car Door	Stainless Steel Hairline
Floor	Vinyl Tile (A-26)

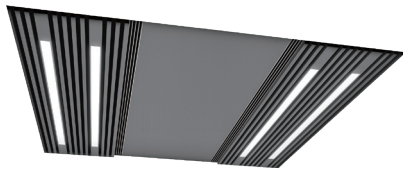
Ceiling (Without Car Top Emergency Exit)

Standard



RF-081
Lighting: Spotlight
Material: Painted Steel_HP57
(Matte Light Brown)

Option



CE-015
Lighting: LED Straight Tube Light
Material: Painted Steel_HM03
(Matt Silver)



DP-016
Lighting: LED Panel Light + Spotlight
Material: Painted Steel_YM47
(Champagne)



RF-013
Lighting: LED Downlight +
Straight Tube Light
Material: Painted Steel_BN18 (Gray)



RF-018
Lighting: LED Panel Light + Spotlight
Material: Stainless Steel +
Painted Steel_HP65
(Matt Black)



RF-056 (False ceiling by customer)
Lighting: LED Straight Tube Light
Material: Painted Steel_BN18 (Gray)



RF-084
Lighting: LED Straight Tube Light
Material: Painted Steel_WN01
(Ivory White)

Ceiling (With Car Top Emergency Exit)

Option



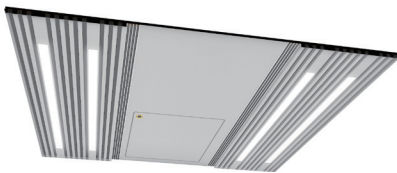
RF-081A
Lighting: Spotlight
Material: Painted Steel_HP57
(Matte Light Brown)



RF-056A
Lighting: LED Straight Tube Light
Material: Painted Steel_WN01
(Ivory White)



RF-013A
Lighting: LED Downlight +
Straight Tube Light
Material: Painted Steel_WN01
(Ivory White)

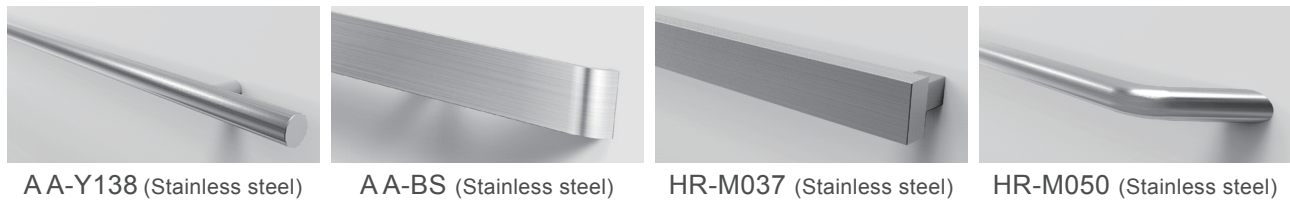


CE-015A
Lighting: LED Straight Tube Light
Material: Painted Steel_WN01
(Ivory White)

Note:
① Applicable with deep car option.
② The above illustrated ceilings are based on 1600 x 1500mm car size.
③ The ceiling profile may varies with different car size. For details, please contact us.

Handrails

Option



Painted Steel

Standard



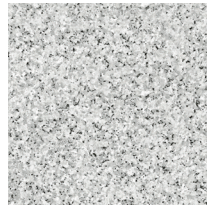
HP57 (Matte Light Tawny)

Option



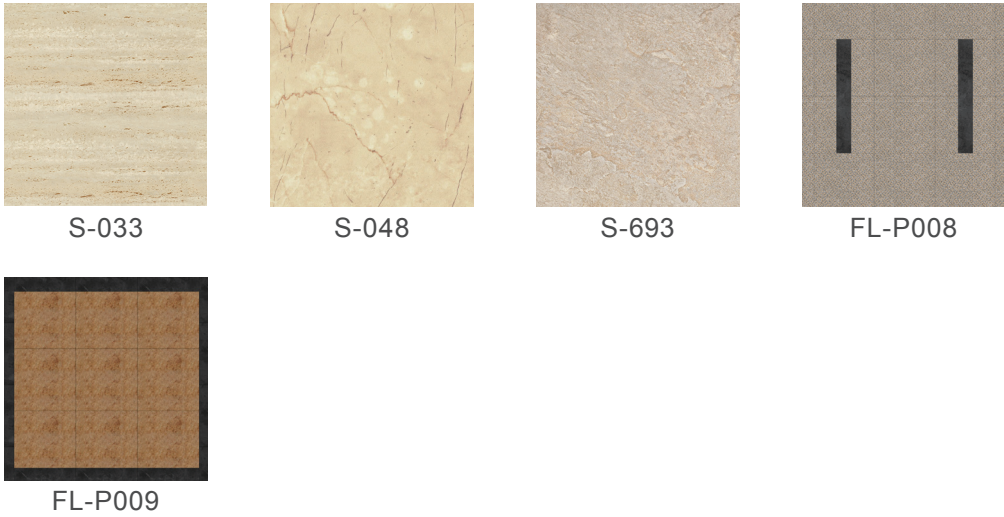
Car Floor (With vinyl Tile)

