



irisTM 3

World-Class
High Rise Solutions



Sigma head office

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ISO 9001
Certificate



ISO 14001
Certificate



ISO 50001
Certificate

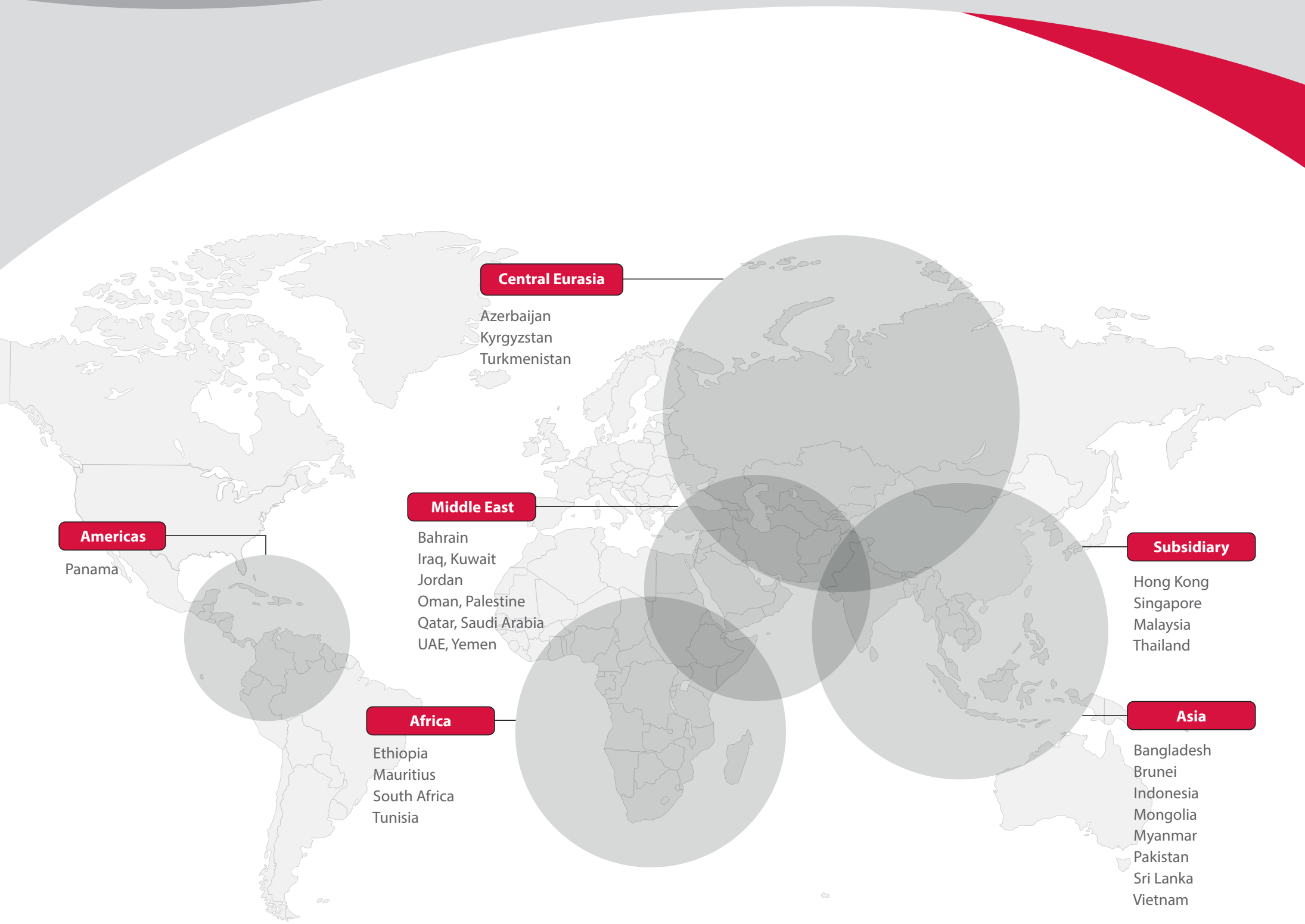
Sigma constantly endeavors to improve products. Please note that the information in this catalog is subject to change without prior notice.

