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ELEVATORS



NIPPON LIFT CORPORATION PTE LTD

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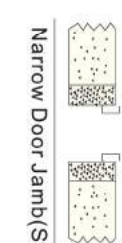
We reserve the right to alter some of specifications and descriptions given here in without prior notices

NIPPON LIFT CORPORATION PTE LTD

Complete Solutions

Landing Door Style

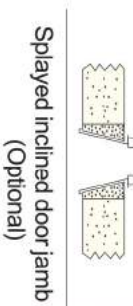
In order to make the environment more beautiful, the decoration of the door and jamb is according to the building's style.



Narrow Door Jamb(Standard)



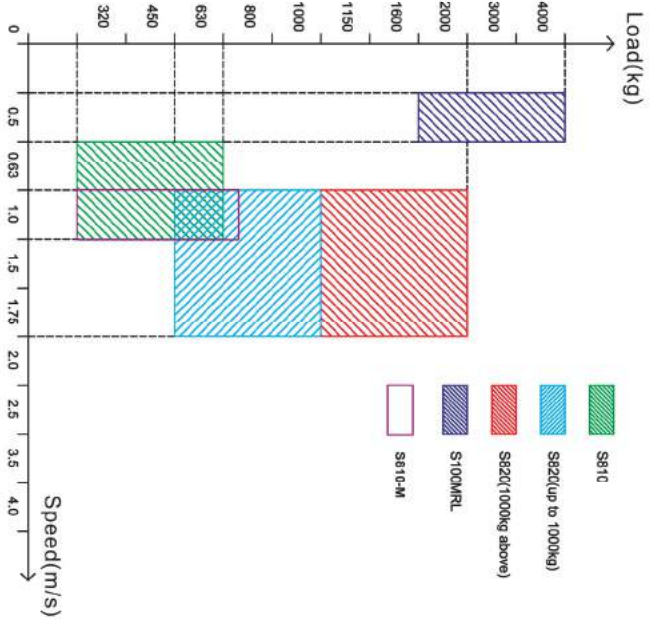
Splayed vertical door jamb
(Optional)



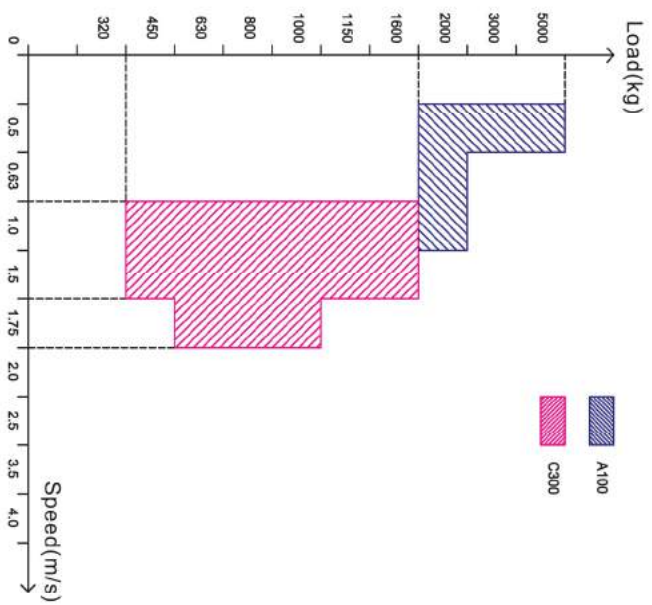
Splayed inclined door jamb
(Optional)



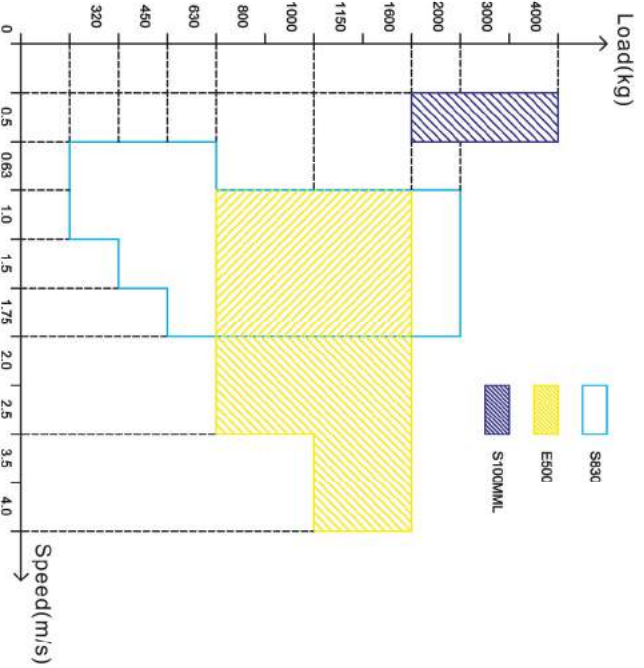
Machine Room-less (Gearless)



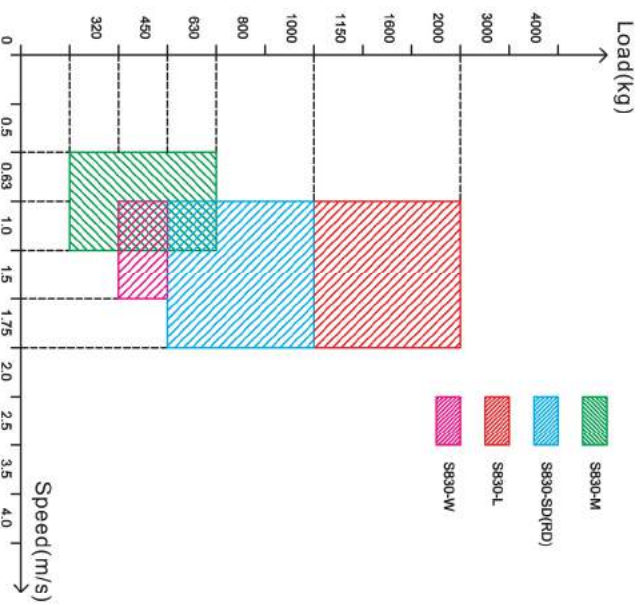
Machine Room Above (Geared)



Machine Room Above Gearless



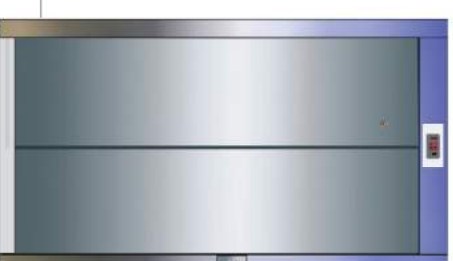
Machine Room Above (S830)



Square door jamb (standard for S810 & S830-M)



(Standard)



(Optional)



* Actual product might differ from pictures.

Car Style

Standard car

Wide Car

CEILING: TH105
CAR WALL: Painted Steel Panel (RAL7035)
CAR DOOR: Painted Steel Panel (RAL7035)
FLOOR: PVC



Deep Car

CEILING: TH103
CAR WALL: Painted Steel Panel (RAL7035)
CAR DOOR: Painted Steel Panel (RAL7035)
FLOOR: PVC



Optional car

Classical Series

JR-001 (Wide Car)

CEILING: SC-101
(painted steel + acrylic board, direction ventilation)
CAR WALL: Hairline Steel Panel
CAR DOOR: Hairline Steel Panel
FLOOR: PVC



JR-004 (Deep Car)

CEILING: SC-104
(painted steel + acrylic board, direction ventilation;
optional: emergency exit)
CAR WALL: Hairline Steel Panel
CAR DOOR: Hairline Steel Panel
FLOOR: PVC



* Actual product might differ from pictures.

Elegant Series

JC-002 (better to be Wide Car, above 630kg)

CEILING: Dark-Ti color Hairline ST/ST, White acrylic board
 CAR SIDE & REAR WALL: Etched Mirror ST/ST
 + Dark-Ti color Hairline ST/ST
 CAR FRONT WALL: Mirror ST/ST
 CAR DOOR: Mirror ST/ST
 HANDRAIL: Mirror ST, ST, Round, Rear side
 FLOOR: PVC (CP-3)
 COP/FOB: Extra height COP, Mirror ST/ST, Blue segment display

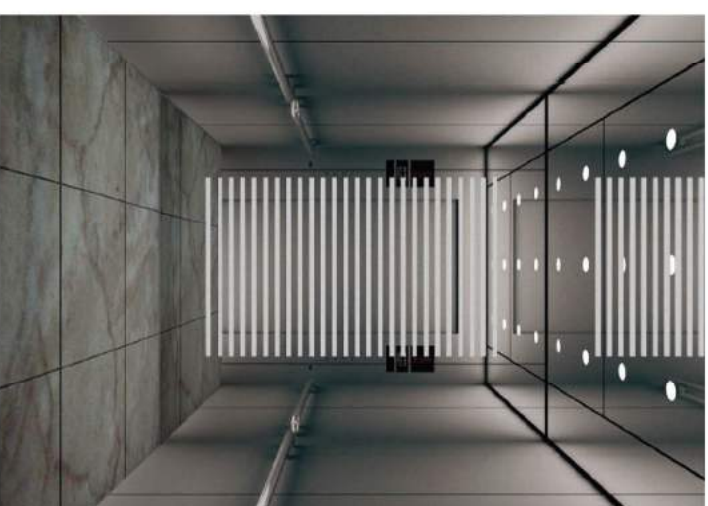
NOTE:

The acrylic board in ceiling will be divided into 2 pieces by a middle frame when CW or CD > 1600mm.



JC-003 (Wide Car / Deep Car, above 630kg)

CEILING: Mirror ST/ST, LED lamp
 CAR SIDE & REAR WALL: Etched Mirror ST/ST + Mirror ST/ST
 CAR FRONT WALL: Mirror ST/ST
 CAR DOOR: Mirror ST/ST
 HANDRAIL: Mirror ST, ST, Round, 2 sides
 FLOOR: PVC (CP-3)
 COP/FOB: One Extra height COP, Mirror ST/ST, Blue segment display



Deluxe Series

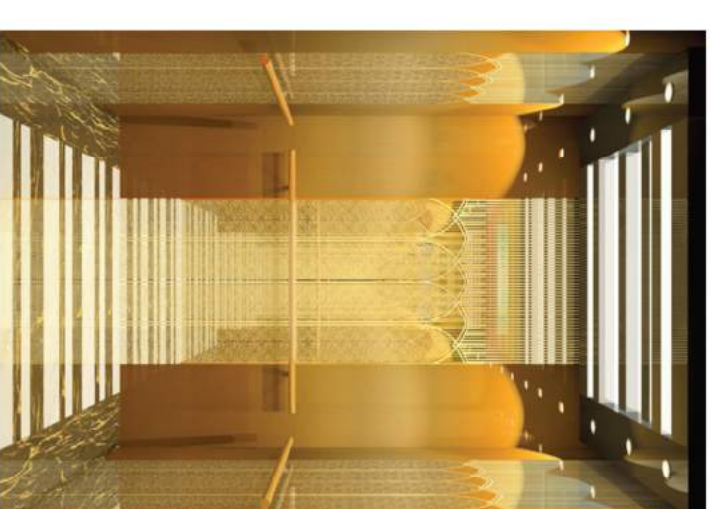
JH-001 (better to be Wide Car, above 800kg)

CEILING: Etched + Mirror ST/ST, LED lamp
 CAR SIDE & REAR WALL: Mirror ST/ST, Wood-like surface
 CAR FRONT WALL: Mirror ST/ST
 CAR DOOR: Mirror ST/ST
 HANDRAIL: None
 FLOOR: Marble
 COP/FOB: Full height, Mirror ST/ST, TFT display



JH-003 (better to be Wide Car, above 800kg)

CEILING: Golden-Ti color Mirror ST/ST, White acrylic, LED lamp
 CAR SIDE & REAR WALL: Golden-Ti color Etched + Hairline ST/ST
 CAR FRONT WALL: Golden-Ti color Hairline ST/ST
 CAR DOOR: Golden-Ti color Hairline ST/ST
 HANDRAIL: Golden-Ti color Hairline ST/ST, Round, 3 sides.
 FLOOR: Marble
 COP/FOB: Full height, Golden-Ti color Hairline ST/ST, TFT display



Observation Lift



HC-011 Square

UPPER & LOWER COVER: Painted Steel
CEILING: Mirror ST/ST, Acrylic board
CAR WALL: Mirror ST/ST, Laminated Glass
HANDRAIL: Hairline ST/ST
FLOOR: PVC (Optional: Marble)



HC-007 Semi-Circle

UPPER & LOWER COVER: Painted Steel, Lighting
CEILING: Painted Steel, Acrylic board
CAR WALL: Hairline ST/ST, Laminated Glass
HANDRAIL: Hairline ST/ST
FLOOR: PVC (Optional: Marble)



HC-012 Hexagon

UPPER & LOWER COVER: Painted Steel, Lighting
CEILING: Mirror ST/ST, Acrylic board
CAR WALL: Mirror + Etched ST/ST, Laminated Glass
HANDRAIL: Hairline ST/ST
FLOOR: PVC (Optional: Marble)



HC-010 Semi-Circle

UPPER & LOWER COVER: Painted Steel,
Quarter-Circular Acrylic Board, Lighting
CEILING: Painted Steel, Acrylic board
CAR WALL: Hairline ST/ST, Laminated Glass
HANDRAIL: Hairline ST/ST
FLOOR: PVC (Optional: Marble)

Ceiling



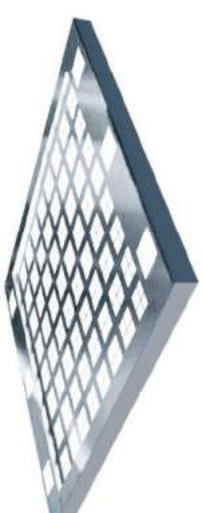
TH-105 (Standard)