Standard



A-26

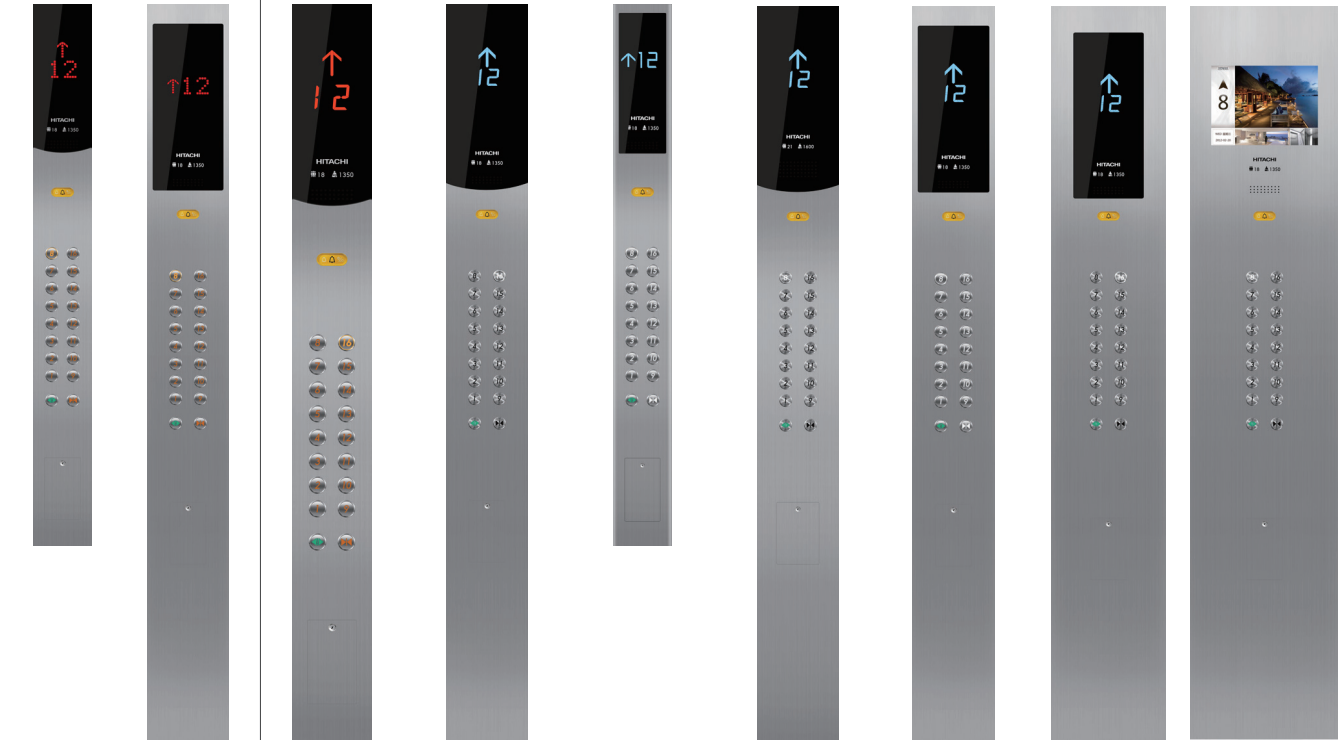
Option



Car Operating Panels (With Faceplate: Stainless Steel Hairline)

Standard

(Normal Car) (Deep Car)



OPM-322	GOP-199	OPM-322	GOP-198	OPM-221	GOP-68	GOP-199	GOPR-820	GOP-678
Indicator: Dot Matrix	Indicator: Dot Matrix	Indicator: Segment LED	Indicator: Monochrome LCD	Indicator*: Monochrome LCD	Indicator: Monochrome LCD	Indicator*: Monochrome LCD	Indicator*: Monochrome LCD	Indicator*: Multimedia LCD
Button: WL-MO	Button: WL-MO	Face Plate: Front Wall	Face Plate: Side Wall	Face Plate: Front Wall	Face Plate: Front Wall	Face Plate: Side Wall	Hinge: Front Wall	Hinge: Front Wall
Face Plate: Front Wall	Face Plate: Side Wall							

Note: *support multiple types of Indicator, kindly consult with local sales about details.

Horizontal Car Operating Panel (With Faceplate: Stainless Steel Hairline)

Option



GOP-610

GOPC-520

Note: The Colours printed in the catalogue may differ from actual colours.

Button

Standard

WL-MO

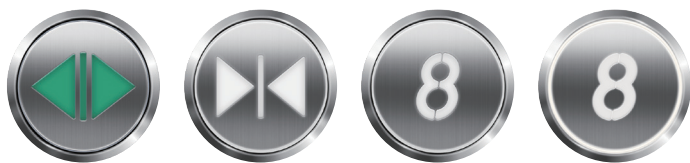
Dimension	ø36mm
Material	Rim: Stainless Steel Brushed Faceplate: Stainless Steel Brushed
Illumination	Symbol and periphery lighted up in orange



Option

WL-MW

Dimension	ø36mm
Material	Rim: Stainless Steel Brushed Faceplate: Stainless Steel Hairline
Braille option available*	



GL-MB

Dimension	42×37mm
Material	Rim: Stainless Steel Faceplate: Stainless Steel Hairline
Braille option available*	



FL-PW

Dimension	ø40mm
Material	Rim: Stainless Steel Mirror Faceplate: Plastic
Braille option available*	



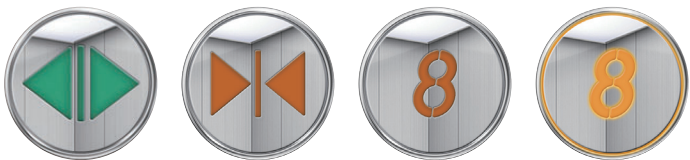
WL-MWB

Dimension	ø36mm
Material	Rim: Stainless Steel Brushed Faceplate: Stainless Steel Hairline
Braille option available*	



XL-MO

Dimension	ø34.4mm
Material	Rim: Zinc Alloy Faceplate: Stainless Steel Mirror
Braille option available*	



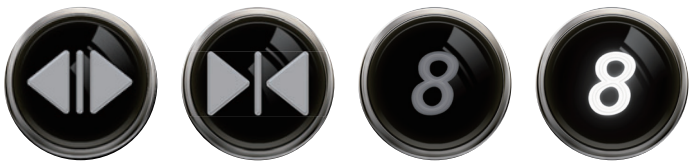
XL-MBA

Dimension	34.4x34.4mm
Material	Rim: Zinc Alloy Faceplate: Stainless Steel Mirror
Braille option available*	



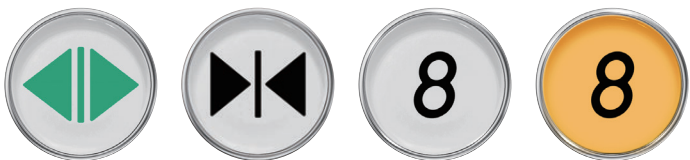
HL-PWA (Antibacterial Button)

Dimension	ø40mm
Material	Rim: Stainless Steel Mirror Faceplate: Plastic
Braille option available*	



XL-PO

Dimension	ø34.4mm
Material	Rim: Zinc Alloy Faceplate: Acrylic
Braille option NOT available	



XL-PWA

Dimension	34.4x34.4mm
Material	Rim: Zinc Alloy Faceplate: Acrylic
Braille option NOT available	



* Braille option available with maximum 2 digits.