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2025. 3 / Revision 0

Reaching new heights
<http://sigmaelevator.com>

SIGMA GLOBAL NETWORK



Sigma has been a
global elevator company
since 1978

 BTI Condominium Bangladesh	 LG Beijing Tower China	 Grand Hyatt Hotel Indonesia	 Dania City Iraq
 Mirran City Iraq	 Emerald Tower Kazakhstan	 Darwaza Tower Kuwait	 Chinggis Khaan International Airport Mongolia
 Shangri La Hotel Mongolia	 Hotel Yangon Myanmar	 CB Bank Building Myanmar	 Torre Global Bank Panama
 Ocean Two Panama	 Sheraton Hotel Puerto Rico	 Al Rames Tower Qatar	 Baiyoke Tower Thailand
 Khalid Al Attar Tower UAE	 Juma Al Majid Tower UAE	 Armada Tower UAE	 Burj Nahar - Shopping Mall & Residences UAE
 The Court Tower UAE	 Tamami Arts Center UAE	 Plaza La Castellana Venezuela	 Eurowindow River Park Vietnam

Reaching new heights

irisTM 3

Designed for efficiency, Sigma high-rise elevators facilitate the movement of people within tall buildings.

irisTM high-rise elevators are equipped with state-of-the-art technology. They incorporate sophisticated safety features, ride quality and energy-saving solutions to address the specific challenges of high-rise buildings. In combination with our Destination Dispatch Systems, they deliver seamless people movement.



Safety
Features



Ride
Quality



Energy Saving
Solutions



Destination
Dispatch
System





Safety Features

WORLD-CLASS TESTING & QUALIFICATION

Recognized as world-class by code authorities, supplier feedback and internal product benchmarking, our product qualification processes include:

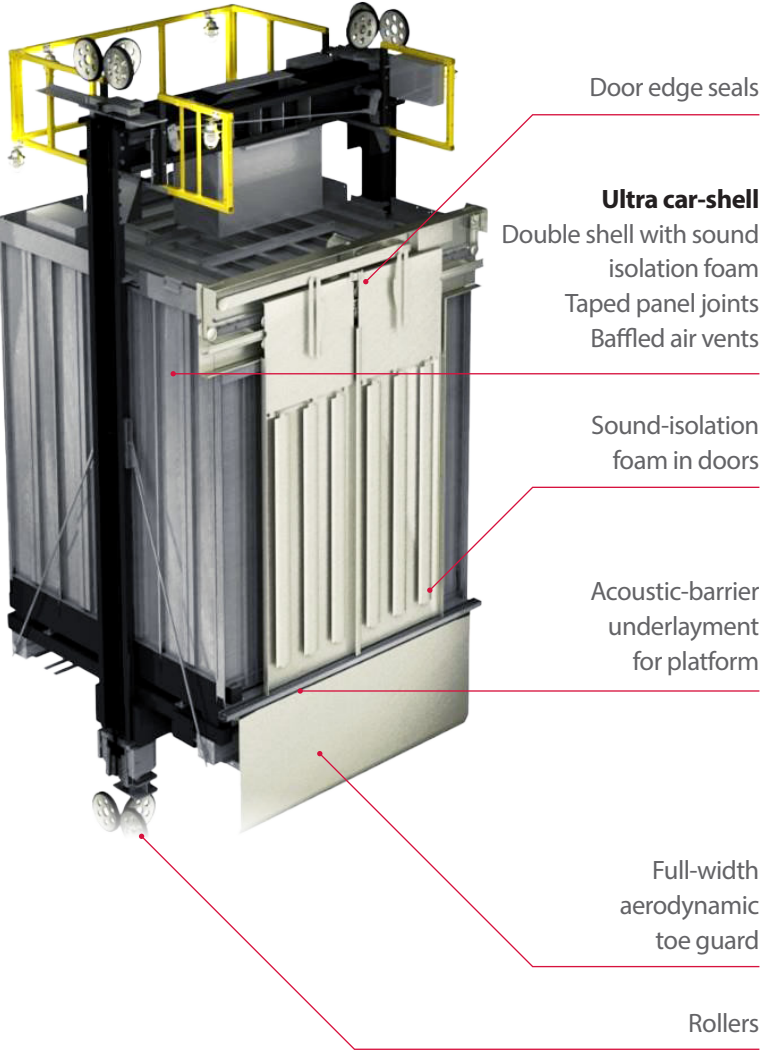
- Exposure to harsh environmental conditions
- Advanced system dynamic tests
- Life cycle tests with a focus on safeties, governors and buffer



Ride Quality

Engineered for quite and smooth rides

High-rise buildings deserve safe, reliable, efficient and comfortable technologies to provide you connected services all along your building life. To Sigma, those features are our core values. With the iris™ elevator system, we focus on delivering an efficient and cost-effective solution for your customers, tenants or passengers, commuting to work or living their daily life.