Height: 70mm
Mirror ST/ST + Black painted steel + Acrylic board + lamps
Indirect ventilation



TH-103 (Optional)

Height: 70mm
Hairline ST/ST + Acrylic board + lamps
Indirect ventilation



TH-401 (Optional)

Height: 100mm
Hairline ST/ST OR Mirror ST/ST + Acrylic panel
Indirect ventilation



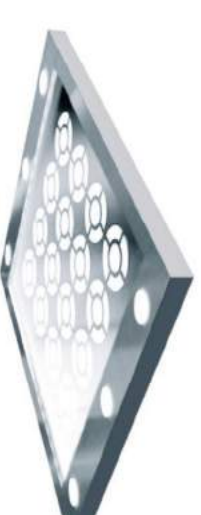
TH-402 (Optional)

Height: 100mm
Hairline ST/ST OR Mirror ST/ST + Acrylic panel
Indirect ventilation



TH-403 (Optional)

Height: 100mm
Hairline ST/ST OR Mirror ST/ST + Acrylic panel
Indirect ventilation



TH-404 (Optional)

Height: 100mm
Hairline ST/ST OR Mirror ST/ST + Acrylic panel
Indirect ventilation



SC-101 (for wide car)

Height: 100mm;
Silver gray painted steel + Acrylic panel;
Direct ventilation



SC-103 (for deep car)

Height: 100mm;
Silver gray painted steel + Acrylic panel;
Direct ventilation



SC-104

Height: 100mm;
Hairline OR Mirror ST/ST + Acrylic panel;
Direct ventilation; Emergency exit Available

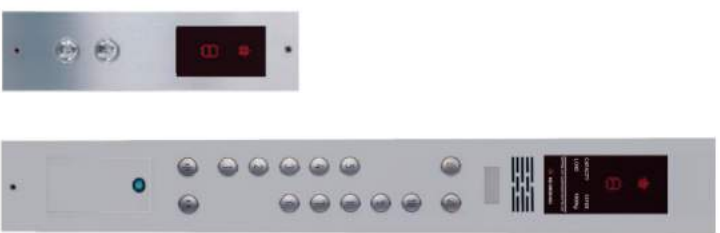


SC-203

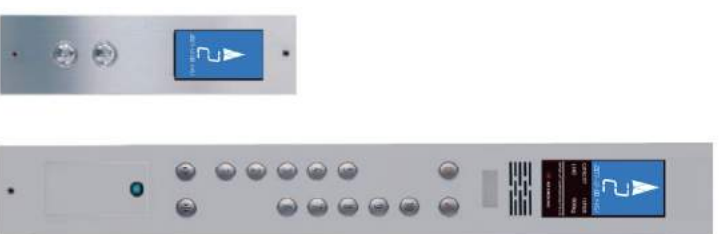
Height: 150mm;
Hairline OR Mirror ST/ST + LED lamps;
Indirect ventilation

Classic Series

Extra-Height Series



FOB320 COB320
(Hairline ST/ST, Dot-matrix LED)



FOB321 COB321
(Hairline ST/ST, Blue Segment LCD)



FOB901 COB901
(Hairline ST/ST, Dot-matrix LED)



FOB902 COB902
(Mirror ST/ST, Dot-matrix LED)



FOB310 COB310E
(Hairline ST/ST, Dot-matrix LED, COB Semi-Extruded)
(Optional: Hairline ST/ST, Blue Segment LCD, COB Semi-Extruded)



FOB330 COB330
(Hairline ST/ST, Dot-matrix LED, Semi-Extruded)



FOB331 COB331
(Hairline ST/ST, Blue Segment LCD, Semi-Extruded)



FOB903 COB903
(Hairline ST/ST, Blue Segment LCD)



FOB904 COB904
(Mirror ST/ST, Blue Segment LCD)

Full-Height Series

Display & Button

INDICATOR

For car



For landing



Dot-matrix LED (standard)

Dot-matrix LED(H) (standard)

Dot-matrix LED(V) (standard)



Blue Segment LCD



Segment LCD (H)



Segment LCD (V)

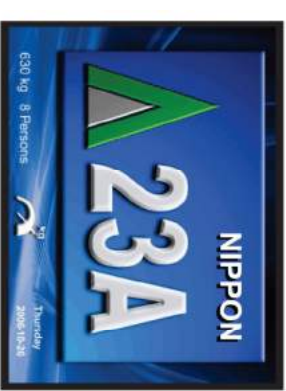
Access control manager



TFT colored LCD



4.3"



8"10"

BUTTON



RH-1(Standard)



RH-2/RH-3(Optional)



PB330(Optional)



SH-1(Optional)



SH-2/SH-3(Optional)



PB340(Optional)

HALL LANTERN



DZD-2



DZD-3

The display and buttons shall be chose in next page when using full-height series.



Car Ceiling/Handrail/Indication system

Type		Material	Specification (mm)
HC-001 (Optional)		Stainless steel, single round	∅ 38
HC-002 (Optional)		Stainless steel, double round	∅22
HC-003 (Optional)		ST/ST, flat	80×6
HC-102 (Optional)		ST/ST +Wood	∅ 38
HC-104 (Optional)		ST/ST, round	∅ 38

Car Wall & Door Materials

Standard (Painted Steel)

RAL7035	RAL7040	RAL9006	RAL9204
RAL9010	RAL1015	RAL5012	RAL5020

Optional (Stainless Steel)

HS-001 Hairline ST/ST	HS-002 Mirror ST/ST	ES-002 Etched ST/ST
ES-003 Etched ST/ST	ES-004 Etched ST/ST	ES-005 Etched ST/ST

Floor

PVC tile

Carpet-like style (PVC)

251-8	261-10	711-2	711-5

Mable-like style (PVC)

701A	CP-3	TM-7461A	1661-D25

Embossed Stone Style (PVC)

ES-2	Black	Gray

Rubber Floor

Checked Metal Floor

Checked Aluminum	Checked ST. (painted)

* Actual product might differ from pictures.

ELEVATOR Features and Functions Instruction

STANDARD PROTECTION

- Over voltage protection
Once power source voltage exceeds 120%, the motor will be protected against damages.
- Phase monitoring protection
Once power supply is short of any phase, the motor will be protected against damages.
- Motor over current protection
Once current output to motor is over a set value, the motor will be protected against damages.
- Motor overheat protection
Once motor winding temperature is over a set value, the motor will be protected against damages.
- Encoder fault protection
Once encoder has fault, the motor will stop running immediately.
- Contact adhere monitoring protection
System will monitor the contacts of contactors. If abnormal, the next running will not be allowed until the problem is resolved.
- Over speed protection
Once lift is running under over speed, lift will be stopped by electrical control system immediately.
- Anti-reversal protection
Once the running direction monitored by encoder is not same as actual running direction, lift will stop running immediately.
- Over running time protection
Once one trip running time exceeds a set time (running time for one trip from lowest floor to top floor), motor power will be cut to prevent motor working under abnormal situation.
- Terminal switch protection
Prevent the elevator from traveling beyond a terminal landing.
- Car overload protection
When car load exceeds rated load, lift will hold stop with door open at the floor and the buzzer alarms and overload lighting illuminated.

STANDARD FUNCTION

- Auto-parking
If no call during a set time, car will return to nominated main floor and wait for new calls.
- Full load no stop
When car load exceeds 80% (adjustable) of rated load, it ignores all hall calls to avoid useless stop and increase the efficiency of transportation. These ignored calls will be registered but responded in next trip (simplex) or other lift (group control)
- Door open & close time adjustment
Door open and close times are automatically adjusted depending on whether the call cause the door open and close is a car call or hall car or door call.
- Jammed hall button detection
If a hall button is jammed mechanically, this hall call will be automatically bypassed after being served once, until the problem is resolved.
- Next landing
When lift arrives at a floor but the doors can't be fully opened, the lift will go to the nearest floor and open the door.
- Safe landing
When lift stops at the locking door zone by fault, lift will go to the

nearest floor under lower speed and open the door.

- Car emergency lighting
When normal lighting power supply fails, car emergency lighting on COP will be illuminated by emergency power source.
- Emergency Alarm button
When passenger trapped in car, press the button, the buzzer will alarm.
- Intercom system
This system allows the intercommunication between car, car top and pit to machine room (controller) or supervisor's room.
- Fault record
Controller will record latest 11 faults information include fault code, time and floor, and it will record the details of last fault.
- Car fan shut Down control automatically
Car fan will be shut down automatically if no more calls are registered after a set time.
- Car fan switch on COP
Car ventilation fan could be put into or out of service by this key switch on COP. It will be cancelled when "COP Window" optional function is selected.
- Floor number setting
Each floor display number could be set by 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, G, H, L, M, P, R.

ALTERNATIVE FEATURE

- Selective collective operation
Standard: Full collective (UP & DN hall call buttons on FOB)
Option: Down collective (DN hall call button on FOB)
- Car group control
Standard: Simplex
Option: a. Duplex, b. Triplex, c. Quadruplex
- Door safety device
Standard: 2D light curtain
Option: a. 3D light curtain, b. 2D light curtain with safety edges, c. 3D light curtain with safety edges
- Hall indicator
Standard: Dot matrix LED
Option: a. Segment LCD, b. without indicator
- Hall indicator position
Standard: mixed with call buttons
Option: above door, separately (standard when EN81-70 required)
- Car indicator
Standard: Dot matrix LED indicator
Option: a. Segment LCD, b. Blue LCD (5 inch), c. Colored LCD (8 inch), d. Colored LCD (10 inch).

INTERFACE

- Remote control interface-parking shutdown
Lift could supply an input interface (dry contact) for parking function, and user could use it to park the lift and put it out of service or put it into service.
- Remote monitor interface-4 dry contacts
System could supply 4 dry contacts to output the basic signals of lift operation include AUTO, INSPECTION, FAULT and PARKING for remote monitoring.
- Video cable in car
The cable is used for video camera (by others) installed in the car.

- Audio cable in car
The cable is used for audio broadcaster (by others) installed on car top.
- RS485 interface
1 RS485 port in control panel, can monitor:

- 1) elevator travel direction, current landing.
 - 2) door status "open", "close",
 - 3) elevator status "normal", "inspection", "fire return", "trip", "attendant", "over load", "full load", "fire return", "service off", "door lock", "safe loop"
 - 4) tip code
- Nippon provide a rs485 port and protocol document.

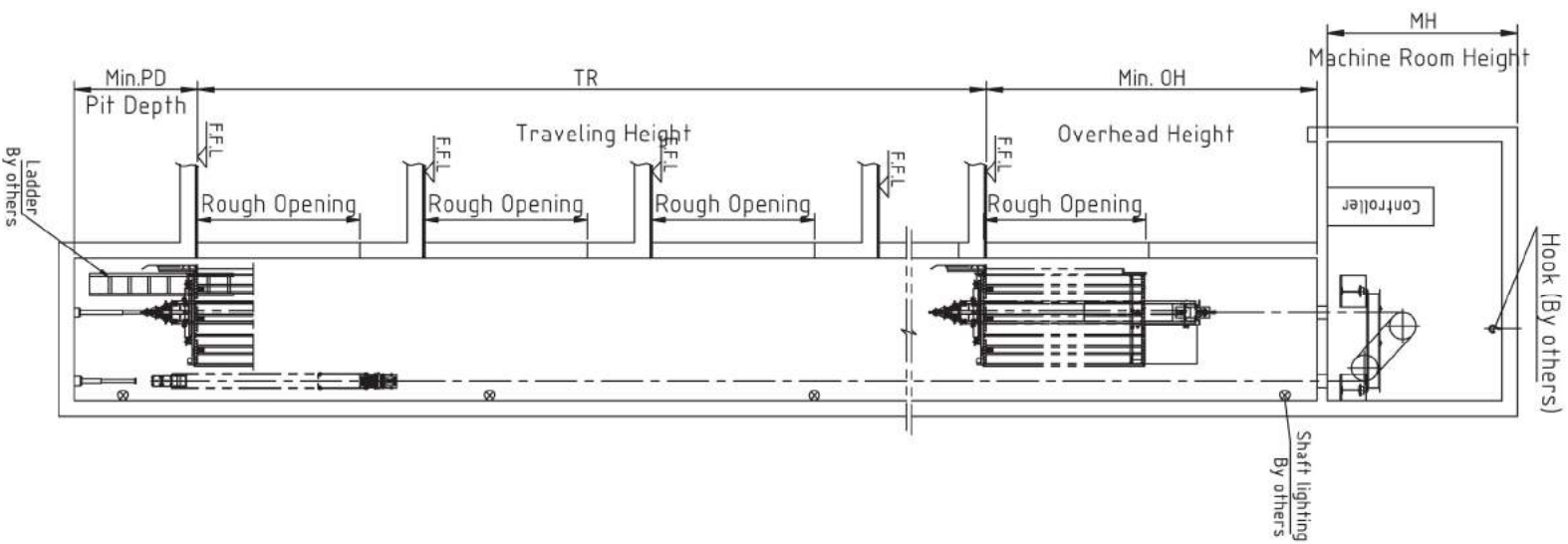
- Remote monitoring system
Monitoring system based on RS485 interface. Same monitor information as RS485 interface.
Nippon provide monitoring hardware and monitoring software in PC. Cables between elevator and monitoring room and PC by customer.