Hall Operating Panel (With Faceplate: Stainless Steel Hairline)

Standard



VIB-322/VIB-322W
Indicator: Dot Matrix
Button: WL-MO
Mounting: Surface-mount

Option



VIB-820
Mounting: Surface-mount
Indicator: Colour LCD



VIB-820
Mounting: Surface-mount
Indicator: Monochrome LCD



VIB-187A
Mounting: Embedded
Indicator: Colour LCD



VIB-221
Mounting: Surface-mount
Indicator: Monochrome LCD



VIB-68
Mounting: Surface-mount
Indicator: Monochrome LCD



HB-68
Mounting: Surface-mount



HB-820
Mounting: Surface-mount



HB-187A
Mounting: Embedded



HB-658-01
Mounting: Surface-mount



HBC-820
Mounting: Surface-mount



HBC-20A
Mounting: Embedded

Hall Indicator

Option



GHI-675
Mounting: Embedded
Faceplate: Stainless Steel Hairline



GHI-575
Mounting: Incorporate into transom
Without faceplate

Hall Lantern

Option



GHL-820
Mounting: Surface-mount
Faceplate: Stainless Steel Hairline
With Chime



GHL-20A
Mounting: Embedded
Faceplate: Stainless Steel Hairline
With Chime



GL-BS
Mounting: Surface-mount
Faceplate: Mirror
Stainless Steel
With Chime



GHL-636
Mounting: Embedded
Faceplate: Stainless Steel Hairline
Without Chime



GHL-668
Mounting: Surface-mount
Faceplate: Stainless Steel Hairline
Without Chime

Entrance

Standard

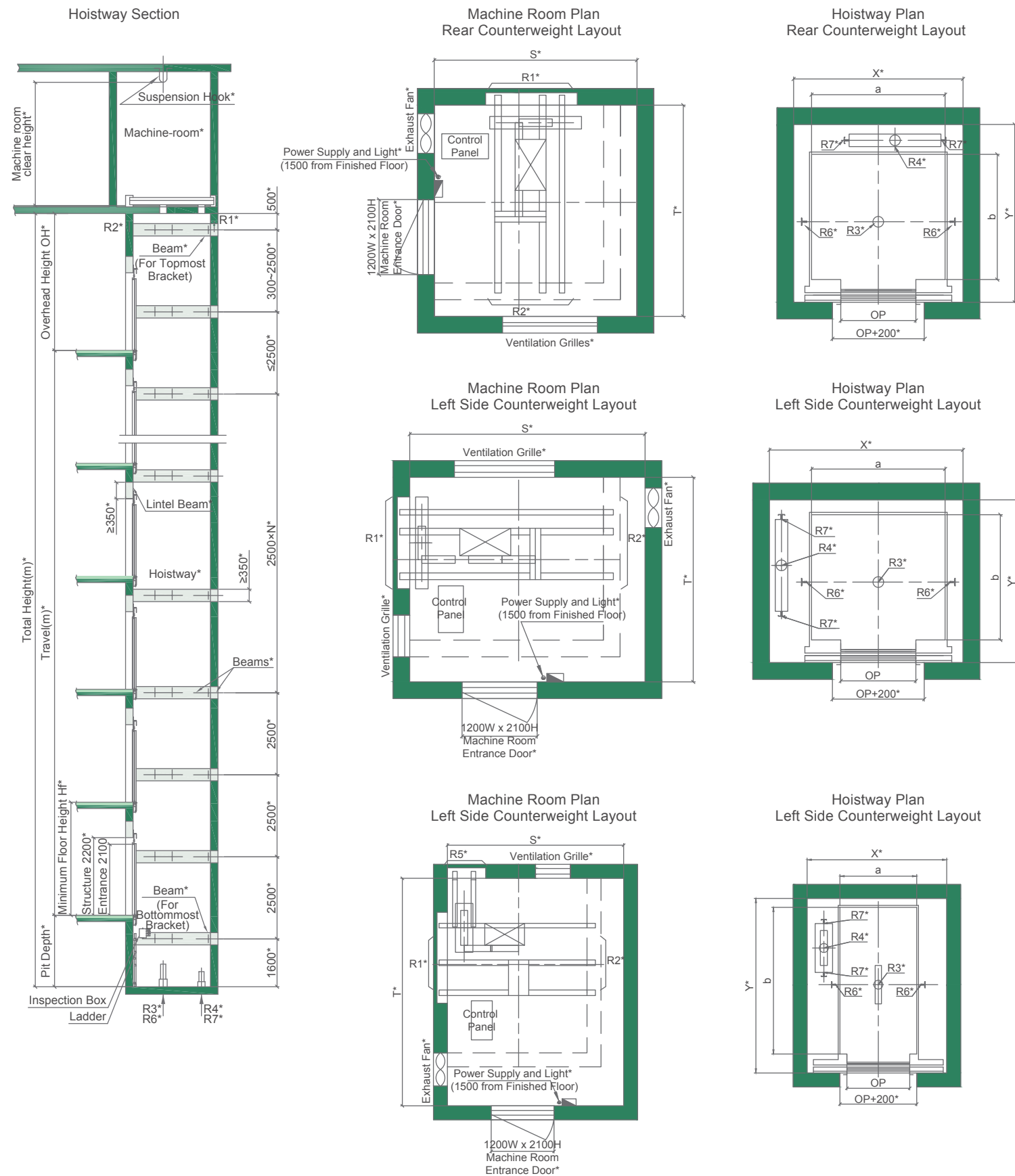


AS-1X
Door: Painted steel (WN01)
Jamb: Painted steel (WN01)

Note: The Colours printed in the catalogue may differ from actual colours.

Planning Guide

Load(kg): 476-1020kg



Note:

- ① In case structure of hoistway is not full concrete, intermediate beams and Lintel beams above Entrance should be built by builder.
- ② Items with "*" shall be furnished by building contractors.
- ③ Unit of dimension shall be in mm unless otherwise stated.
- ④ 2S-2P is not shown from above layout.