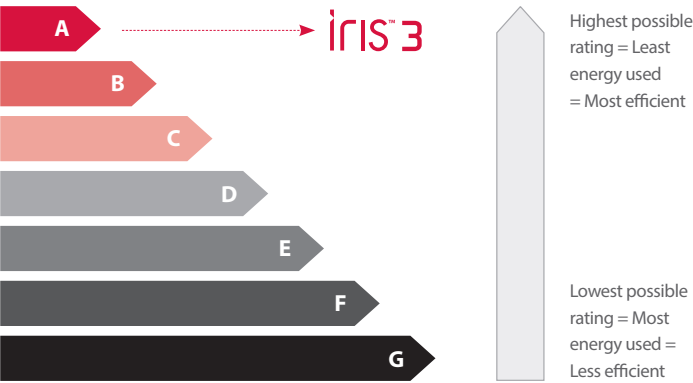
Energy Saving Solutions



VDI

How does VDI 4707 classify energy?

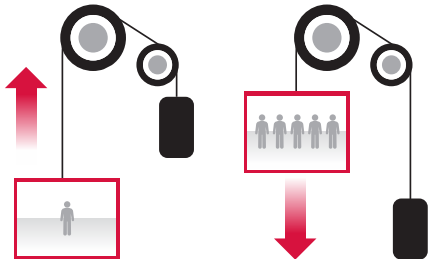
Elevators are divided into energy efficiency classes from A to G, similar to home electrical appliances



Regen

Regenerative Technology – For every iris™ 3

More efficient than conventional systems



Energy created by your elevator is captured by the ReGen drive and is put to use – this is fed into your building’s electrical grid

Destination Dispatch System

e*Route

e*Route moves people more efficiently
by taking grouping to the next level.

SMART

Third generation dispatching algorithm configured
to optimize each building's unique traffic patterns
throughout the day

STYLISH

Sleek glass touchscreens available in multiple sizes
and color combinations to suit today's modern
architectural concepts as well as enhance existing
building interiors

SIMPLE

Integrates with your access control system
Intuitive wayfinding graphical interface
screens and signage
Applications for new and modernized elevators



Conventional up/down
button systems



Smart Grouping

e*Route NEW FIXTURES

12 Inch Touch LCD (Angle Mounted)



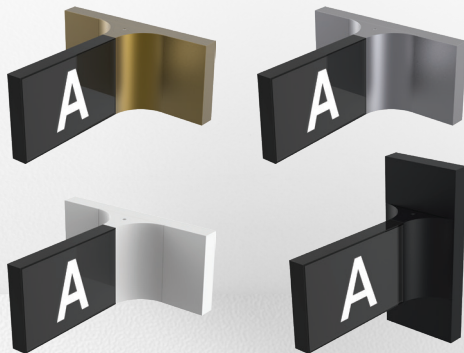
12 Inch Touch LCD
(Flush Mounted)



7 Inch Touch LCD
(Flush Mounted)



Signage (Dynamic/Static)



Car Interior

Hairline Stainless Steel



Rear View



Front View

Specification

Car Wall	Hairline stainless steel
Floor	4901 AH
Ceiling	4901 4082L Type : Painted steel RAL9022 +LED panel light EEC is unavailable

i The actual product can be different (changed) depending on design
Car wall image can be different (changed) depending on capacity

Hairline Stainless Steel + Mirror Stainless Steel



Rear View



Front View

Specification

Car Wall	Front Wall	Hairline stainless
	Other Wall (Center)	Mirror stainless
	Other Wall (Side)	Hairline stainless
Floor	4901 PVC MA-0201AH	
Ceiling	4087L Type : Painted steel RAL9022 + LED panel light EEC is unavailable	

i The actual product can be different (changed) depending on design
Car wall image can be different (changed) depending on capacity