Optional Function

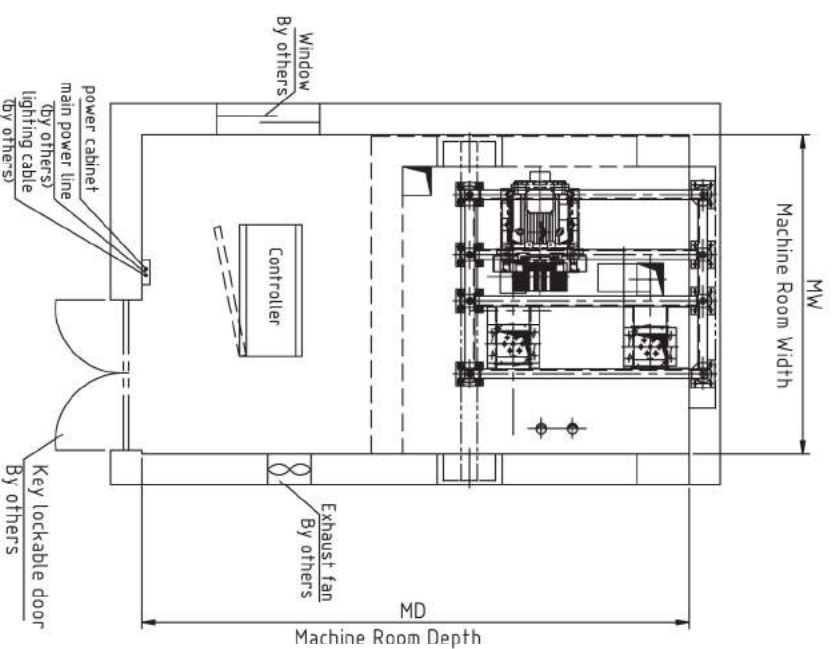
- Car emergency exit (trap door in car roof)
It is used to rescue the trapped passenger in car. It could be opened from outside of car without a key and inside with a triangle key. When this function selected, the car ceiling must be selected from TH40* series.
- Door lock circuit bypass monitoring protection
Door locks circuit will be monitored, once it is shorted, the lift will not be possible to run under "Normal" mode
- False car call canceling
False car call could be cancelled by press the same floor button twice continuously.
- Anti-nuisance operation
Once the registered car calls is more than the passenger numbers weighed by weighting device, all the car calls will be cancelled automatically.
- ARD (automatic rescue device)
When power failure, lift will go to the nearest possible floor, open the door and release the passengers automatically.
- Machine brake release lever
When power failure, the machine brake can be released by brake release lever in order to let the car go to the nearest floor.
- Locking door zone alarm
This function is a standard function for MRA. It's not available for S810.
- When lift stops at the locking doors zone by fault and can't operate Safe Landing, the buzzer will alarm.
- Power saving device -Energy feedback
This device will feedback the energy produced by lift system to the power supply when running in brake mode. It could save power about 30%~70% depends on different type and capacity of lift.
- COP window
Six buttons/switches in this window:
 - a. Independent operation switch: When IND switch turns to "ON", the lift ignores all hall calls and only responds to car call, after the lift ignores all hall calls and only responds to car call, after fully open on landing.
 - b. Door open holding button: The door keeps open for a set time (adjustable, maximum 1000S) after press this button.
 - c. Car lighting switch: turn on/off the power supply of car lighting
 - d. Car fan switch: turn on/off the power supply of car fan
 - e. Attendant operation: the lift will be operated by an attendant.
 - f. Non-stop running: Under attendant operation, press this button, lift will ignore hall calls and go to the nearest registered car call floor.
- False hall call canceling
False hall call could be cancelled by press the same call button twice continuously (in 0.5S).
- Auxiliary COP
Another COP without or with indicator in car.
- Fire return (Phase 1)
When lift receives a fire alarm signal, it will stop running and directly return to nominated floor with door fully opened and out of normal service.
Fire alarm signal could be sent by the fire return switch on nominated floor or the building fire alarm system.
System could output a signal to building fire alarm system when car returns to main floor.
- Fireman operation (Phase 1)
When fire happened, the lift will be operated by fireman(s), operation controls follow EN81-72.
This operation will be turned on by the triangle switch on nominated main floor.
- Parking shutdown switch
Two positions switch on FOB of nominated floor. On "STOP" position, all registered calls will be cancelled and the lift will go to nominated floor with door open after landing. After a set time, it will close the door and out of service. The cancelled calls will be registered on other lift (if group control). On "RUN" position, lift will turn back to service.
- Car arrival gong - on car/halls
The audible signal informs the waiting passengers of the lift arriving and next running direction (different sound for UP and DN). The gong could be amounted on car or halls. When optional function "Voice synthesizer" is selected, this function is not needed.
- Hall lantern
It indicates passengers waiting at a floor about the travel direction of arriving car.
- IC card device - car call authorizer
Only after register by IC card, the car call(s) could be registered. Which means passenger without IC card can't use the lift.
- IC card device - hall call authorizer
Only after register by IC card, the car call(s) could be registered. Which means passenger without IC card can't call the lift on this floor.
- Voice synthesizer
The system provides audio information about car operation (arriving floor & running direction) to passengers. English language as standard, if other foreign language required, voice document in MP3 format should be supplied.
- This device includes the function of "arrival gone".
Features used for handicap lift (comply with EN81-70)
- All features comply with EN81-70, but auto-dialer and intercom system should be supplied by others.
 - a. button with tactile, Braille and sound
 - b. Push button and indicator position follow EN81-70
 - c. Half height mirror (safety glass) on rear side (or by others)
 - d. Handrail on rear side
 - e. Voice synthesizer
 - f. Interface for auto-dialer and intercom
- All features must be selected together
Features used for Handicap lift (not follow EN81-70)
 - a. Half height mirror (normal glass) on rear side
 - b. Handrail(s)
 - c. Button with tactile, Braille and sound
 - d. Handrail shape COB
 - e. Voice synthesizer
- Each feature could be selected separately.

E500 Rear Counterweight

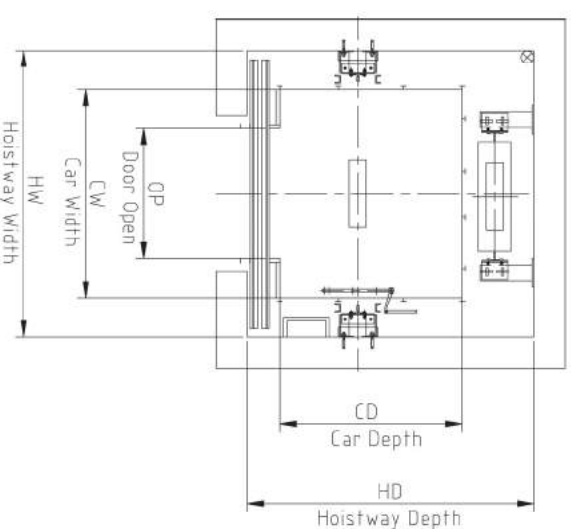
Lift Shaft-SECTION VIEW



MACHINE ROOM PLAN

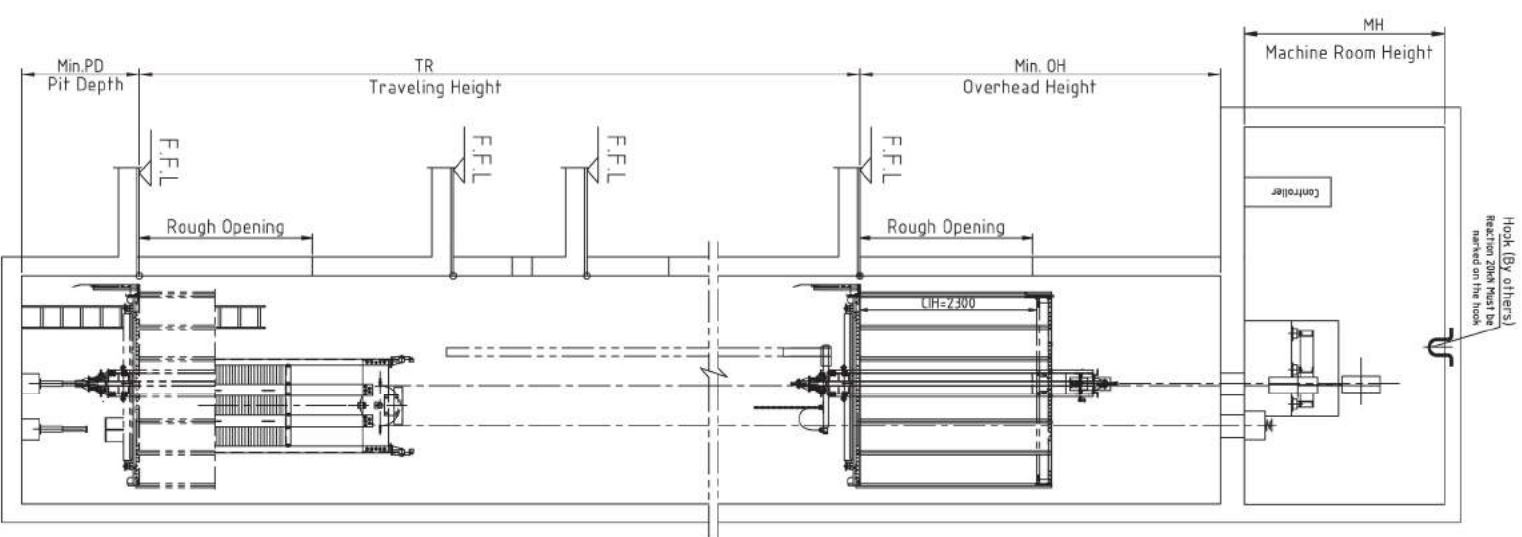


HOISTWAY PLAN

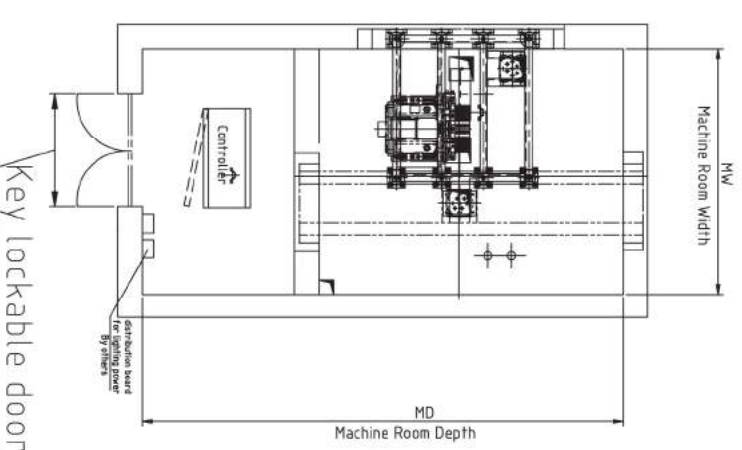


E500 Side Counterweight

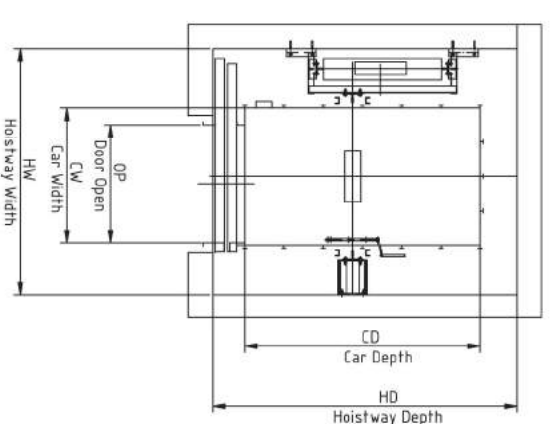
Lift Shaft-SECTION VIEW



MACHINE ROOM PLAN



HOISTWAY PLAN



PLANNING GUIDE FOR DIMENSIONS -- Deep Car 1000-1600kg -- 1-2.5mps

Speed(m/s)	Capacity		Car Size		Door Opening(mm)		Std. Hoistway Size / HWxHD (mmxmm)	
	Person	Load(kg)	CWxCD (mmxmm)	Car Size	Single Opening	Through Opening		
1.0, 1.5, 1.75, 2.0, 2.5	13	1000	1100x2100	CO 900 *	CO 800	2050x2500	2050x2600	
					SO 900 *	2050x2550	2150x2600	
	15	1150	1200x2100	CO 900 *	CO 800	2150x2500	2150x2600	
					SO 900/1000*	2250x2500	2250x2600	
	16	1250	1400x1950	CO 900	CO 900	2300x2350	2300x2450	
					CO 1000 *	2400x2350	2400x2450	
SO 1000/1100/1200 *					2300x2400	2300x2600		
CO 900					2300x2500	2300x2600		
18	1350	1400x2100	CO 1000 *	CO 1000 *	2400x2500	2400x2600		
				SO 1000/1100/1200 *	2300x2550	2300x2750		
				CO 900	2300x2800	2300x2900		
				CO 1000 *	2400x2800	2400x2900		
21	1600	1400x2400	CO 1000 *	CO 1000 *	2400x2800	2400x2900		
				SO 1000/1100/1200 *	2300x2850	2300x3050		

PLANNING GUIDE FOR DIMENSIONS -- Wide Car 800-1600kg -- 1-2.5mps

Speed(m/s)	Capacity		Car Size		Door Opening(mm)		Std. Hoistway Size / HWxHD (mmxmm)	
	Person	Load(kg)	CWxCD (mmxmm)	Car Size	Single Opening	Through Opening		
1.0, 1.5, 1.75, 2.0, 2.5	10	800	1400x1350	CO 900	CO 900	2000x2150	2000x2100	
					SO 900 *	2200x2200	2200x2150	
	13	1000	1600x1400	CO 1000	CO 1000	2400x2200	2400x2150	
					SO 1000/1100/1200 *	2550x2200	2550x2150	
	15	1150	1800x1400	CO 1000	CO 1000	2550x2200	2450x2150	
					SO 1000/1100/1200 *	2550x2300	2450x2250	
16	1250	1950x1400	CO 1100	CO 1100	2550x2300	2450x2250		
				SO 1000/1100/1200 *	2550x2500	2450x2450		
18	1350	1950x1500	CO 1100	CO 1100	2550x2300	2450x2250		
				SO 1000/1100/1200 *	2550x2500	2450x2450		
21	1600	1950x1700	CO 1100	CO 1100	2550x2500	2450x2450		
				SO 1000/1100/1200 *	2700x2700			