	Speed (m/s)				
	1.0	1.5	1.75	2.0	2.5
Maximum Floors	22	32	32	40	40
Maximum Travel (m)	60	100	100	120	120
Maximum Travel with Fireman Operation (m)	58	86	99.5	114	120
Minimum Floor Height (mm)	2800	2800	2800	2800	2800

Speed (m/s)	Machine Room Height (mm)	Hoisting Hooks Capacity (Ton)
1.0/1.5/1.75	2100	3
2.0/2.5	2450	4

Load (kg)	Speed (m/s)	Overhead (mm) *	Pit Depth (mm)
476	1.0	4550	1450
	1.5	4700	1450
	1.75	4750	1500
544 – 1020	1.0	4350	1450
	1.5	4450	1450
	1.75	4550	1500
680 – 1020	2.0	4550 (4700) **	1600
	2.5	4900	1900

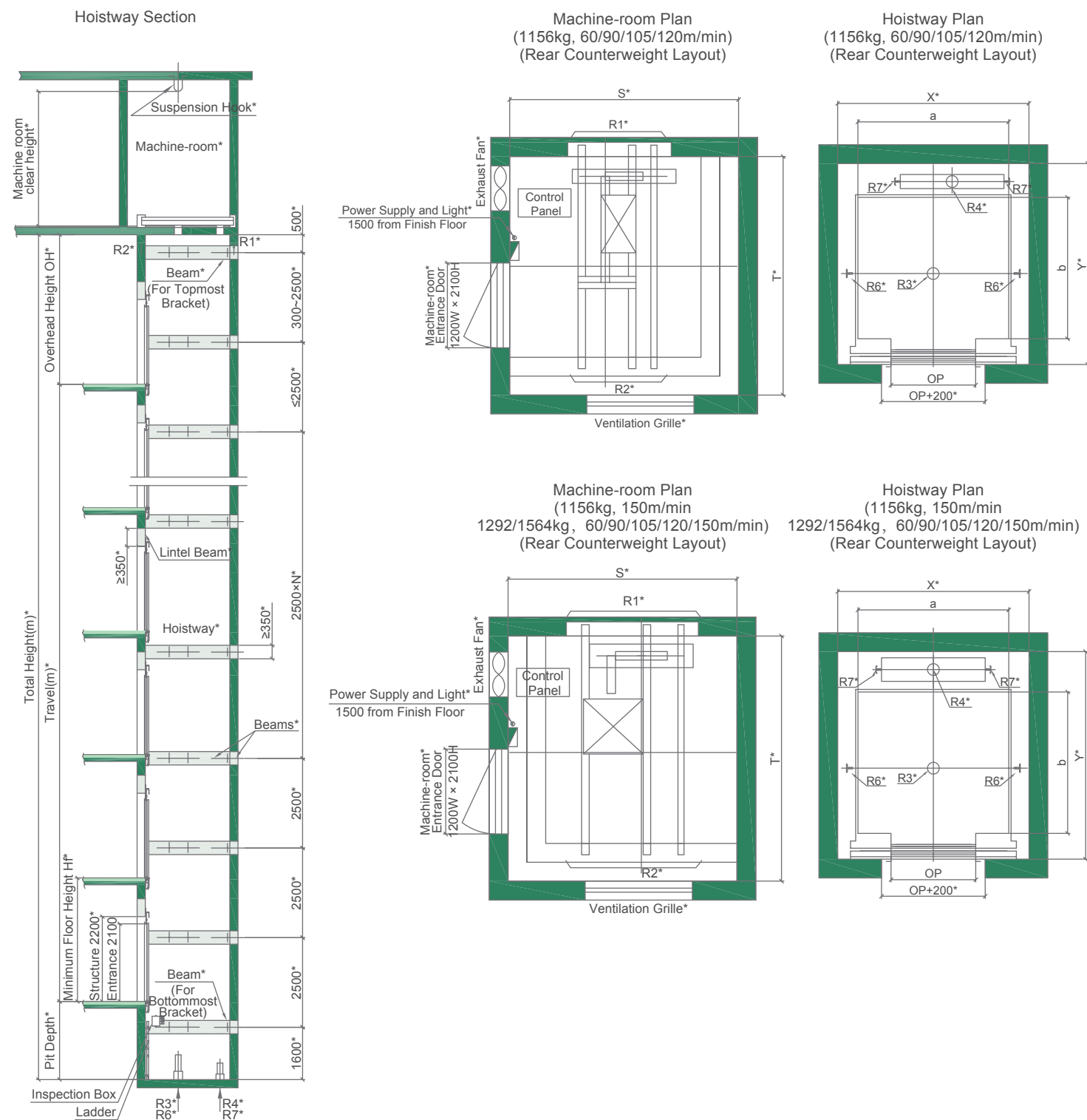
* The overhead is in the case of car ceiling type RF-081 (Ceiling height: 2450 mm).

If you need detailed information, please contact us.

** () : For car size 1100 x 2000 mm/1100 x 2100 mm/1100 x 2200 mm.

Planning Guide

Load(kg): 1156/1292/1564kg



Note:

- ① In case structure of hoistway is not full concrete, intermediate beams and Lintel beams above Entrance should be built by builder.
- ② Items with "*" shall be furnished by building contractors.
- ③ Unit of dimension shall be in mm unless otherwise stated.

	Speed (m/s)				
	1.0	1.5	1.75	2.0	2.5
Maximum Floors	22	32	32	40	40
Maximum Travel (m)	60	100	100	120	120
Maximum Travel with Fireman Operation (m)	58	86	99.5	114	120
Minimum Floor Height (mm)	2800	2800	2800	2800	2800

Speed (m/s)	Load (kg)	Machine Room Height (mm)	Hoisting Hooks Capacity (Ton)
1.0/1.5/1.75/2.0/2.5	1156/1292/1564	2450	4

Load (kg)		1156					1292/1564				
Speed (m/s)		1.0	1.5	1.75	2.0	2.5	1.0	1.5	1.75	2.0	2.5
Overhead	>70m	-	4450	4600	4650	5100	-	4650	4800	4850	5100
	≤70m	4350	4450	4600	4650	5100	4700	4650	4800	4850	5100
Pit Depth	>70m	-	1450	1600	1650	1900	-	1450	1600	1650	1900
	≤70m	1450	1450	1550	1600	1900	1450	1450	1550	1600	1900

* The overhead is in the case of car ceiling type RF-081 (Ceiling height: 2450 mm).
If you need detaild information, please contact us.