Ceiling & Handrail



4074L



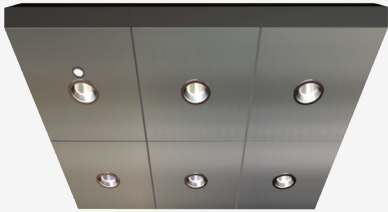
4081L



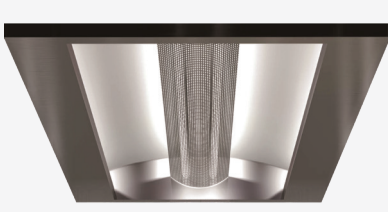
4082L



4087L



4095L



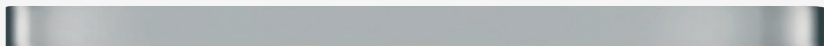
4180L



4900 -A : Hairline st.steel
4900 -B : Mirror st.steel



4900A-A : Hairline st.steel
4900B-B : Mirrorst. steel



4900F : Hairline st.steel

COP

COP2

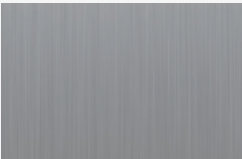


Hairline Stainless steel
UI15
BS34D Hairline
stainless steel



Hairline Stainless steel
UI18
BS34D Hairline
stainless steel

Faceplate



Hairline
Stainless
steel



Mirror
Stainless
steel

Display

LCD7 (7" TFT-LCD)



UI15



UI16



UI17

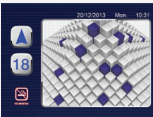


UI18



UI2

LCD 10.4 (10.4" TFT-LCD)



UI10



UI11



UI12



UI13

LCD 12.1 (12.1" TFT-LCD)



UI10



UI11



UI12



UI13

Button



BR27A



BR27A(B)



BR27B(K)



BR32A(B)



BR34C(B)



BS34D(B)

Hall Fixtures

HBP11



Hairline Stainless steel
LCD 4.3 UI2
BS34C(B) Hairline stainless steel

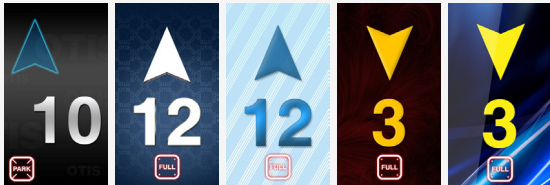
Faceplate



Hairline
Stainless
steel

Display

LCD 4.3
(4.3" TFT-LCD)



UI15 UI16 UI17 UI18 UI12

BND 4.3
(4.3" BND-LCD)



BND 4.3

Button



BR27B



BR32A(B)



BR34C(B)



BS34D(B)

LCD 7 (7" TFT-LCD HPI)



UI15 UI16 UI17 UI18 UI2

HPI (HBP11 Type)



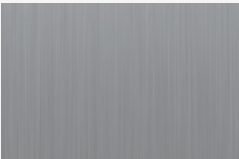
LCD 7
(7" TFT-LCD HPI)

HBP12



Hairline Stainless steel
LCD 4.3 UI15
BS34F Hairline stainless steel

Faceplate



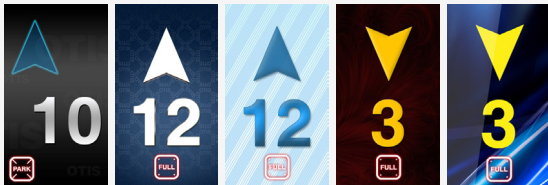
Hairline
Stainless
steel



Mirror
Stainless
steel

Display

LCD 4.3
(4.3" TFT-LCD)



UI15 UI16 UI17 UI18 UI12

BND 4.3
(4.3" BND-LCD)



BND 4.3

Button



BS34E



BR34E



BS34F



BS34F(B)



BR34F



BR34F(B)

HPI (HBP12 Type)



LCD 7B
(7" TFT-LCD HPI)



BND 7B
(7" BND-LCD HPI)

LCD 7 (7" TFT-LCD HPI)



UI15 UI16 UI17 UI18 UI2

Hall Fixtures

HBP22 (Option)



Gradient golden
LED_W, 2-digit floor mark
BR34L-L

Faceplate

Tempered Glass



Obsidian black Monet grey Dark green Gradient golden

Display

LED_W, 2-digit floor mark

HPI (HBP22 Type) (Option)



HBP22
(Obsidian Black
Tempered Glass)



HBP22
(Monet Grey
Tempered Glass)

Button



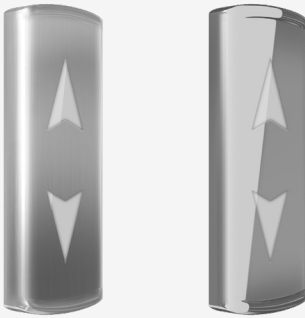
BR34J BR34J_L



BR34JB_L BR34L_L

Hall Lantern

HL11 (with HBP11Hall fixtures)