PLANNING GUIDE FOR DIMENSIONS -- Wide Car 1000-2000kg -- 3-4mps

Speed(m/s)	Capacity		Car Size		Door Opening(mm)		Std. Hoistway Size / HWxHD (mmxmm)	
	Person	Load(kg)	CWxCD (mmxmm)	Car Size	Single Opening	Through Opening		
2.5, 3.0, 4.0	13	1000	1600x1400	CO 1000	CO 1000	2200x2200	2050x2600	
					SO 1000 *	2400x2200	2050x2750	
	15	1150	1800x1400	CO 1000	CO 1000	2400x2200	2150x2600	
					SO 1000/1100/1200 *	2550x2200	2250x2600	
	16	1250	1950x1400	CO 1000	CO 1000	2550x2200	2300x2600	
					SO 1000/1100/1200 *	2550x2300	2300x2750	
18	1350	1950x1500	CO 1100	CO 1100	2550x2300	2450x2250		
				SO 1000/1100/1200 *	2550x2500	2450x2450		
21	1600	1950x1700	CO 1100	CO 1100	2550x2300	2450x2250		
				SO 1000/1100/1200 *	2700x2700			
26	2000	2100x1900	CO 1100	CO 1100	2700x2700			
				SO 1000/1100/1200 *				

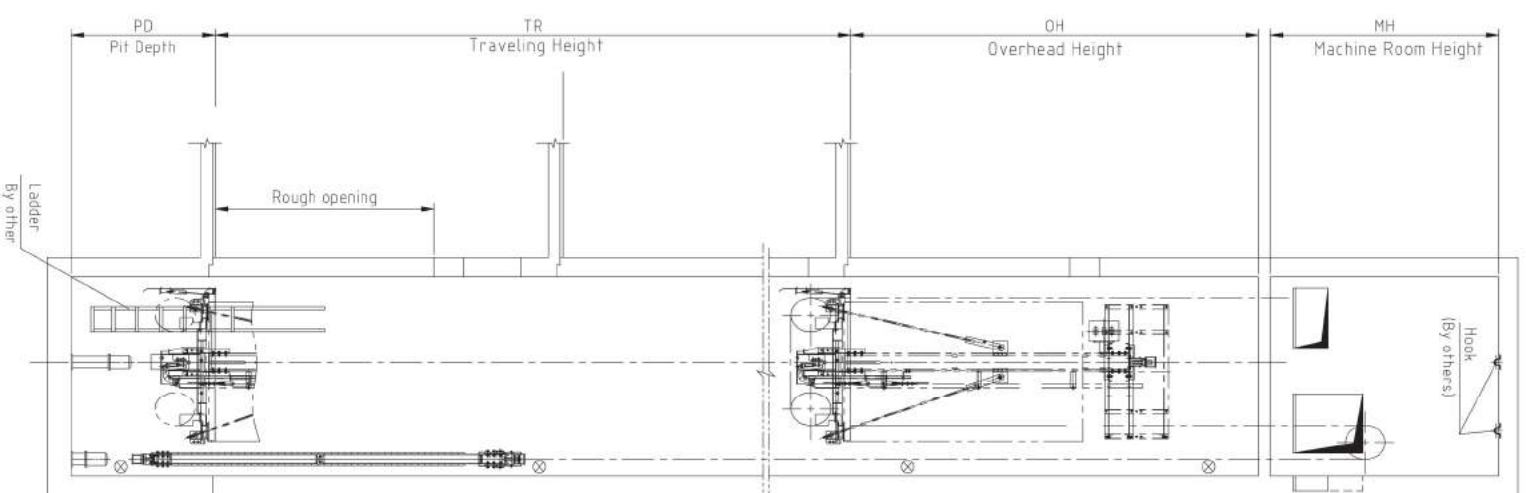
PLANNING GUIDE FOR DIMENSIONS -- OH and PIT

Speed (mm)	Max. Travel (m)	Std. OH (mm)	Min. OH (mm)	Std. PIT (mm)	Min. PIT (mm)	Car Clear Height (CH) (mm)	Door Height (mm)
1.0	40	4300	4150	1500	1450	2200 (with 100mm false ceiling)	2100
1.5	60	4400	4250	1600	1550		
1.75	75	4500	4300	1700	1600	2400 (with 150mm false ceiling)	2100
2.0/2.5	100/120	5100	4800	1900	1800		
3.0**	150	5450	5450	3350	3350	2400 (with 150mm false ceiling)	2100
3.5**	150	5550	5550	3350	3350		
4.0**	150	5650	5650	3350	3350		

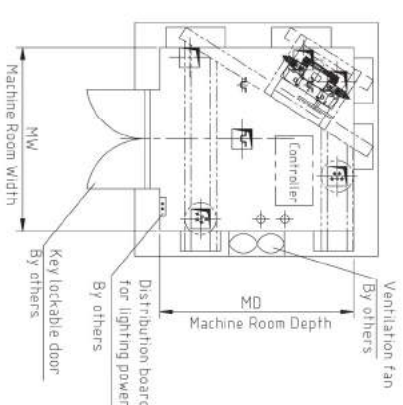
* Optional
** OH and PD increase 50mm when capacity exceeds 1350kg (3-4mps).

We reserve the right to alter some of specifications and descriptions given here in without prior notices.

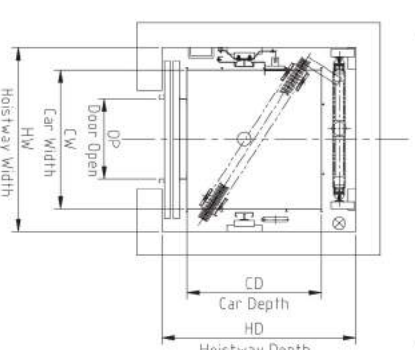
Lift Shaft-SECTION VIEW



MACHINE ROOM PLAN



HOISTWAY PLAN



PLANNING GUIDE FOR DIMENSIONS -- Wide Car - 630-1000kg

Speed(m/s)	Capacity		Car Size		Door Opening(mm)		Standard Hoistway Size / HW X HD (mm X mm)	
	Person	Load(kg)	CW X CD (mm X mm)	Car Size	Single Opening	Through Opening		
1.0, 1.5, 1.75	8	630	1200x1300	CO 700	CO 700	1650x1600	1800x1600	
					CO 800 *	1800x1600	1850x1650	
10	800	800	1400x1350	CO 800	CO 800	1850x1650	2000x1850	
					CO 900 *	2000x1850	2100x2000	
13	1000	1000	1600x1400	CO 900	CO 900	2100x2000	2200x2000	
					CO 1000 *	2200x2000		

PLANNING GUIDE FOR DIMENSIONS - OH and PIT

Speed (mm)	Max. Travel (m)	Std. OH (mm)	Min. OH (mm)	Std. PIT (mm)	Min. PIT (mm)	Car Clear Height (CH) (mm)	Door Height (mm)
1.0	40	3950	3800 **	1450	1400	2200 (with 100mm false ceiling)	2100
1.5	60	4000	3950 **	1550	1550		
1.75	75	4100	4050 **	1600	1600		

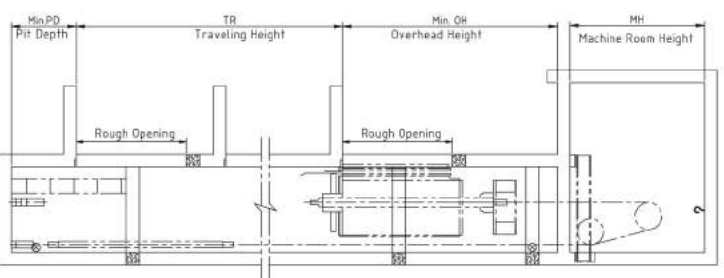
* Optional

** Min. OH bases on CH 2200mm with 70mm false ceiling.

We reserve the right to alter some of specifications and descriptions given here in without prior notices.

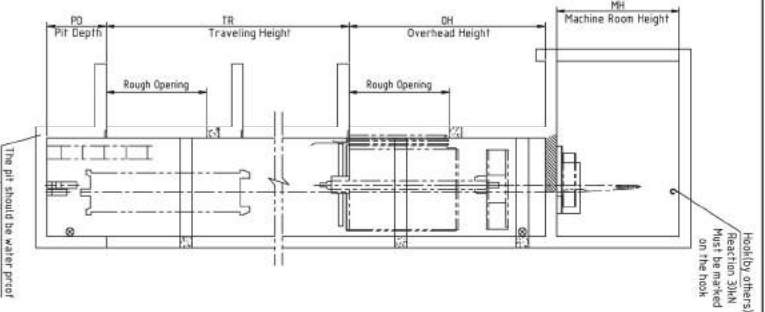
Rear Counterweight

Lift Shaft-SECTION VIEW



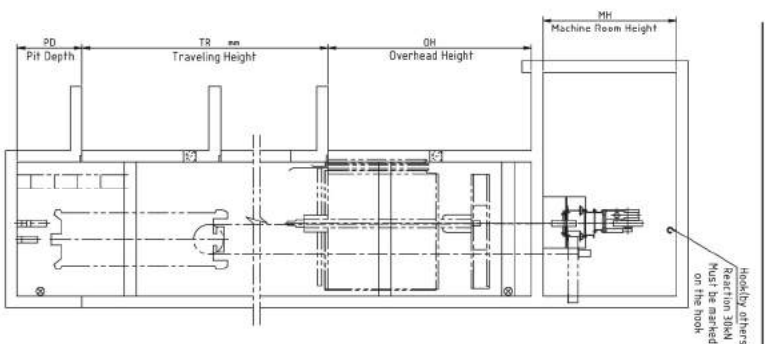
Side Counterweight
1:1 Roping

Shaft-SECTION VIEW

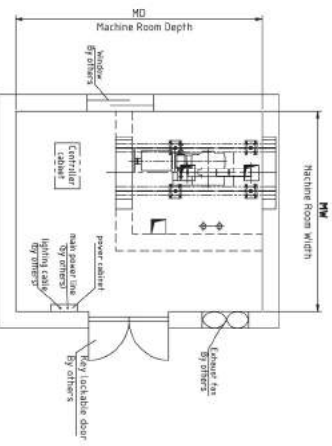


Side Counterweight
2:1 Roping

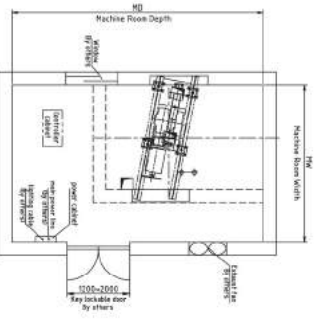
Shaft-SECTION VIEW



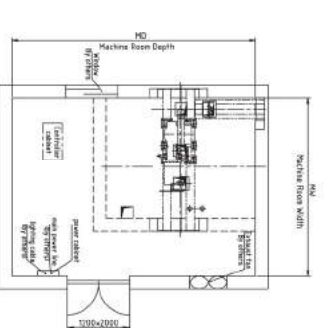
MACHINE ROOM PLAN



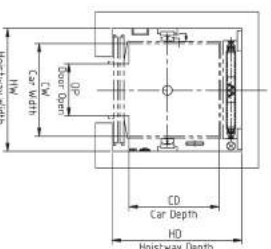
MACHINE ROOM PLAN



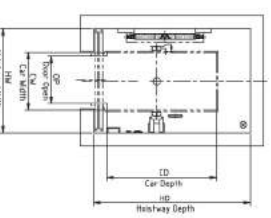
MACHINE ROOM PLAN



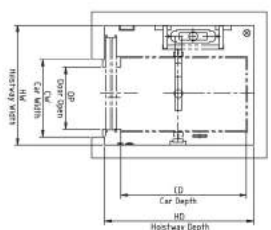
HOISTWAY PLAN



HOISTWAY PLAN



HOISTWAY PLAN



PLANNING GUIDE FOR DIMENSIONS -- Deep Car -- 800-1600kg

Speed(m/s)	Capacity		Car Size CWxCD(mm)xmm)	Door Opening(mm)	Std. Hoistway Size / HWxHD (mm)xmm)	
	Person	Load(kg)			Single Opening	Through Opening
1.0, 1.5, 1.75	10	800	1100x1700	CO 800	1950x2100	1950x2200
	13	1000	1100x2100	SO 800/900 *	1850x2150	1850x2350
				CO 800	1950x2500	1950x2600
1.0, 1.5	15	1150	1400x1800	SO 800/900 *	1850x2550	1850x2750
				CO 900	2300x2200	2300x2300
	16	1250	1400x1950	SO 1100/1200 *	2300x2250	2300x2450
				CO 900	2300x2350	2300x2450
	21	1350	1400x2100	SO 1100/1200 *	2300x2400	2300x2600
				CO 900	2300x2500	2300x2600
24	1600	1400x2400	SO 1100/1200 *	2300x2550	2300x2750	
			CO 900	2300x2800	2300x2900	
			SO 1100/1200 *	2300x2850	2300x3050	

