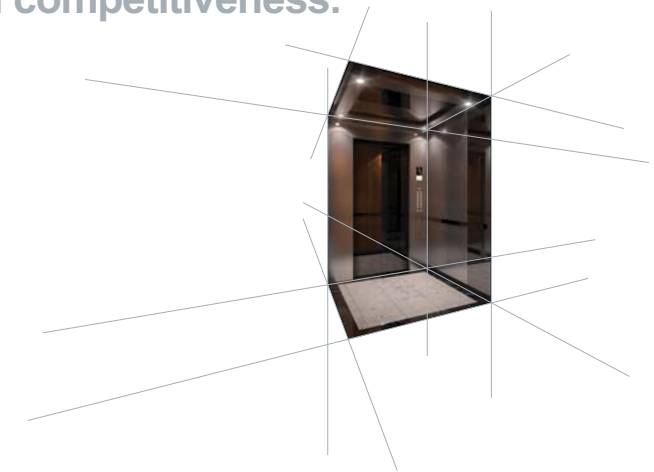




URL : <http://www.i-elevator.co.kr>



+ Creative high technology
and Design innovation is Key
to our global competitiveness.



#101-5, Daemyeong-Ri, Daegot-Myeon, Gimpo-City, Kyeongki-Do, Korea
Tel : ++82-31-997-5970 Fax : ++82-31-997-5980
OSR (One-Stop-Response) : master@i-elevator.co.kr
URL : <http://www.i-elevator.co.kr>

Distributed by





Blue Ocean Strategy

with creative design innovation and high technology

Green Technologies

with compact and Embedded Technologies design future oriented

Fast and Reliable After-Service

from world-wide networks and skilled engineers

Green and High Technologies with Future Oriented makes Comfortable and Pleasant Space.

With more than 20 years experience of elevator manufacturing in Korea, we, I-Elevator Co., Ltd. make your building more comfortable and effective in vertical transportation.

Currently we are offering the latest and state-of-art designs with advanced Green Technologies in various and modern buildings such as an apartment, complex, office buildings and etc. both in domestics and overseas markets.

In order to do more fast and close service to our clients we have made world-wide after-service networks for current markets of each location and keep them updated with advanced and high technologies developed by our R&D Center in Korea. And also these local after service networks of each markets will serve and take care of the clients with 24 hours stand-by and continues improve and develop the after service tools and methods to be more convenience and comfortable in usage of our elevators.

And also to meet fast and short construction delivery we have "One-Stop-Delivery-Service (OSDS)" with special TFT engineering staffs and focus onto satisfaction of client's requirement without failure. With this special OSDS and our sincerity of manufacturing philosophy we can always achieve client's satisfaction and create Blue Ocean markets for mutual benefits between the clients and our company.



3S Mission & Philosophy



SAFE
All Safe



SATISFACTION
Customer
Respect



SERVICE
Sincere
After Service

State-of-Art Technologies applied to the systems.

1. Reliable Traction Machine with Geared and Gearless (PM MOTOR)
2. Control Panel applied with State-of-Art IT Technologies
Decentralized and 32bits Micom system
Compact design and minimized size
Embedded technologies; Touch Panel, LCD, DSC and etc.
Easy & fast analyzing of error code with IMO(Installation and Maintenance Operator)
3. CRT Monitoring System
4. Wireless LCD System