Hairline Mirror

Faceplate



Hairline
Stainless
steel



Mirror
Stainless
steel

HL15 (with HBP12Hall fixtures)



Rectangular
Down: red Rectangular
Up: green
Down: red Rectangular
Up: green

Faceplate



Hairline
Stainless
steel



Mirror
Stainless
steel

HL22 (with HBP22Hall fixtures)(Option)

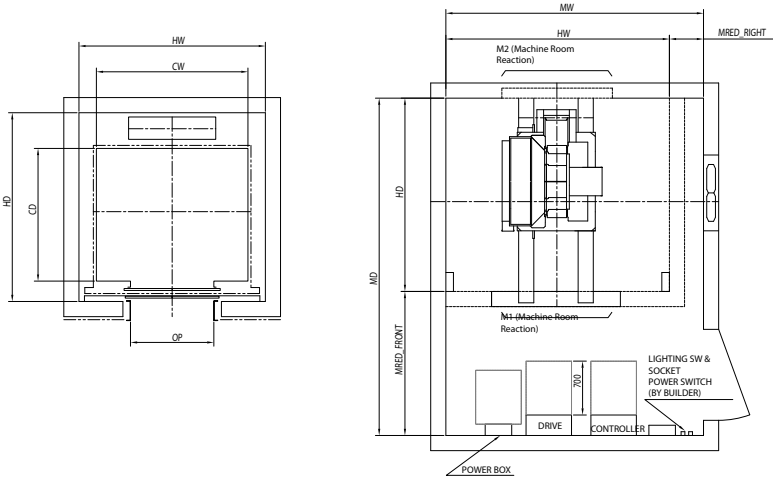
Tempered Glass



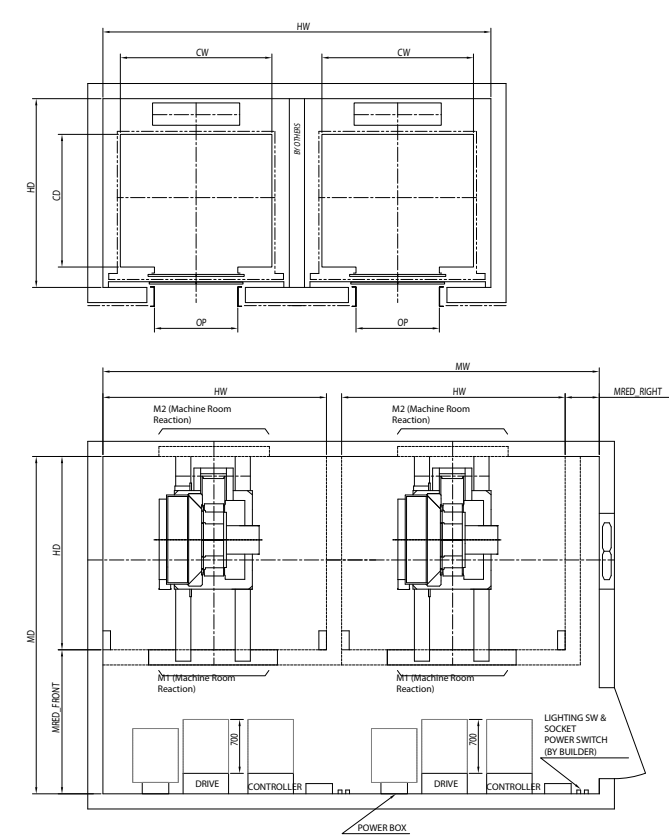
Vertical arrangement
For top floor Vertical arrangement
For Intermediate floors Vertical arrangement
For Bottom floor

Layout Dimensions(3.0m/s ~ 7.0m/s)