PLANNING GUIDE FOR DIMENSIONS -- Wide Car -- 450-1600kg

Speed(m/s)	Capacity		Car Size CWxCD(mm)xmm)	Door Opening(mm)	Standard Hoistway Size	
	Person	Load(kg)			HWxHD(mm)xmm)	Standard Hoistway Size
1.0, 1.5	6	450	1100x1100	CO 700	1550x1700	
				CO 800 *	1750x1700	
				SO 800 *	1600x1770	
1.0, 1.5, 1.75	8	630	1400x1100	CO 800	1850x1700	
				CO 900 *	2000x1700	
	10	800	1400x1350	SO 900 *	1850x1770	
				CO 800	1850x1950	
	13	1000	1600x1400	CO 900 *	2000x1950	
				SO 900 *	1850x2020	
15	1150	1800x1400	CO 900 *	2050x2000		
			CO 1000 *	2200x2000		
			SO 1000/1100 *	2050x2070		
1.0, 1.5	16	1250	1950x1400	CO 1100	2400x2100	
				SO 1100/1200 *	2550x2100	
				CO 1100	2550x2200	
1.0, 1.5	18	1350	1950x1500	CO 1100	2550x2200	
				SO 1100/1200 *	2550x2200	
				CO 1100	2550x2400	

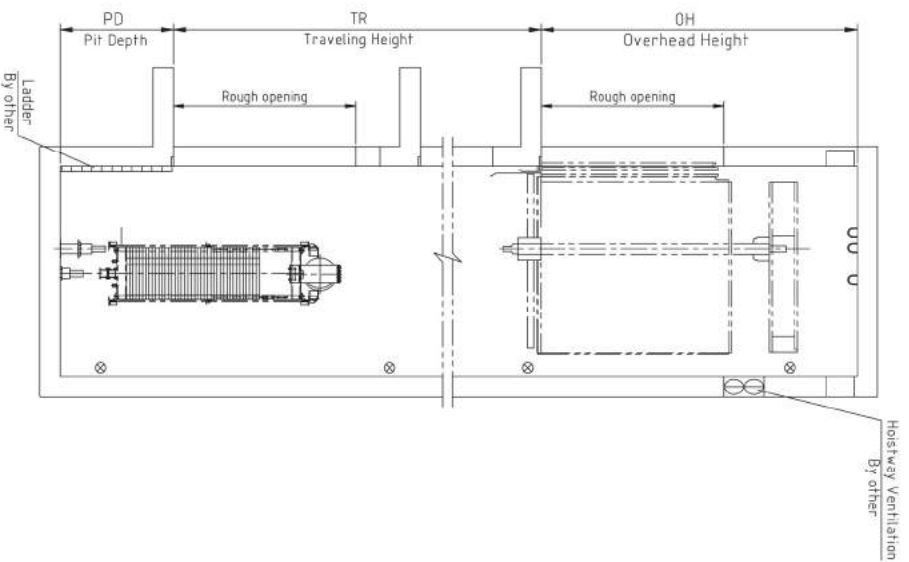
PLANNING GUIDE FOR DIMENSIONS -- OH and PIT

Capacity (kg)	Speed (mm)	Max. Travel (m)	Std. OH (mm)	Min. OH (mm)	Std. PIT (mm)	Min. PIT (mm)	Car Clear Height (CIH) (mm)	Door Height (mm)
450-1000kg	1.0	40	4300	3800	1300	1300	2200 (with 100mm false ceiling)	2100
	1.5	60	4400	3900	1400	1400		
630-1000kg	1.75	75	4500	4000	1500	1400	2200 (with 100mm false ceiling)	2100
	1.0	40	4400	3900	1500	1500		
1150-1600kg	1.5	60	4500	4000	1800	1800	2200 (with 100mm false ceiling)	2100
	1.5	60	4500	4000	1800	1800		

* optional

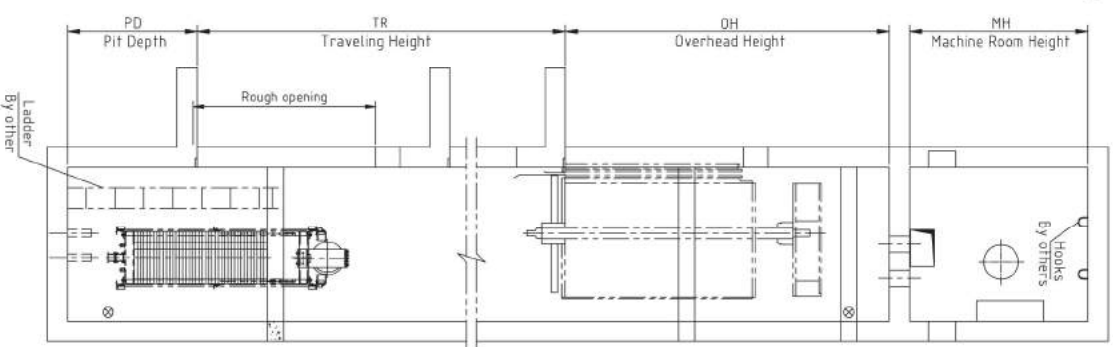
Lift Shaft-SECTION VIEW

S820

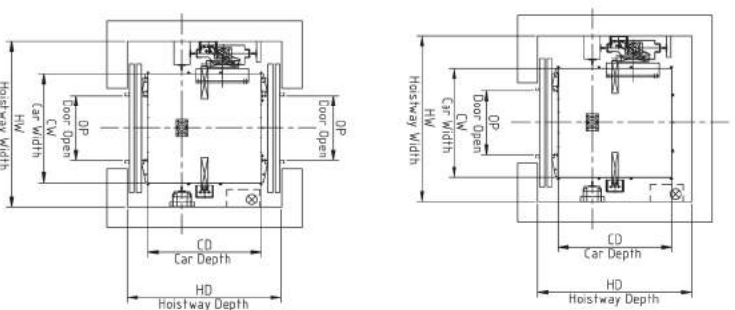


Lift Shaft-SECTION VIEW

S830-SD

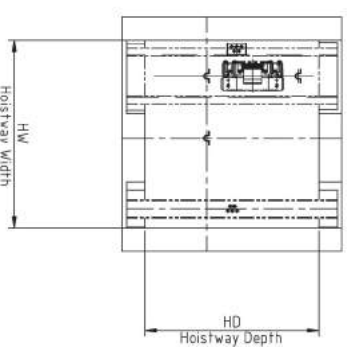


HOISTWAY PLAN



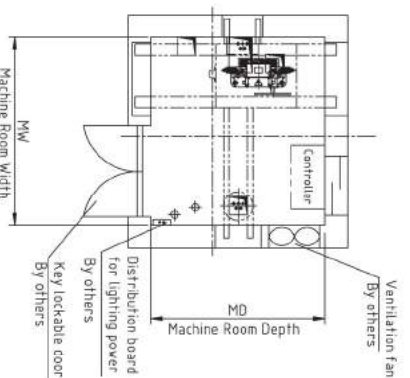
MACHINE ROOM PLAN

S820



MACHINE ROOM PLAN

S830-SD



PLANNING GUIDE FOR DIMENSIONS -- Deep Car -- 630-1000kg

Speed(m/s)	Capacity	Car Size	Door Opening(mm)	Single Opening		Through Opening			
				Std. Hoistway Size	Min. Hoistway Size	Std. Hoistway Size	Min. Hoistway Size		
1.0, 1.5, 1.75	Person	Load(kg)	CWxCD (mmxmm)	CO 800	HWxHD (mmxmm)	HWxHD (mmxmm)	HWxHD (mmxmm)		
					1850x1850	1750x1750 **	1850x1900	1750x1900 **	
					2000x1850	1950x1750	2000x1900	1950x1900	
	8	630	1100x1400	CO 900 *	1750x1850 ***	1700x1825	1750x2050 ***	1700x2050	
					SO 800/900 *	1850x2150	1750x2050	1850x2200	1750x2200
					CO 800	2000x2150	1950x2050	2000x2200	1950x2200
	10	800	1100x1700	CO 900 *	1750x2150 ***	1700x2125	1750x2350 ***	1700x2350	
					SO 800/900 *	1850x2550	1750x2450	1850x2600	1750x2600
					CO 800	2000x2550	1950x2450	2000x2600	1950x2600
					CO 900 *	1750x2550 ***	1700x2525	1750x2750 ***	1700x2750
13	1000	1100x2100	CO 1100 *	2400x1850	2350x1750	2400x1900	2350x1900		
				SO 800/900 *	1750x2550 ***	1700x2525	1750x2750 ***	1700x2750	

PLANNING GUIDE FOR DIMENSIONS -- Wide Car -- 630-1000kg

Speed(m/s)	Capacity	Car Size	Door Opening(mm)	Single Opening		Through Opening			
				Std. Hoistway Size	Min. Hoistway Size	Std. Hoistway Size	Min. Hoistway Size		
1.0, 1.5, 1.75	Person	Load(kg)	CWxCD (mmxmm)	CO 800	HWxHD (mmxmm)	HWxHD (mmxmm)	HWxHD (mmxmm)		
					2000x1850 ***	1950x1750	2000x1900	1950x1900	
					2050x1850	1950x1750	2050x1900	1950x1900	
	10	800	1350x1400	CO 1000 *	2150x1850	2150x1750	2150x1900	2150x1900	
					CO 900	2250x1850 ***	2200x1750	2250x1900	2200x1900
					CO 1000 *	2300x1850	2200x1750	2300x1900	2200x1900
	13	1000	1600x1400	CO 1100 *	2400x1850	2350x1750	2400x1900	2350x1900	
					CO 1100 *	2400x1850	2350x1750	2400x1900	2350x1900

PLANNING GUIDE FOR DIMENSIONS -- OH and PIT

Speed (mm)	Max. Travel (m)	Std. OH (mm)	Min. OH (mm)	Std. PIT (mm)	Min. PIT (mm)	Car Clear Height (CH) (mm)	Door Height (mm)
1.0	40	3830	3800 ****	1400	1350	2200 (with 100mm false ceiling)	2100
1.5	60	3980	3950 ****	1500	1500		
1.75	75	4080	4000 ****	1550	1500		

* Optional

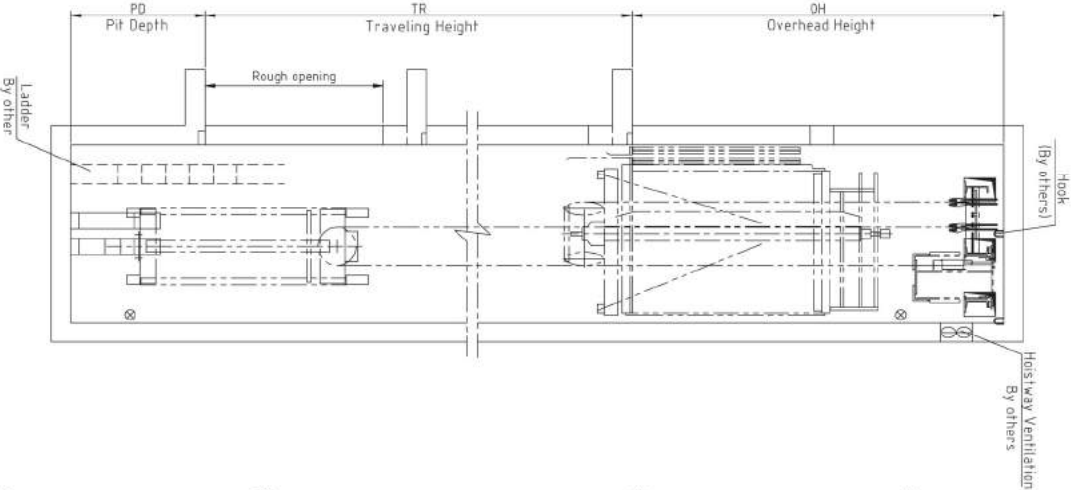
** Center opening door offset (the centerline of center opening door is not same as centerline of car)

*** HW increases 50mm when S830-SD (MMR)

**** Min. OH is CH+2200mm with 70mm false ceiling.

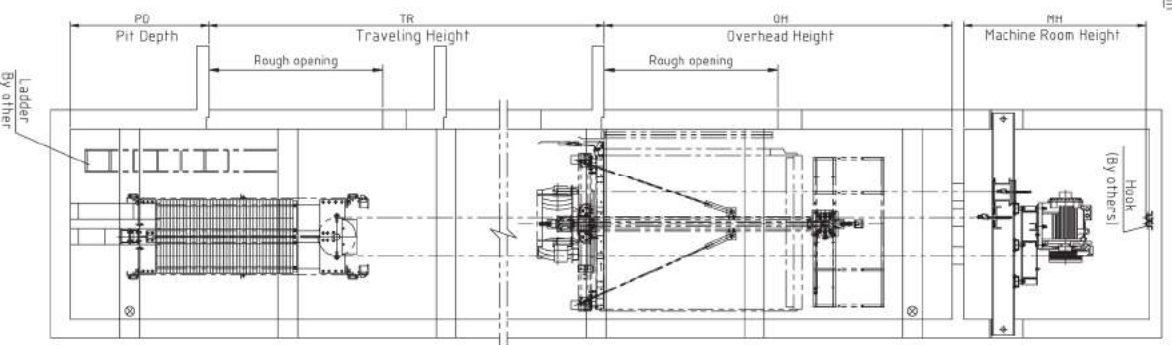
Lift Shaft-SECTION VIEW

S820

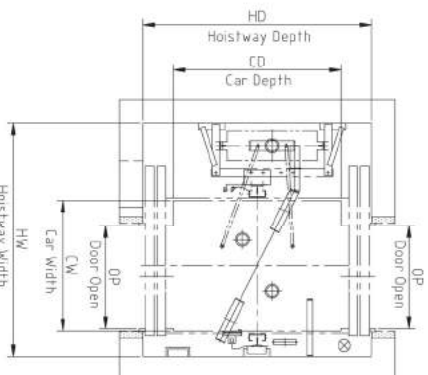
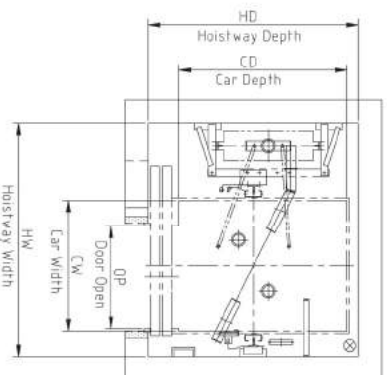