Planning Guide

Counterweight Position: Rear

Load(kg) [Persons]	Rated Speed (m/min)	Car Internal Size (mm) a x b	Door Type	Door Width (mm)	Hoistway Size ^[Note 1] (mm) X x Y	Machine Room Size (mm) S x T	Machine Room Reaction Load(KN)		Pit Reaction Load (kN)				
							R1	R2	R3	R4	R6	R7	
476 [7]	1.0	1200 x 1000	2P-CO	800	1750 x 1580	1750 x 1680	48.5	30	95	82	29	3	
	1.5						51	31.5	101	88	34	5	
	1.75												
544 [8]	1.0	1300 x 1100	2P-CO	800	1775 x 1675	1775 x 1675	48.5	30	95	82	29	3	
	1.5						51	31.5	101	88	34	5	
	1.75												
	1.0	1100 x 1300	2P-CO	800	1775 x 1875	1775 x 1875	48.5	30	95	82	29	3	
	1.5						51	31.5	101	88	34	5	
	1.75												
	1.0	1100 x 1300	2S-2P	800	1650 x 1950	1805 x 1950	48.5	30	95	82	29	3	
	1.5						51	31.5	101	88	34	5	
	1.75												
680 [10]	1.0	1300 x 1350	2P-CO	800	1830 x 1930	1830 x1930	58	34.5	113	95	37	3	
	1.5						61	36	120	103	44	5	
	1.75				1830 x 1950	1850 x 1950 2075 x 1950	73.2	47	153	132	55	7	
	2.0						78	48	160	148	57	7	
	2.5												
748 [11]	1.0	1300 x 1400	2P-CO	800	1830 x 1980	1830 x 1980	58	34.5	113	95	37	3	
	1.5						61	36	120	103	44	5	
	1.75				1850 x 2000	1850 x 2000	73.2	47	153	132	55	7	
	2.0						78	48	160	148	57	7	
884 [13]	1.0	1600 x 1350	2P-CO	900	2030 x 1930	2030 x 1930	63	37	122	103	40	3	
	1.5						67	39	131	112	48	5	
	1.75				2050 x 1950	2050 x 1950	74.5	48	158	136	58	7	
	2.0						82	50	165	160	61	7	
	2.5												
1020 [15]	1.0	1600 x 1500	2P-CO	900	2030 x 2080	2030 x 2080	66	40	135	113	42	3	
	1.5						69.5	42	145	123	50	5	
	1.75				2050 x 2100	2050 x 2100	78	48.5	166	140	60	7	
	2.0						89	55	175	168	64	7	
	1.0	1500 x 1600	2P-CO	900	1960 x 2180	1960 x 2180	66	40	135	113	42	3	
	1.5						69.5	42	145	123	50	5	
	1.75				2000 x 2200	2000 x 2200	78	48.5	166	140	60	7	
	2.0						89	55	175	168	64	7	
1156 [17]	1.0	1800 x 1500	2P-CO	900	2250 x 2100	2250 x 2100	82	54	165	154	51	5.5	
	1.5						89	58	183	175	58	9	
	1.75												
	2.0				2300 x 2200	2300 x 2200	92	60	192	184	68	13	
	2.5												
1292 [19]	1.0	2000 x 1500	2P-CO	1100	2550 x 2200	2550 x 2200	116	91	201	171	66	11	
	1.5						131	96	233	202	76	15	
	1.75												
	2.0						136	101	243	212	91	16	
	2.5												
1564 [23]	1.0	2000 x 1750	2P-CO	1100	2550 x 2450	2550 x 2450	126	96	211	181	71	11	
	1.5						136	101	243	212	81	15	
	1.75												
	2.0												
	2.5						141	101	263	222	96	16	

Note:
① The dimensions X and Y of the hoistway in the table are the minimum dimensions, without considering the error in the hoistway size and vertical deviation.
② When configuring fire-rated doors, the minimum width of the hoistway is 1756, which is due to a building error of 30mm.
③ All dimensions and pit reaction load in the table are applicalbe to car additional weight within standard of HGE-Z.

Counterweight Position: Side

Load(kg) [Persons]	Speed (m/s)	Car Internal Size (mm) a x b	Door Type	Door Width (mm)	Hoistway Size (mm) X x Y	Machine Room Size S x T	Machine Room Reaction Load (kN)			Pit Reaction Load (kN)			
							R1	R2	R5	R3	R4	R6	R7
544 [8]	1.0	1300 x 1100	2P-CO	800	1960 x 1500	1960 x 1900	48	31	-	95	82	29	3
	1.5						50.5	32	-	101	88	34	5
	1.75												
	1.0	1100 x 1300	2P-CO	800	1790 x 1650	1790 x 1900	48.5	30	-	95	82	29	3
	1.5						51	31.5	-	101	88	34	5
884 [13]	1.0	1100 x 2000	2P-CO	800	1960 x 2400	1960 x 2400	67.6	40.2	5.5	135	113	42	3
	1.5						70.4	42.1	5.5	145	123	50	5
	1.75				2000 x 2400	2000 x 2400	77	48	6	165	145	60	7
	2.0						78	55	7	195	165	65	7
	2.5												
	1.0	1100 x 2000	2S-2P	800	2030 x 1930	2030 x 1930	67.6	40.2	5.5	135	113	42	3
	1.5						70.4	42.1	5.5	145	123	50	5
	1.75				2050 x 1950	2050 x 1950	77	48	6	165	145	60	7
	2.0						78	55	7	195	165	65	7
	2.5												
	1.0	1100 x 2000	2P-CO	900	2030 x 1930	2030 x 1930	67.6	40.2	5.5	135	113	42	3
	1.5						70.4	42.1	5.5	145	123	50	5
	1.75				2050 x 1950	2050 x 1950	77	48	6	165	145	60	7
	2.0						78	55	7	195	165	65	7
	2.5												
952 [14]	1.0	1100 x 2100	2P-CO	900	1960 x 2500	1960 x 2500	67.6	40.2	5.5	135	113	42	3
	1.5						70.4	42.1	5.5	145	123	50	5
	1.75				2000 x 2500	2000 x 2500	77	48	6	165	145	60	7
	2.0						78	55	7	195	165	65	7
	1.0	1100 x 2100	2S-2P	900	1745 x 2570	1745 x 2570	67.6	40.2	5.5	135	113	42	3
	1.5						70.4	42.1	5.5	145	123	50	5
	1.75				1800 x 2570	1800 x 2570	77	48	6	165	145	60	7
	2.0						78	55	7	195	165	65	7
	2.5												
1020 [15]	1.0	1100 x 2200	2P-CO	900	2000 x 2570	2000 x 2570	67.6	40.2	5.5	135	113	42	3
	1.5						70.4	42.1	5.5	145	123	50	5
	1.75				2000 x 2600	2000 x 2600	77	48	6	165	145	60	7
	2.0						78	55	7	195	165	65	7
	1.0	1100 x 2200	2S-2P	900	1745 x 2670	1745 x 2670	67.6	40.2	5.5	135	113	42	3
	1.5						70.4	42.1	5.5	145	123	50	5
	1.75				1800 x 2670	1800 x 2670	77	48	6	165	145	60	7
	2.0						78	55	7	195	165	65	7
	2.5												