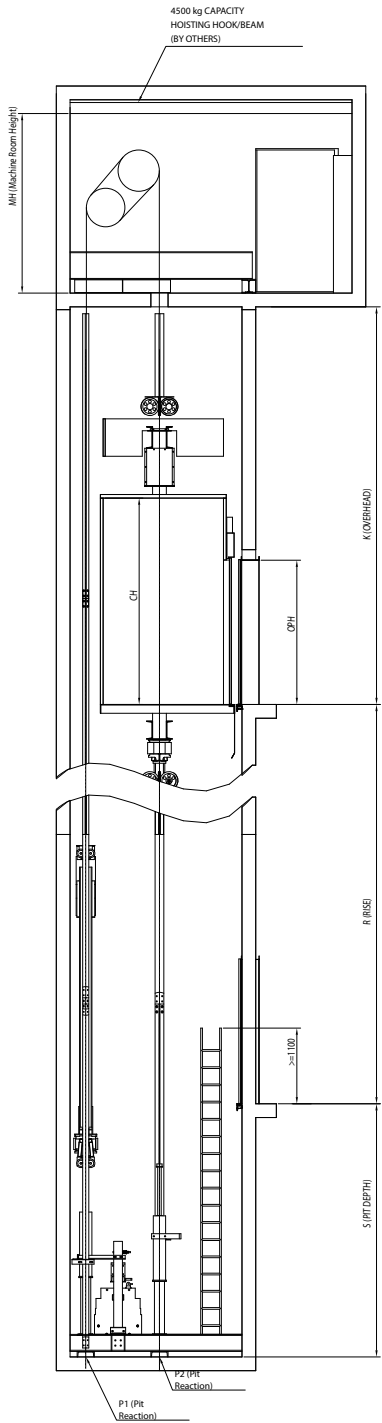
Simplex



Duplex



Section



Layout Dimensions(3.0m/s ~ 4.0m/s)

[Based on EH=2100, Center Opening Type, CH=2400, Rear CWT]

Speed (m/s)	Capacity		Opening Width (mm)	Car Size (mm)		Hoistway Size(mm)				Machine Room Size(mm)				Reaction Load (kg)				Max. Rise (m)	OH (mm)	Pit Depth (mm)	Machine Room Height (mm)
						Simplex		Duplex		Simplex		Duplex		Machine Room		Pit					
	Person	Load(kg)		CW	CD	HW	HD	HW	HD	MW	MD	MW	MD	M1	M2	P1	P2				
3	12	900	900	1600	1350	2200	2150	4500	2150	2550	3750	4850	3750	8500	3200	12700	13600	200	4900	3600	2700
	13	1000	900	1600	1500	2200	2300	4500	2300	2550	3900	4850	3900	8600	3400	13300	14300	200	4900	3600	2700
	13	1000	900	1600	1400	2200	2200	4500	2200	2550	3800	4850	3800	8700	3300	13300	14300	200	4900	3600	2700
	15	1150	1100	1800	1500	2450	2300	5000	2300	2800	3900	5350	3900	9200	3400	14300	15700	200	4900	3600	2700
	15	1150	1100	2000	1350	2600	2150	5300	2150	2950	3750	5650	3750	8000	2600	14000	15700	200	4900	3600	2700
	17	1275	1100	2000	1400	2600	2200	5300	2200	2950	3800	5650	3800	10000	3200	15300	16900	200	4900	3600	2700
	18	1350	1100	1800	1700	2450	2500	5000	2500	2800	4100	5350	4100	9400	3800	15500	17200	200	4900	3600	2700
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	21	1600	1100	2100	1600	2700	2400	5500	2400	3050	4000	5850	4000	10900	3700	17000	19300	200	5000	3600	2700
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	30	2250	1100	2400	1800	3000	2600	6100	2600	3350	4200	6450	4200	21800	11300	20400	24000	180	5000	3600	2700
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Layout Dimensions(5.0m/s ~ 7.0m/s)

[Based on EH=2100, Center Opening Type, CH=2400, Rear CWT]