State-of-Art Technologies



PM MOTOR



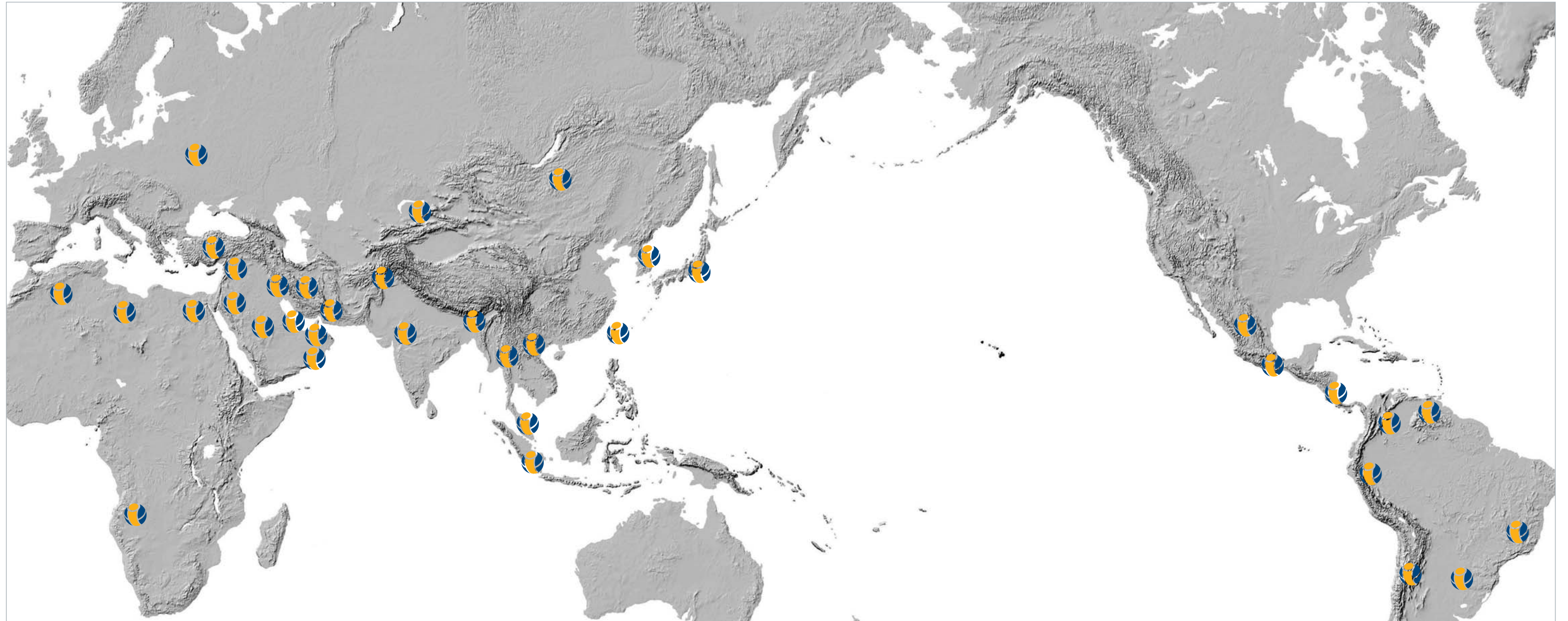
Main PCB



CRT Monitoring System



LCD System



World-Wide Sales and After-Service Network

At the moment, as we, I-Elevator Co., Ltd are focusing on and concentrating in the sales of overseas market as well as domestic market, we have set up with our exclusive agents of each local markets and provide necessary sales and technical information with immediate response through our local exclusive agents and our internet web site (www.i-elevator.co.kr) requested by clients and their engineers related to construction works.