Car design variations

Items	Finishes/Types	Standard	Option
Ceiling	RF-081	●	
	RF-013/018/056/084, CE-015, DP-016 RF-013A/056A/081A, CE-015A		○
Side wall/Rear wall/Car door	Painted steel	●	
	Stainless steel hairline		○
	Stainless steel hairline (Titanium Gold)		○
	Stainless steel mirror		○
	Stainless steel mirror (Titanium Gold)		○
Front wall/Car Transom	Painted steel	●	
	Stainless steel hairline		○
	Stainless steel hairline (Titanium Gold)		○
	Stainless steel mirror		○
	Stainless steel mirror (Titanium Gold)		○
Handrail	AA-Y138, HR-M037, HR-M050, AA-BS		○
Floor	A-26	●	
	S-033, S-048, S-693, FL-P008, FL-P009		○
Car sill	Aluminum	●	
Car operating panel	OPM-322 (Dot Matrix), GOP-199 (Dot Matrix)	●	
	OPM-322 (Segment LED), GOP-198, OPM-221, GOP-68, GOP-199 (Monochrome LCD), GOPR-820, GOP-678		○
Horizontal Car Operating Panel	GOP-610, GOPC-520		○
Button	WL-MO	●	
	FL-PW, GL-MB, WL-MWB, XL-MO, XL-MBA, HL-PWA, XL-PO, XL-PWA, WL-MW		○

Hall design variations

Items	Finishes/Types	Standard	Option
Jamb type	AS-1X	●	
Jamb finish	Painted steel	●	
	Stainless steel hairline		○
	Stainless steel hairline (Titanium Gold)		○
	Stainless steel mirror		○
	Stainless steel mirror (Titanium Gold)		○
Landing door/ Landing transom	Painted steel	●	
	Stainless steel hairline		○
	Stainless steel hairline (Titanium Gold)		○
	Stainless steel mirror		○
	Stainless steel mirror (Titanium Gold)		○
Landing sill	Aluminum	●	
Hall operating panel	VIB-322/322W (Dot Matrix)	●	
	VIB-820, VIB-187A, VIB-221, VIB-68, HB-68, HB-820, HB-187A, HB-658-01, HBC-820, HBC-20A		○
Button	WL-MO	●	
	FL-PW, GL-MB, WL-MWB, XL-MO, XL-MBA, HL-PWA, XL-PO, XL-PWA, WL-MW		○
Hall lantern	GHL-668, GHL-820, GHL-20A, GL-BS, GHL-636		○
Hall indicator (Horizontal)	GHI-575, GHI-675		○

Standard Functions

Control Mode			
SA1	Simplex Full Collective Control	SA2	Floor Height Self Measurement
SA3	On-Cage (Car Top) Maintenance Operation	SA4	In-Cage Maintenance Opn
SA5	Machine-room Debug Operation Function		
System Protection			
SB1	Over-speed Electrical Protection	SB2	Over-speed Mechanical Protection
SB3	Rope Slipping Running Protection	SB4	Motor Overload (Thermal) Protection
SB5	Automatic Fault Detection	SB6	Automatic Fault Recording
SB7	Standby Regular Auto-Check	SB8	Double Brake-Safety Detection
SB9	Synchronous Motor Magnetic Pole Code Self-learning	SB10	Lift-Position Abnormity Auto-Correction Function
SB11	Nearest Landing Operation	SB12	Anti-electromagnetic Interference
Secure Communication			
SC1	Interphone System (3 Ways: In-cage, On-cage, Machine Room)	SC2	Pit Interphone
Passenger Safety			
SD1	Out of Door-Open Zone Alarm	SD2	Alarm System
SD3	Door Safety Return System	SD4	Full load Bypass Operation
SD5	Overload Detection System	SD6	Overload Alarm
SD7	Next Drive (Door Open Abnormity)	SD8	Automatic Door Dwell Time Adjustment
SD9	Automatic Door Open Time Control	SD10	Door Opening/Closing Time Abnormity Protection
SD11	Number of Runs Indicator	SD12	Multi-beam Protection
SD13	Intelligent Auxiliary Braking Operation	SD14	Overload Indicator (In Car)
Emergency Response			
SE1	Car Emergency Lighting	SE2	Fire Emergency Operation (Automatic)
SE3	Automatic Rescue Device (ARD) ^[Note 2]		
Comfortable and Considerate			
SF1	Parking Operation	SF2	Automatic Return Function
SF3	Starting Torque Auto-Adjustment	SF4	Door-Stop Function (Maintenance)
SF5	Car Fan Auto Turn-off	SF6	Car Light Auto Turn-Off
SF7	Step-less Speed Control	SF8	Micro Levelling (Travel≥45m)
SF9	Advance Door Opening (speed ≥ 120m/min and travel ≥ 45m)	SF10	Opposite Direction Car Call Cancellation
SF11	Mischievous Call Cancellation	SF12	Maintenance Indication in Hall Indicator ^[Note 1]
SF13	Car Floor Button Flashing	SF14	Landing and Car Door Switch Bypass Detection
SF15	Voice Synthesizer ^[Note 2]		

[Note 1] This function is applicable to the hall calling box with display.
[Note 2] This function is for IS 14665.