Speed (m/s)	Capacity		Opening Width (mm)	Car Size (mm)		Hoistway Size(mm)				Machine Room Size(mm)				Reaction Load (kg)				Max. Rise (m)	OH (mm)	Pit Depth (mm)	Machine Room Height (mm)
						Simplex		Duplex		Simplex		Duplex		Machine Room		Pit					
	Person	Load(kg)		CW	CD	HW	HD	HW	HD	MW	MD	MW	MD	M1	M2	P1	P2				
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	26	2000	1100	2375	1700	3000	2500	6100	2500	3350	4100	6450	4100	21800	11100	20700	23200	260	6100	3800	2700
	7	12	900	900	1600	1350	2200	2150	4500	2150	2550	3750	4850	3750	21300	8000	15100	15200	300	7100	5400
13		1000	900	1600	1500	2200	2300	4500	2300	2550	3900	4850	3900	21800	8200	15700	16000	300	7100	5400	2700
13		1000	900	1600	1400	2200	2200	4500	2200	2550	3800	4850	3800	21800	8200	15700	16000	300	7100	5400	2700
15		1150	1100	1800	1500	2450	2300	5000	2300	2800	3900	5350	3900	22200	9500	17200	17800	300	7100	5400	2700
15		1150	1100	2000	1350	2600	2150	5300	2150	2950	3750	5650	3750	21900	9800	17200	17800	300	7100	5400	2700
17		1275	1100	2000	1400	2600	2200	5300	2200	2950	3800	5650	3800	22200	9900	17800	18700	300	7100	5400	2700
18		1350	1100	1800	1700	2450	2500	5000	2500	2800	4100	5350	4100	21700	9200	18200	19400	280	7100	5400	2700
18		1350	1100	2000	1500	2600	2300	5300	2300	2950	3900	5650	3900	21400	9500	18200	19400	280	7100	5400	2700
21		1600	1100	2000	1750	2600	2550	5300	2550	2950	4150	5650	4150	21300	9600	19100	20800	260	7100	5400	2700
21		1600	1100	2100	1600	2700	2400	5500	2400	3050	4000	5850	4000	21100	9800	19100	20800	260	7100	5400	2700
24		1800	1100	2000	1800	2650	2600	5400	2600	3000	4200	5750	4200	21600	9900	19500	21600	260	7100	5400	2700
24		1800	1100	2350	1600	3000	2400	6100	2400	3350	4000	6450	4000	20900	10600	19500	21600	260	7100	5400	2700

Power Supply Plan

[Based on Main Power=380V]

Speed (m/s)	Capacity		Powerx (kW)	Rated Curent (A)	Startup Current (A)	Heat Release (kcal/hr)
	Person	Load[kg]				
3	12	900	24.7	31.2	95.1	2300
	13	1000	26.4	33.4	99.6	2500
	15	1150	28.9	36.6	107.2	2700
	17	1275	31	39.4	114	2900
	18	1350	32.3	41.1	116.8	3000
	21	1600	36.5	46.7	130	3500
	24	1800	39.8	51.4	140.9	3800
	26	2000	42.3	109.4	238	4000
3.5	30	2250	46.5	120.7	256.9	4400
	12	900	28.8	31.8	95.8	2700
	13	1000	30.8	33.9	100.4	2900
	15	1150	33.7	37.2	107.9	3200
	17	1275	36.2	40	114.7	3400
	18	1350	37.7	41.7	117.5	3600
	21	1600	42.6	47.3	130.8	4100
	24	1800	46.5	52	141.7	4500
4	26	2000	49.3	110.5	239.2	4700
	30	2250	54.2	121.8	258.1	5100
	12	900	33.1	32.3	96.5	3100
	13	1000	35.4	34.5	101.1	3300
	15	1150	38.7	37.8	108.7	3700
	17	1275	41.5	40.6	115.5	4000
	18	1350	43.2	42.2	118.3	4100
	21	1600	48.8	47.9	131.6	4700
5	24	1800	53.3	52.6	142.5	5100
	26	2000	56.5	111.6	240.4	5400
	30	2250	62.1	122.9	259.3	5900
	12	900	42.5	66	204.2	3900
	13	1000	45.3	70.6	212.9	4100
	15	1150	49.5	77.7	229.1	4600
	17	1275	53	83.5	237.3	4900
	18	1350	55.1	87.1	235	5100
6	21	1600	62	95.9	232.6	5700
	24	1800	67.6	104.9	244.9	7500
	26	2000	73.2	113.9	261.1	8000
	30	2250	80.2	125.2	264.1	7500
	12	900	51.7	68.3	206.7	4800
	13	1000	55.1	73	215.4	5100
	15	1150	60.1	80	231.7	5600
	17	1275	64.3	85.9	239.9	6000
7	18	1350	66.8	89.4	237.6	6300
	21	1600	75.1	98.1	235	8200
	24	1800	81.8	107.1	247.3	8800
	26	2000	88.5	116.1	263.4	9500
	12	900	51.7	68.3	206.7	4800
	13	1000	55.1	73	215.4	5100
	15	1150	60.1	80	231.7	5600
	17	1275	64.3	85.9	239.9	6000
	18	1350	66.8	89.4	237.6	6300
	21	1600	75.1	98.1	235	8200
	24	1800	81.8	107.1	247.3	8800