Lift Shaft-SECTION VIEW

S830-L

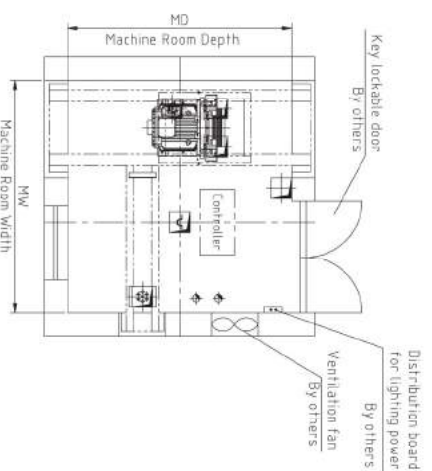


HOISTWAY PLAN



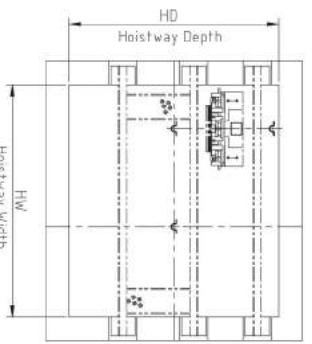
MACHINE ROOM PLAN

S830-L



TOP LANDING

S820



PLANNING GUIDE FOR DIMENSIONS -- Deep Car -- 1150-2000kg

Speed(m/s)	Capacity		Car Size	Door Opening(mm)	Std. Hoistway Size / HWxHD (mmxmm)	
	Person	Load(kg)			Single Opening	Through Opening
1.0, 1.5, 1.75	15	1150	1400x1800	CO 900	2300x2200	2500x2300
				SO 1100/1200 *	2500x2250	2500x2450
	16	1250	1400x1950	CO 900	2300x2350	2500x2450
				SO 1100/1200 *	2500x2400	2500x2600
	18	1350	1400x2100	CO 900	2500x2500	2500x2600
				SO 1100/1200 *	2500x2550	2500x2750
21	1600	1400x2400	CO 900	2300x2800	2500x2900	
			SO 1100/1200 *	2500x2850	2500x3050	
26	2000	1600x2500	SO 1200/1300/1400 *	2700x2950	2700x3150	

PLANNING GUIDE FOR DIMENSIONS -- Wide Car -- 1150-2000kg

Speed(m/s)	Capacity		Car Size	Door Opening(mm)	Std. Hoistway Size / HWxHD (mmxmm)	
	Person	Load(kg)			Single Opening	Through Opening
1.0, 1.5, 1.75	15	1150	1800x1400	CO 1000	2900x1850	2900x1900
				SO 1100/1200 *	2300x1850	2900x2050
	16	1250	1950x1400	CO 1100	3050x1850	3050x1900
				SO 1200/1300 *	3050x1850	3050x2050
	18	1350	1950x1500	CO 1100	3050x1900	3050x2000
				SO 1200/1300 *	3050x1950	3050x2150
21	1600	1950x1700	CO 1100	3050x2100	3050x2200	
			SO 1200/1300/1400 *	3050x2150	3050x2350	
26	2000	1950x2100	CO 1100 SO 1200/1300/1400 *	3050x2500 3050x2550	3050x2600 3050x2750	

PLANNING GUIDE FOR DIMENSIONS -- OH and PIT for S820 (MRL)

Speed (mm)	Std. OH (mm)	Min. OH (mm)	Std. PIT (mm)	Min. PIT (mm)	Car Clear Height (CIH) (mm)	Door Height (mm)
1.0	4300	4150	1650	1600	2200	
1.5	4450	4300	1750	1700	(with 100mm false ceiling)	2100
1.75	4500	4350	1800	1800		

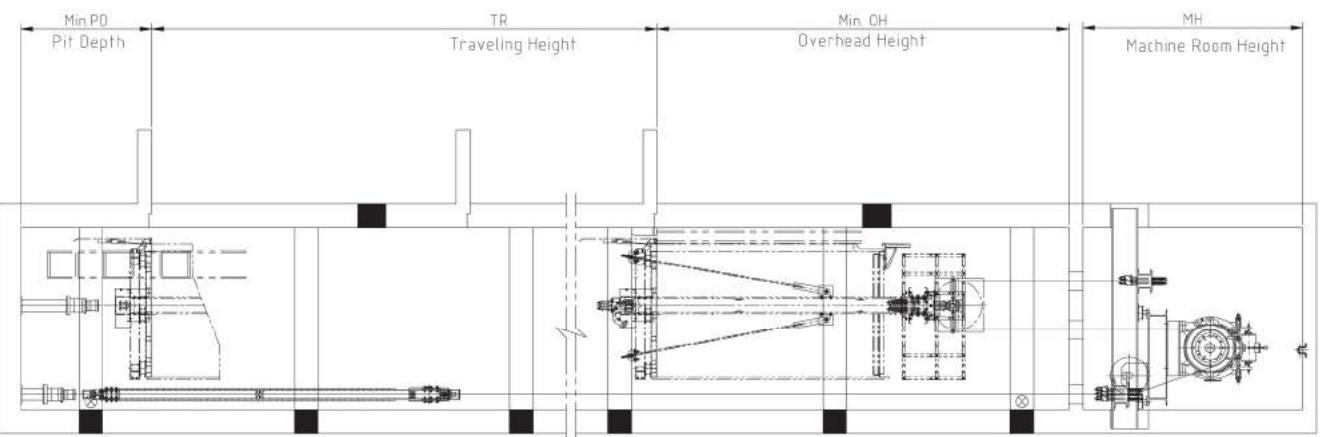
PLANNING GUIDE FOR DIMENSIONS -- OH and PIT for S830-L (MMR)

Speed (mm)	Max. Travel (m)	Std. OH (mm)	Min. OH (mm)	Std. PIT (mm)	Min. PIT (mm)	Car Clear Height (CIH) (mm)	Door Height (mm)
1.0	40	3850	3700	1650	1600	2200	
1.5	60	4000	3800	1750	1700	(with 100mm false ceiling)	2100
1.75	75	4050	3850	1800	1800		

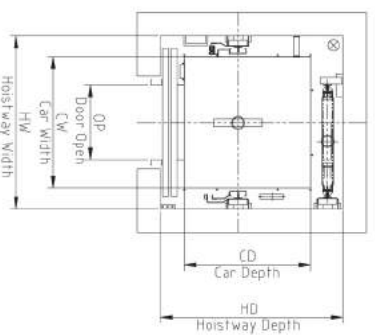
Note: For 2000kg, OH or PD should increase by 200mm based on the table above.

* optional

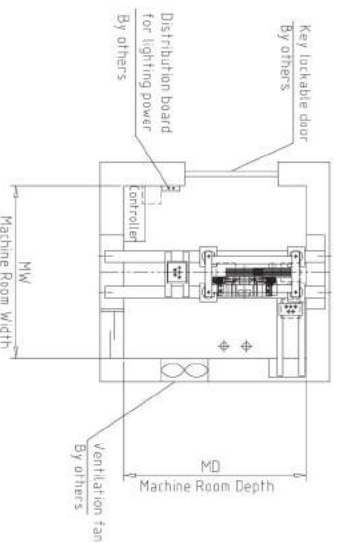
Lift Shaft-SECTION VIEW



HOISTWAY PLAN



MACHINE ROOM PLAN



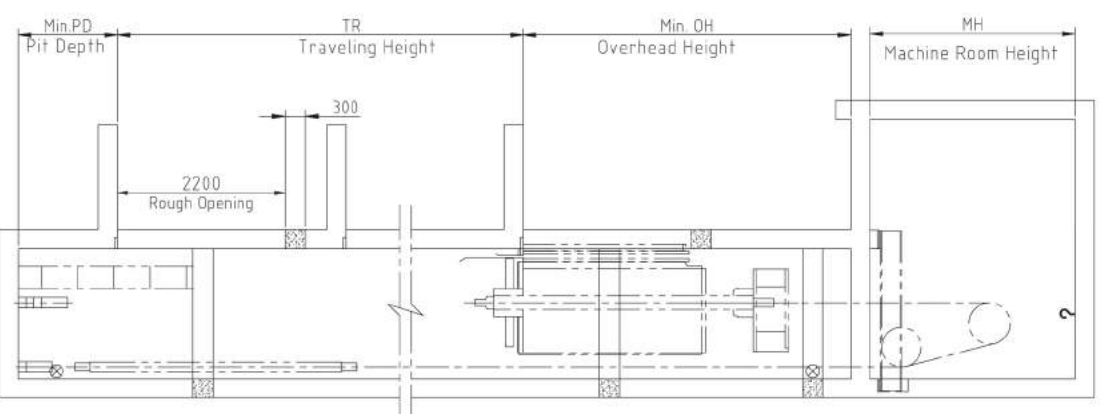
PLANNING GUIDE FOR DIMENSIONS -- Wide Car -- 800-1000kg

Speed(m/s)	Capacity		Car Size		Door Opening(mm)	Standard Hoistway Size	
	Person	Load(kg)	CW*CD(mm*mm)	HW*HD(mm*mm)			
1.0, 1.5, 1.75	10	800	1400x1350	CO 800	1650x1950		
	13	1000	1600x1400	CO 900	2150x2000		
2.0	10	800	1400x1350	CO 800	1500x1950		
	13	1000	1600x1400	CO 900	2100x2000		

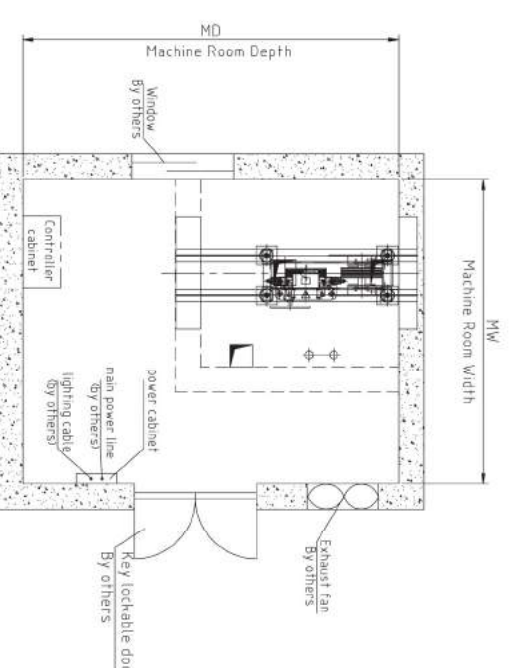
PLANNING GUIDE FOR DIMENSIONS -- OH and PIT

Speed (mm)	Max. Travel (m)	Std. OH (mm)	Min. OH (mm)	Std. PIT (mm)	Min. PIT (mm)	Car Clear Height (CH) (mm)	Door Height (mm)
1.0	40	4200	4050	1300	1300	2200 (with 100mm false ceiling)	2100
1.5	60	4400	4200	1350	1350		
1.75	75	4550	4350	1400	1400		
2.0	100	4700	4700	1700	1700		

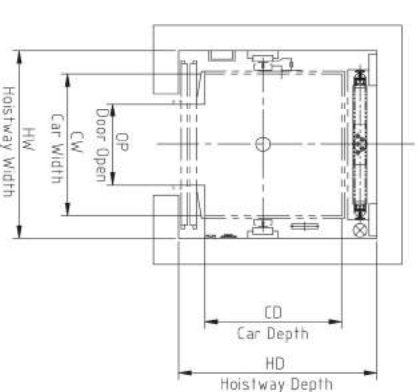
Lift Shaft-SECTION VIEW



HOISTWAY PLAN



MACHINE ROOM PLAN



PLANNING GUIDE FOR DIMENSIONS -- Wide Car -- 450-630kg

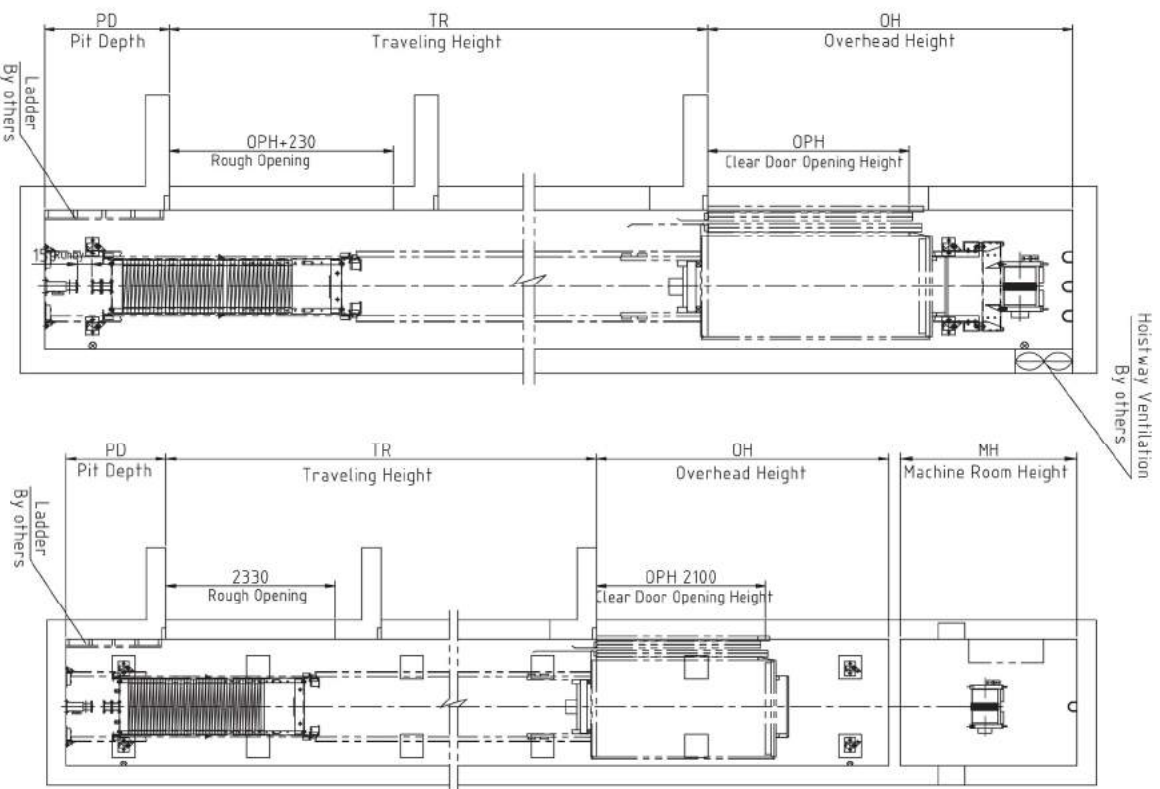
Speed(m/s)	Capacity		Car Size		Door Opening(mm)	Standard Hoistway Size	
	Person	Load(kg)	CW*CD(mm*mm)	HW*HD(mm*mm)			
1.0, 1.5	6	450	1400x850	CO 800	1850x1450		
	8	630	1400x1100	CO 800	1850x1700		