Optional Functions

Control Mode			
OA1	Duplex Full Collective Control	OA2	FI-10 Group Control ^[Note 1]
OA3	Independent Automatic Operation ^[Note 2]		
Secure Communication			
OB1	Interphone System (5-way: Monitor Room, Machine Room, In-cage, Car Top, Pit))		
Passenger Safety			
OC1	Hitachi Smart Security [ITM] Interface ^[Note 3] ^[Note 7]	OC2	Contact at Control Panel (RS485)
OC3	Multi-Beam + Safety Edge Protection	OC4	Twisted Pair Cable for CCTV Interface
OC5	Supervisory Panel (Dry Contact Type)	OC6	Contact at Control Panel (Dry Contacts)
OC7	Twisted Pair Cable for BGM Interface	OC8	IC Card Security System (In Car) ^[Note 3]
OC9	Hitachi Smart Security [ITM] system ^[Note 3] ^[Note 7]		
Emergency Response			
OD1	Fireman Operation		
Comfortable and Considerate			
OE1	Attendant Operation	OE2	Independent Operation
OE3	Arrival Chime (Car Top & Bottom)	OE4	Handicapped OPB ^[Note 4]
OE5	Car Call Deselect Function	OE6	Hall Indicator Signal Lamp ^[Note 5]
OE7	Hall Call Registration in OPB ("Hall Call Registration" is mostly selected together with "Attendant Operation")	OE8	Advance Door Opening (speed < 120m/min or travel < 45m)
OE9	Braille Button	OE10	Micro Levelling (travel < 45m)
OE11	Sub-Operation Panel	OE12	Abnormal Duration Hall Call Detection
OE13	Overload Hall Call Restore	OE14	Door Nudging Operation (Multi-Beam + Safety Edge Protection must be selected at the same time)
OE15	Hall Call Deselect Function ^[Note 6]	OE16	Door Opening by Current Floor Car Call ^[Note 8]
OE17	Car Call Quick Door Closing ^[Note 9]		

[Note 1] FI-10 can handle group control of 4 elevators.
[Note 2] This function is suitable for duplex and FI-10 group management control. Each elevator can figure this function, but the elevator with this function should be equipped with a single-control calling panel in addition.
[Note 3] IC Card Security System (In Car), Hitachi Smart Security [ITM] Interface and Hitachi Smart Security [ITM] system can't be selected at the same time.
[Note 4] The Handicapped OPB shall be of GOP-610 (only for ≤ 36 landings) or GOP-671 (for ≤ 48 landings. See Brief Guide for GOP-671 Handicapped OPB - SW00003144 for details), and shall not be operated when the load is 630kg.Please refer to the Guidelines for the Design and Business of Barrier-free Elevators (SW00003134) for specific guidelines on handicapped OPBs.
[Note 5] This function is applicable to the hall calling box with display, which can display the status of "full" and "maintenance".
[Note 6] This function is suitable for simplex, duplex and FI-10 group management control, and only supports long press to cancel.
[Note 7] This function is applicable to single control, parallel connection and FI-10 group control.
[Note 8] This function can open the hall door and the car door through the call button in the car on the current floor, which improves the convenience for customers to use the elevator.When the elevator is in normal operation state and stops in the door opening area, people can press the car calling button on the current floor to open the door of the elevator.The elevator chooses to open the front entrance or rear entrance according to the type of car call.Long press the car calling button on the current floor. The elevator keeps the door opening state. When the car calling button on the current floor is released, the elevator door will close immediately.When the elevator detects that the call button of the car on the current floor is stuck, the door cannot be opened for the current floor call.
[Note 9] This function can improve the efficiency of customers taking elevators.When the elevator door opens and waits, if there is a new car call command, the elevator door opening waiting time is cleared and the door is closed immediately, reducing the time that passengers wait for the elevator door to close.The door closing priority of the internal call immediate door closing command is lower. During the door closing process, if the light curtain or touch panel works, and the current floor external call button or door open button is pressed, the elevator will reopen the door.This function can be turned on or off through the on-site specification sheet.

No.	Load (kg)	Speed (m/s)	Supply Voltage	Circuit Breaker Capacity (A)		Transformer Capacity (kVA)		Main Power Wire Size (mm²)		Earth Wire Size (mm²)		Machine Room Ventilation		
				1 unit	2 units	1 unit	2 units	1 unit	2 units	1 unit	2 units	Calorific Value (J.10³/h)	Ventilation Quantity (m³/h)	Fan Dimension (Φmm)
1	476	1.0	3Φ415V 1Φ230V 50Hz	40	40	6	10	6	8	6	8	2.8	331	200
2		1.5		40	40	7	12	6	8	6	8	4.3	492	200
3		1.75		40	40	8	13	6	10	6	10	5.0	572	250
4	544	1.0		40	40	7	12	6	8	6	8	4.0	460	200
5		1.5		40	50	9	16	8	10	8	10	5.9	685	250
6		1.75		40	50	10	17	8	16	8	16	6.9	797	250
7	680/748	1.0		40	40	8	14	6	10	6	10	5.2	599	250
8		1.5		40	63	11	18	8	16	8	16	7.1	894	250
9		1.75		40	63	12	20	10	25	10	16	9.1	1041	300
10		2.0		50	63	13	25	16	25	16	16	10.4	1188	300
11	884	2.5		50	80	16	25	25	30	16	16	13.0	1483	300
12		1.0		40	50	9	14	8	10	8	10	5.7	653	250
13		1.5		40	63	11	20	10	25	10	16	8.5	974	300
14		1.75		40	63	13	21	10	25	10	16	9.9	1135	300
15		2.0		50	63	13	25	16	30	16	16	11.3	1296	300
16	884(deep)\ 952(deep)\ 1020\ 1020(deep)	2.5		50	80	16	26	25	30	16	16	14.1	1617	300
17		1.0		40	50	9	16	8	16	8	16	6.6	760	250
18		1.5		50	63	13	20	10	25	10	16	9.9	1135	300
19		1.75		50	63	14	25	16	25	16	16	11.6	1322	300
20	1156	2.0		80	80	16	25	16	30	16	16	13.2	1510	300
21		2.5		80	100	20	32	25	30	16	16	16.5	1885	350
22		1.0		50	50	10	16	8	16	8	16	7.2	831	250
23		1.5		50	63	13	21	10	25	10	16	10.8	1242	300
24		1.75		50	80	16	25	16	30	16	16	12.7	1447	300
25	1292	2.0		80	80	16	26	25	30	16	16	14.5	1653	300
26		2.5		80	100	20	32	25	35	16	16	18.1	2063	350
27		1.0		80	80	11	20	10	25	10	16	8.5	974	300
28		1.5		80	80	16	25	16	25	16	16	12.7	1456	300
29		1.75		80	80	16	32	16	30	16	16	14.9	1697	300
30	1564	2.0		80	100	20	32	25	30	16	16	17.0	1938	350
31		2.5		80	125	25	40	25	35	16	16	21.2	2421	350
32		1.0		80	80	13	20	10	25	16	16	10.1	1153	300
33		1.5		80	80	16	32	16	30	16	16	15.1	1724	300
34		1.75		80	100	20	32	25	30	16	16	17.6	2010	350
35		2.0		80	100	21	40	25	35	16	16	20.1	2296	350
36		2.5		80	125	25	50	30	50	16	25	25.1	2867	400