Available Functions

Standard	
ADO	Advance Door Opening
ALM	Alarm for Mechanics
ARD	Automatic Car Return Automatic car return parks the car at a defined landing with the doors in a defined state, when the car has no demand.
BFS	Oil Buffer Switch
EMC/EMI	EMC/EMI (Controller and drive)
LW	Load weighing Device
NDG	Nudging Door If the doors are prevented from closing for a fixed period time, the door reversal devices are rendered inoperative.
OLD	Overload Operation When the load of the car exceeds 100% capacity, overload operation is triggered. This operation opens the door, sounds the buzzer, and illuminates the overload lamp. The overload condition is removed when the weight of the car falls below the overload weight.
RLEV	Re-leveling Operation
TCIB1	Top of Car Inspection/Machine Room Inspection
THB	Motor Thermic Device
UCM	Protection Against Uncontrolled Car Movement A traction drive lift shall be provided with a means to prevent uncontrolled movement of the lift car away from the landing with (both) the landing door and the car door not in the locked position.
FAD	Failure Auto Diagnose

Optional	
ACCB	Audible Car Call Button (Sound Car Buttons) Answer back sound.
ANS	Anti-Nuisance Operation Upon activation, all registered car calls are canceled. This is used to prevent the car from answering car calls when no one is in the car.
ATT	Attendant Operation - Attendant operation is activated by a switch located in the car operating panel. The car operated automatically except that judgment as to car loading, door closing, and hall call bypass are made by the attendant. - Door operation and the starting of the car are performed by applying constant pressure to the door close button. Constant pressure applied to the non-stop button bypasses hall calls as the car travels through the hoist way to serve registered car calls. Nudging, door protection devices and load weighing bypass are inhibited.
BMS	BA interface - Standard BA interface protocol is RS485. If customers need other protocol BA board, please make deviation. - If customers need more information, please check Oits Document D7001_BA board user manual.

Optional	
CCC	Car Call Cancellation
CARSIGN	Car Arrival Chime
CARLOCK	Car Door Lock
DHB	Door Hold Button Operation - Door hold button operation acts like a door open button, but the operation keeps the doors open for a defined period of time. This time can be canceled by pressing a door close button or car call button. This operation is not affected by other door monitoring systems. Note that hall calls are re-assigned to other available cars.
EEC	Top of Car Emergency Exit
EFO	Emergency Fireman Operation - All cars not on fireman's service shall be commanded to make an express priority run to the designated return landing as soon as a fireman's car is switched to Emergency Fireman's Service. For "EFO" the cars are parked until the end of Emergency Fireman's Service. - The initiation signal may be triggered by a smoke sensor and /or a keyswitch "EFK" wired in parallel. - Upon recognition of fireman's service, a car shall return non-stop to the designated return landing and park with the doors fully open. Optionally the doors shall be closed again after 15 seconds with the door open button operational. - Door open buttons, door protection devices, car calls, lanterns, and direction lamps shall be extinguished and / or rendered inoperative during Phase I. The Sky II OCSS GEGB will provide the interface for smoke sensor, voltage is 30VDC. The sensor and wiring should be provided by customer.
EFS	Emergency Fireman Service (Automatic) Emergency Fireman's Service Phase II, Type I shall automatically place the car on independent service when the elevator is at the designated return landing from Phase I with the doors fully open.
EPO	Emergency Power Operation - This feature can only be used if the building is equipped with an emergency power generator. In case of regular power supply shut down, this feature provides the following operations: All cars except cars in inspection mode or in side emergency exit operation ("SEE") are successively sent to a selected landing where they open their doors at that landing and then stay idle with open doors. The return to full normal operation is done automatically when regular power supply is reestablished. - Note: If "EFS" (Firemen's Service) is provided, it is obvious that all cars selected for "EFS" will be served with "EPO-C/D".
EQO	Earthquake Operation Earthquake operation is actuated by a trigger which is connected with a controller. The trigger produces a signal when an earthquake happens. Upon receipt of the signal, a car in motion will make a controlled emergency stop, and then move at slow speed in a direction away from the counterweight. When the car reaches the next door zone, the car will stop and open its doors and remove itself from service. The car will remain out of service until manually inspected and reset.
HCM	Hall Chime One gong when the up direction and double gong when the down direction.
ISC	Independent Service Operation Independent service operation removes the car from the group, permitting it to respond to registered car calls while prohibiting the doors from closing unless constant pressure is applied to a start button. While on this operation, the car ignores all hall calls and the hall lanterns do not illuminate.
SSM	Speech Synthesis Module - The speech synthesis option converts car position and direction information into an audible announcement as the elevator arrives at a landing. - Chinese and English are available.