PLANNING GUIDE FOR DIMENSIONS -- OH and PIT

Speed (mm)	Max. Travel (m)	Std. OH (mm)	Min. OH (mm)	Std. PIT (mm)	Min. PIT (mm)	Car Clear Height (CH) (mm)	Door Height (mm)
1.0	40	4300	3800	1300	1300	2200 (with false ceiling)	2100
1.5	60	4400	3900	1400	1400		

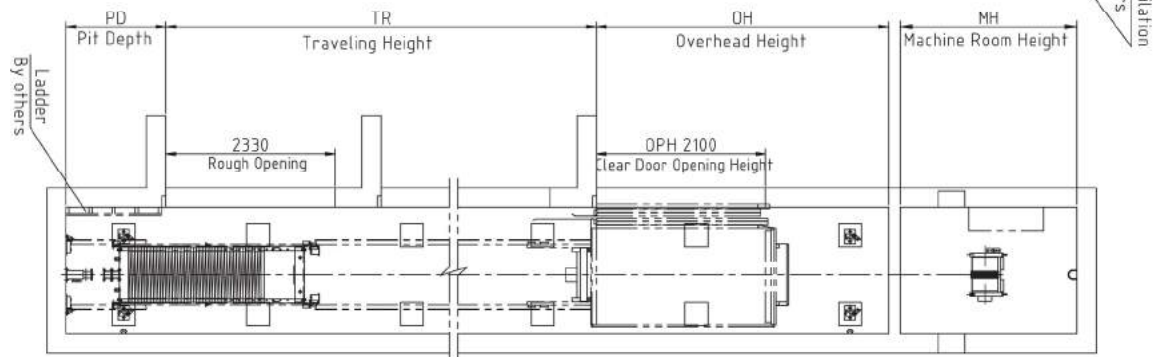
Lift Shaft-SECTION VIEW

S810

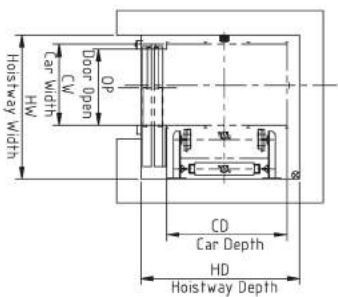


Lift Shaft-SECTION VIEW

S830-M

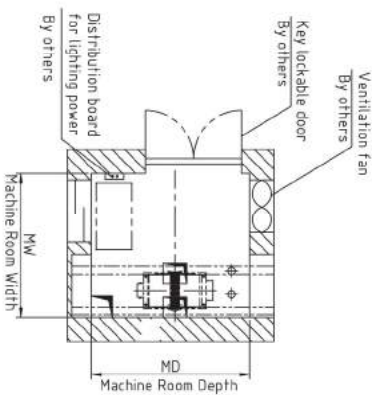


HOISTWAY PLAN



MACHINE ROOM PLAN

S830-M



PLANNING GUIDE FOR DIMENSIONS - Deep Car 320-630kg - Single Opening

Speed(m/s)	Capacity		Car Size		Door Opening(mm)	Standard Hoistway Size	
	Person	Load(kg)	CWxCD(mm/mm)	HWxHD(mm/mm)		HWxHD(mm/mm)	HWxHD(mm/mm)
0.63, 1.0	4	320	850x1080	1500x460	SO 900	1500x460	1500x460
	5	400	850x1250	1500x650		1500x650	1500x650
	6	450	1000x1250	1650x650		1650x650	1650x650
0.63, 1.0	6	480	1000x1300	1650x700	SO 800/900	1650x700	1650x700
	6	500	1000x1350	1650x750		1650x750	1650x750
	8	630	1100x1400	1750x800		1750x800	1750x800

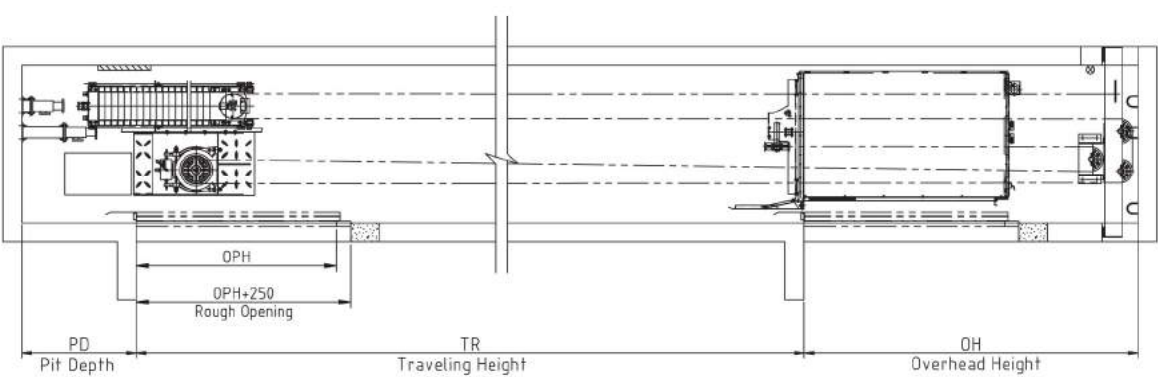
PLANNING GUIDE FOR DIMENSIONS - OH and PIT

Speed Max. Travel (mm)	OH (mm)	PIT (mm)	Car Clear Height (CH) (mm)	Door Height (mm)
0.63/1.0	30	3500	1300	2100 (without false ceiling)
				2000

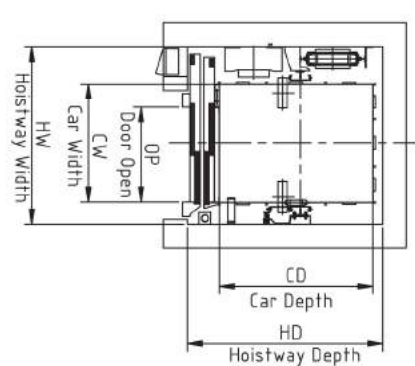
PLANNING GUIDE FOR DIMENSIONS - Deep Car 320-630kg - Through Opening

Speed(m/s)	Capacity		Car Size		Door Opening(mm)	Standard Hoistway Size	
	Person	Load(kg)	CWxCD(mm/mm)	HWxHD(mm/mm)		HWxHD(mm/mm)	HWxHD(mm/mm)
0.63, 1.0	4	320	800x1050	1500x450	SO 700	1450x1500	1450x1500
	4	400	850x1250	1500x650		1500x650	1500x650
	4	450	950x1250	1600x700		1600x700	1600x700
0.63, 1.0	6	480	1000x1250	1600x750	SO 800/900	1600x750	1600x750
	6	500	950x1350	1600x800		1600x800	1600x800
	6	630	1100x1400	1750x850		1750x850	1750x850

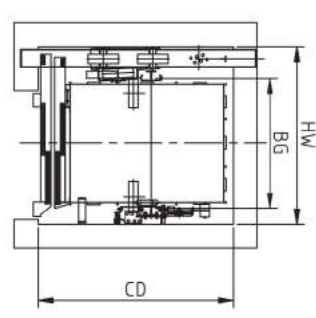
Lift Shaft-SECTION VIEW



HOISTWAY PLAN (Other Landings)



HOISTWAY PLAN (Top Landings)

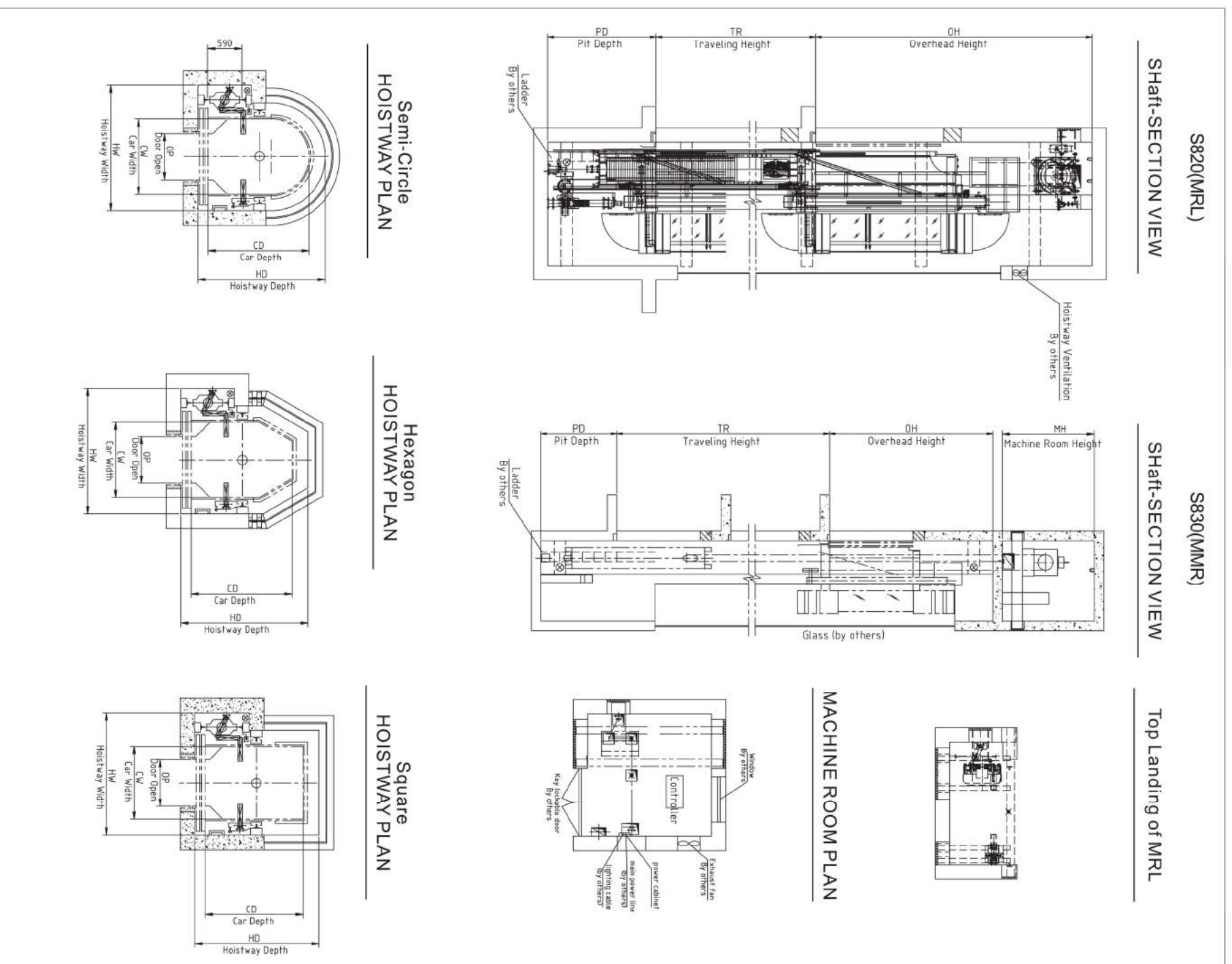


SINGLE OPENING

Speed(m/s)	Capacity Load(kg)	Car Size		Minimum Hoistway Size		Maximum Hoistway Size		Overhead Height (mm)	Pit Depth (mm)	Max. Pit Depth (mm)	Open Width (mm)	Max Travelling Height (mm)
		CWxCD (mm/mm)	CH (mm)	HWxHD (mm/mm)	HWxHD (mm/mm)	HWxHD (mm/mm)	HWxHD (mm/mm)					
1	450	1000x1250	2100 (without false ceiling)	1500x1600	1730x1900	3500	1200	1600	800	800	45	
1	480	1000x1300	2100 (without false ceiling)	1500x1650	1730x1950	3500	1200	1600	800	800	45	
1	630	1100x1400	1500x1750	1830x2100	3500	1200	1600	800	900	45		

THROUGH OPENING

Speed(m/s)	Capacity Load(kg)	Car Size		Minimum Hoistway Size		Maximum Hoistway Size		Overhead Height (mm)	Pit Depth (mm)	Max. Pit Depth (mm)	Open Width (mm)	Max Travelling Height (mm)
		CWxCD (mm/mm)	CH (mm)	HWxHD (mm/mm)	HWxHD (mm/mm)	HWxHD (mm/mm)	HWxHD (mm/mm)					
1	480	1000x1250	2100 (without false ceiling)	1500x1790	1730x1790	3600	1200	1600	800	800	45	
1	675	1100x1400	1500x1940	1830x1940	3600	1200	1600	800	900	45		