Note:
① The above information on the Supply Voltage, Circuit Braker Capacity (A), Transformer Capacity (kVA), Main Power Wire Size (mm²) and Earth Wire Size (mm²) are the requirements at building side.
② The main power wire size specified above is applicable for wire length less than 150m. For main power wire length more than 150m, please calculate using the following formula: Main power wire size (mm²) = [Actual wire length / 150] x [Wire size in above table].

Service Floors

In some cases, only some of elevators are arranged to stop at the basement floor or the roof floor. This is not recommended unless the customers have a special requirement, because of the following reasons.

- (1) Since none of the other elevators stops at the basement or the roof floor, passengers in these elevators have to transfer to the elevator that stops at such particular floors.
- (2) Not only the efficiency of service to such particular floors declines but also the overall efficiency is affected.

Unification of Base Floor for Elevators in a Group

When the entrances of a building are set on different floors such as ground floor and B1, please do not set both the ground and B1 as the base floors for elevators in a group.

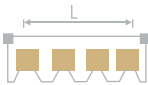
Arrangement of Elevators

In order to realize a good service in a group of elevators, the following points shall be considered.

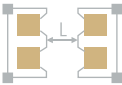
- (1) Maximum number of inline arrangement is four.
- (2) If there are four elevators, please adopt the face-to-face setting and keep the distance of 3.5 m to 4.5 m in between.
- (3) For the convenience of elevators being visible from all positions, please avoid placing elevator entrance near pillars.

Multiple Elevators in One Group

Desirable Examples

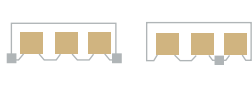


In-line arrangement
Distance, L ≤ 8 m

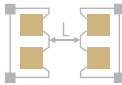


Face-to-face arrangement,
Distance, L=3.5–4.5 m

Undesirable Examples



Pillar at lift lobby
or entrance



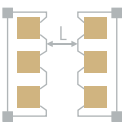
Distance, L > 5 m

Multiple Elevators in Two or More Groups

Desirable Examples



High zone
Low zone



High zone Low zone



High zone Low zone

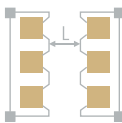
Distance, L ≥ 6 m

Distance, L = 3.5–4.5 m

Undesirable Examples



Set the elevators of
different zones in line



High zone Low zone

Distance, L < 4.5 m
The elevators of
different zones set
face-to-face with
short distance.

Note

A. Working environment of elevators

- Ambient temperature shall be between 5°C to 40°C.
- Maximum relative humidity is 90%, in the meanwhile the monthly mean of minimum temperature should be below 25°C.
- Supply voltage fluctuation shall not be more than 15%.
- Surrounding environment shall be free from explosive & corrosive hazard, anti-insulation and conductive particles atmosphere.

B. Hoistway

- Hoistway walls (including perimeter beam) shall be vertical, and the allowable deviation for wall's verticality is:
 Hoistway height ≤ 30 m: 0 –+ 25 mm
 30 m < Hoistway height ≤ 60 m: 0 + 35 mm
 Hoistway height > 60 m: 0 + 50 mm
- Hoistway walls shall be minimum 200 mm concrete walls.
- Elevator hoistway is preferably not located in the space above accessible area. If the actual situation can not meet the regulations, please consult us.
- If elevator hoistway is of steel structure construction, please contact us.
- Machine room and hoistway walls, floors and roofs should be able to absorb operation noise of a large number of elevators. Machine room and hoistway should not be located directly adjacent to bedroom, classroom, ward or library space. Where such arrangements need to be imposed, building contractors must be responsible for taking measures of sound insulation and cushioning.

C. Work to be done by building contractors

The preparatory work for elevator installation outlined below shall be undertaken by building contractors in accordance with Hitachi drawings and applicable national or local codes and regulations.

- Prepare hoistway with proper framing and enclosure, suitable pit of proper depth with drains and water proofing if required, properly lighted and ventilated machine room of adequate size with concrete floors, access doors, ladders and guards as required.
- Provide and/or cut all necessary holes, chases, and openings and finish after equipment installation.
- Supply and secure all supports, reinforced concrete slabs, etc., necessary for installation of machinery, doors, buffers, etc.
- Furnish all necessary cement and/or concrete for grouting in of brackets, bolts, machine beams, etc.
- Prepare and erect suitable scaffolding and protective measures for works in progress.
- Furnish three-phase electric power and single-phase lighting supply to machine room, following the instructions of Hitachi on outlet position and wire size.
- Provide, free of charge, a suitable theft-free storage area for materials and tools during erection work.
- Supply electric power for lighting of work area, installation work, elevator testing and spray painting.
- Provide suspension hook for loading shown in this catalogue at top of the machine room.

[illegible]

Note

[illegible]

Note

[illegible]