PLANNING GUIDE FOR DIMENSIONS -- Deep Car -- 630-1600kg

Speed(m/s)	Capacity		Car Size CW*CD(mm*mm)	Door Opening(mm)	Standard Hoistway Size HW*HD(mm*mm)
	Person	Load(kg)			
Square 1.0, 1.5, 1.75	8	630	1100x1400	CO 700	1950x1900
	10	800	1250x1600	CO 800	2100x2130
	13	1000	1350x1730	CO 800	2200x2280
	15	1150	1400x1800	CO 900	2500x2350
Semi-Circle Hexagon 1.0, 1.5, 1.75	16	1250	1500x1800	CO 900	2600x2350
	18	1350	1600x1900	CO 1000	2700x2350
	21	1600	1700x1950	CO 1000	2800x2500

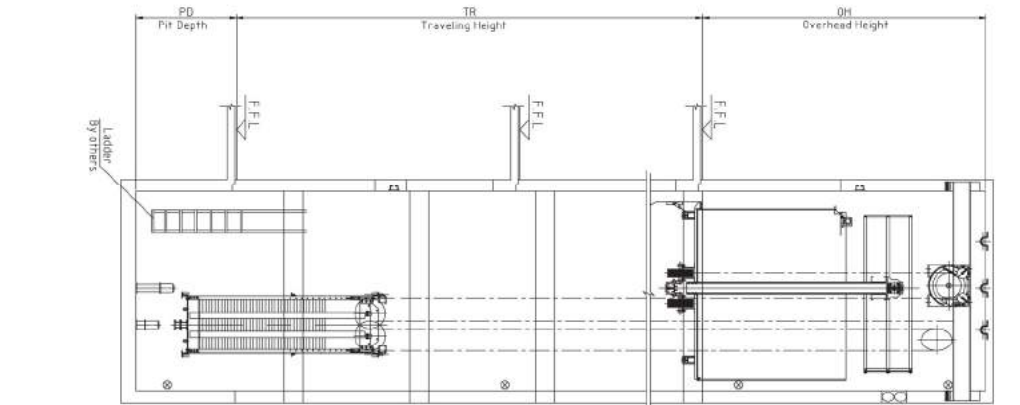
PLANNING GUIDE FOR DIMENSIONS -- OH and PIT -- S820 (MRL)

Speed (mm)	Max. Travel (m)	Load(kg)	OH (mm)	PIT (mm)	Car Clear Height (CH) (mm)	Door Height (mm)
1.0	40	630	4900	1750	2200	2100
1.5	60	800	5050	1850	(with false ceiling)	2100
1.75	75	1000	5100	1900		
1.0	40	800	4900	1850		
1.5	60	1000	5050	1950		
1.75	75	1150-1600	5100	2000		
1.0	40	1000	4900	1950		
1.5	60	1150-1600	5050	2050		
1.75	75	1400-2000	5100	2100		
1.0	40	1000	4900	2100		
1.5	60	1150-1600	5000	2100		
1.75	75	1400-2000	5100	2100		

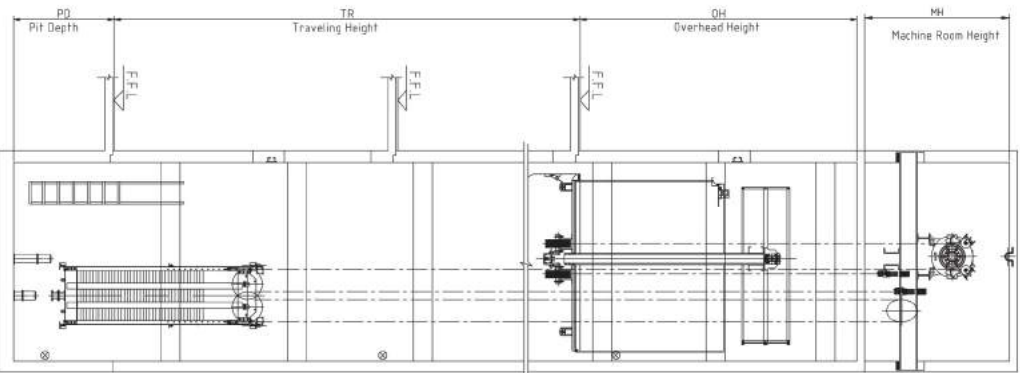
PLANNING GUIDE FOR DIMENSIONS -- OH and PIT -- S830 (MMR)

Speed (mm)	Max. Travel (m)	Load(kg)	OH (mm)	PIT (mm)	Car Clear Height (CH) (mm)	Door Height (mm)
1.0	40	630	4500	1700	2200 (with false ceiling)	2100
1.5	60	800	4600	1800		
1.75	75	1000	4800	1850		
1.0	40	800	4500	1800		
1.5	60	1000	4600	1900		
1.75	75	1150-1350	4600	1950		
1.0	40	1000	4500	1800		
1.5	60	1150-1350	4600	2000		
1.75	75	1400-2000	4600	2050		
1.0	40	1000	4700	2100		
1.5	60	1150-1350	4800	2100		
1.75	75	1400-2000	4900	2100		
1.0	40	1600	4800	2100		
1.5	60	1600	4900	2100		
1.75	75	1600	5000	2100		

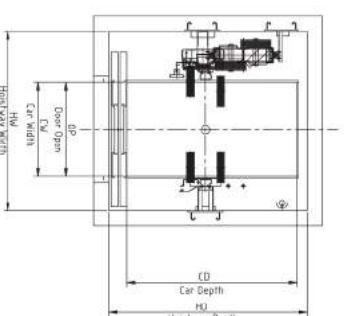
Lift Shaft-SECTION VIEW
S100MRL



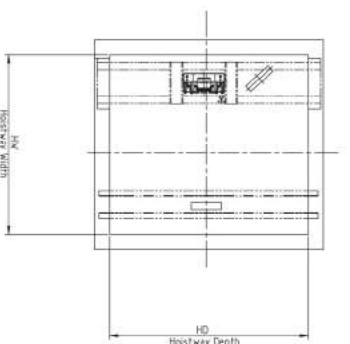
Lift Shaft-SECTION VIEW
S100MMR



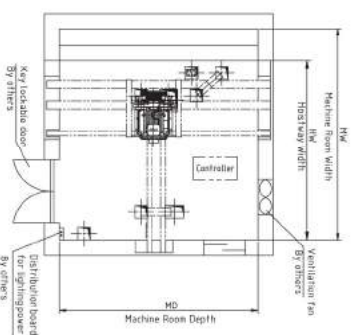
HOISTWAY PLAN



Top Landing
S100MRL



MACHINE ROOM PLAN
S100MMR



PLANNING GUIDE FOR DIMENSIONS 2000-4000kg

Speed(m/s)	Max. Travel (m)	Capacity Load(kg)	Car Size		Door Opening(mm)	Std. Hoistway Size / HWxHD (mmxmm)	
			CWxCD(mm)	mm		Single Opening	Through Opening
0.5	40	2000	1500x2700	CO 1500, 4 panels	2850x3250	2850x3300	
		3000	1700x3300	CO 1700, 4 panels	3250x3850	3250x3900	
		4000	2200x3300	CO 2200, 4 panels	3850x3850	3850x3900	

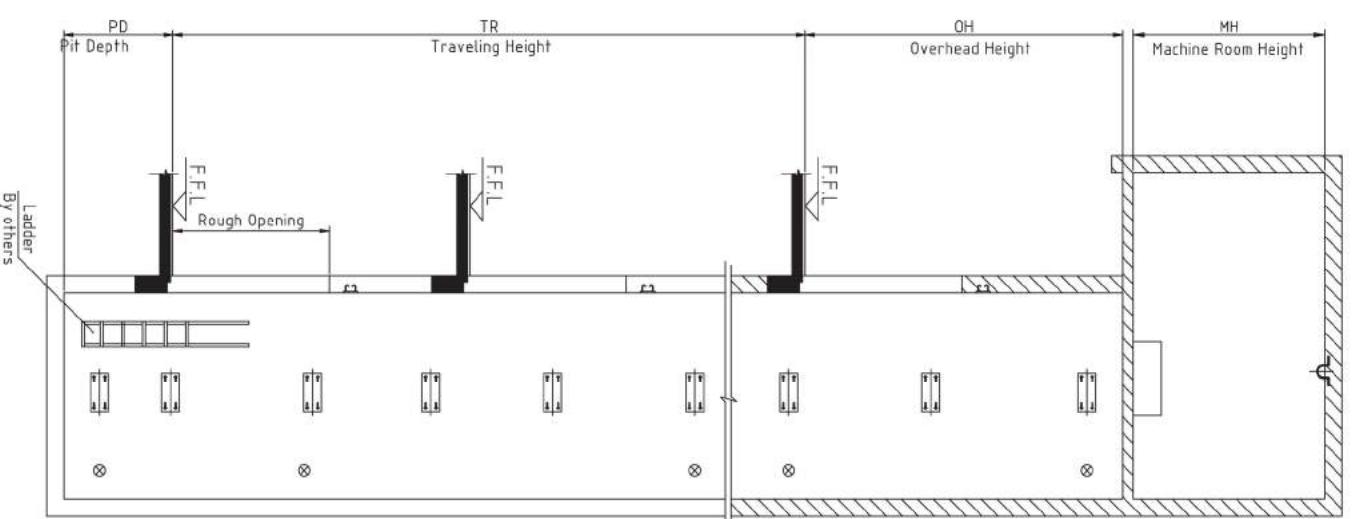
PLANNING GUIDE FOR DIMENSIONS OH and PIT - S100MRL

Capacity Load(kg)	OH (mm)	PIT (mm)	Car Clear Height (CH) (mm)	Door Height (mm)
2000	4500	1700	2200	2100
3000	4600	1700	(without false ceiling)	
4000	4600	1700		

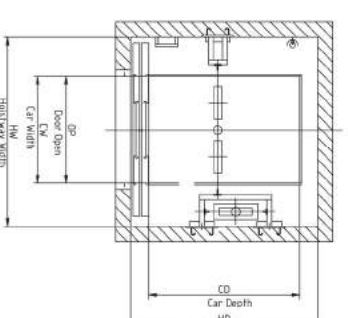
PLANNING GUIDE FOR DIMENSIONS OH and PIT - S100MRA

Capacity Load(kg)	OH (mm)	PIT (mm)	Car Clear Height (CH) (mm)	Door Height (mm)
2000	4400	1700	2200	2100
3000	4500	1700	(without false ceiling)	
4000	4500	1700		

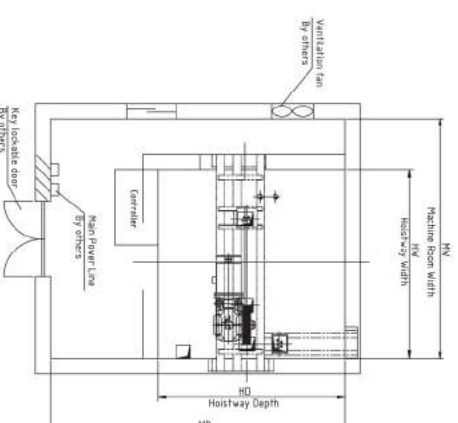
Lift Shaft-SECTION VIEW



HOISTWAY PLAN



MACHINE ROOM PLAN



PLANNING GUIDE FOR DIMENSIONS OH and PIT-S100MRL

Capacity Load(kg)	OH (mm)	PIT (mm)	Car Clear Height (CH) (mm)	Door Height (mm)
3000/3500	4800(1.0m/s)	1600	(without false ceiling)	
4000	4600	1600		
5000	5000	1600	2400	2300

PLANNING GUIDE FOR DIMENSIONS 2000-4000kg

Speed(m/s)	Max. Travel (m)	Capacity Load(kg)	Car Size		Door Opening(mm)	Std. Hoistway Size / HWxHD (mmxmm)	
			CWxCD(mm)	mm		Single Opening	Through Opening
0.5/1.0	40	2000	1700x2400	CO 1700, 4 panels	3000x2950	3000x3000	
		3000	2000x2800	CO 2000, 4 panels	3400x3350	3400x3400	
		3500	2200x3000	CO 2200, 4 panels	3800x3550	3800x3600	
		4000	2000x3600	CO 2000, 4 panels	3550x4150	3550x4200	
		5000 *	2400x3600	CO 2400, 4 panels	4050x4150	4050x4200	

* 5000kg is with 6 car guide rails

Projects Highlight



LV HQ, China



Audi Center Sydney, Australia



Victory Park & Shop, Philippines



Ruhua R&D Building Xiamen, China



Longmont Asia Pacific City Shenyang, China



G Center, Israel



Suzhou Railway Station, China

Projects Highlight



Odincovo Shopping Center, Russia



Lous Asdgh, Armenia



Matzlaw Building, Israel



Lotus Business Center, India



Pelican Hill Residence, Turkey



Zon Technology MKN Embassy, Malaysia



Diamond Plaza, Myanmar



Harris Hotel-Bali, Indonesia



Punkthuse Office Building, Denmark



DB City Bhopal, India

Projects Highlight



Camadia Bank Plc, Cambodia.



Golden City, Cambodia.



Cocor, Romania.



Vellej Shopping Center, Denmark.



Mall Arha Gading, Indonesia.



New Saigon, Vietnam.



Plovdiv Shopping Center, Bulgaria.



AL-Sulan Buildings, Saudi Arabia.



Saturn Mall, Greece.

Projects Highlight



Sorya Mall, Cambodia.



Caracas Maiquetia Airport, Venezuela.



Art School, Singapore.



Mekong Condo, Cambodia.



Jakarta CBD Ciledug, Indonesia.



Chennai Train Station, India.



Chennai Airport, India.



House of Fraser Shopping Mall, England.



UMEA Travel Center, Sweden.



Krabi Airport, Thailand.