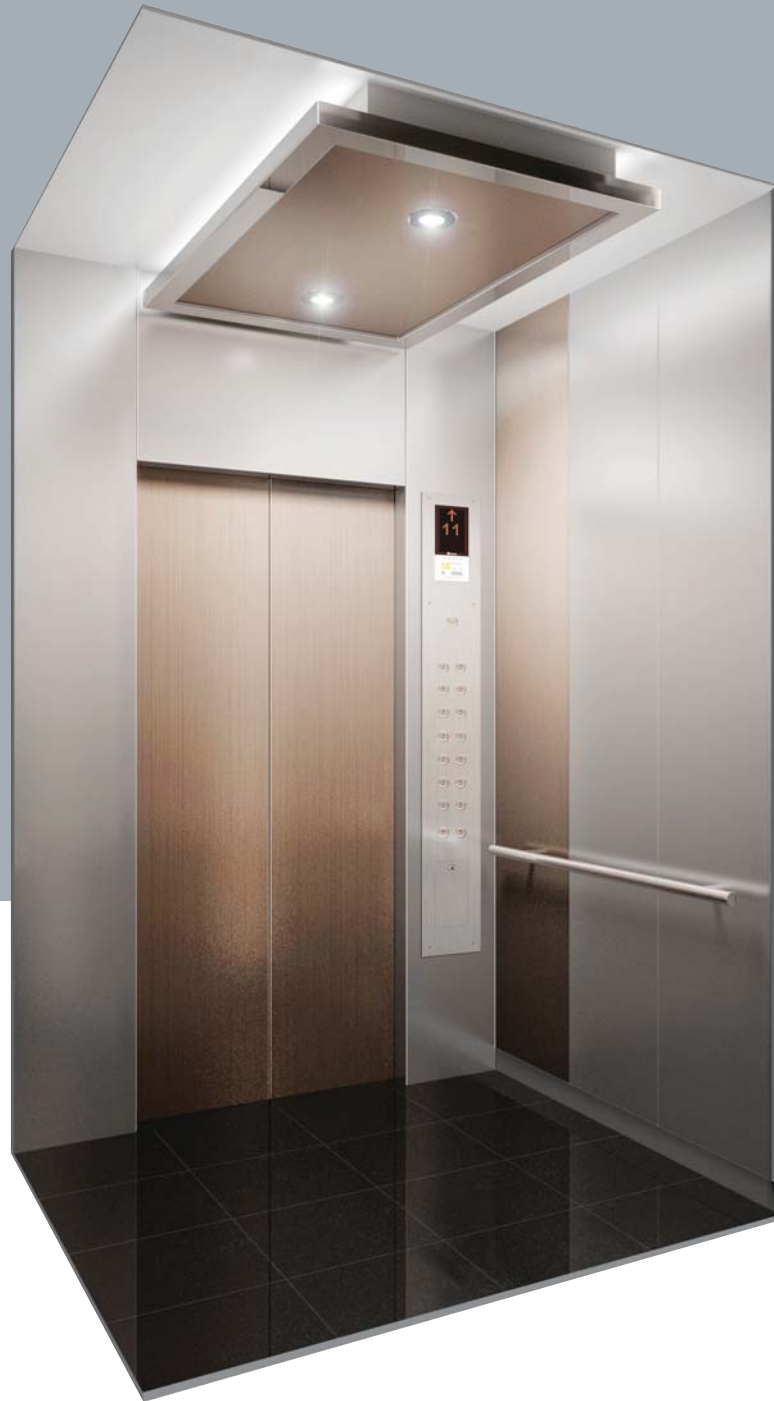
And also we are transferring all of our technologies related to installation and after-service works to engineers of our local exclusive agents so that they can keep providing best quality service of our elevator systems to satisfy our clients in the local market. In details, before entering of each market, we will complete all of related technical training of installation and after-service with our local engineers of each agent at in-house and on the job sites. Through these technical trainings it can make both our company and local exclusive agents to have more reliable technical background and provide best quality of installation and after-service to clients.

Specially, advanced technologies of the distributed and 32 bits Micom system applied to control panels can makes our engineers to do fast analysis of failures cause and repair defective parts together with easy and simple IMO(Installation and Maintenance Operator), which can makes our engineers with highest efficiency of installation and after-service works.

Based on such sales and technical networks mentioned in above any clients in the world can reach to our sales and technical representatives in 24 hours a day. And indeed, we have organized "OSR (One-Stop-Response) System, (master@i-elevator.co.kr)" in order to make immediate response against technical question and troubles requested by clients, and maximize our client's satisfaction in the world.

Service System Flow





I-Elevator Collection
ID17-1

CAGE DESIGN

CEILING	CP-01 (LED Light)
C.O.P	COP-40
DOOR	Steel With Sheet Painted Bronze Hairline
WALL	Painted Steel (Silver), STS Mirror, LED Light, Steel With Sheet Painted Bronze Hairline
HANDRAIL	HR-01
C.P.I	N/A
FLOOR	Engineered Stone

- The printed color could be different from the actual object.
- Please select the color from the color chart supplied by us.
- Etching pattern is subject to change according to car capacity.

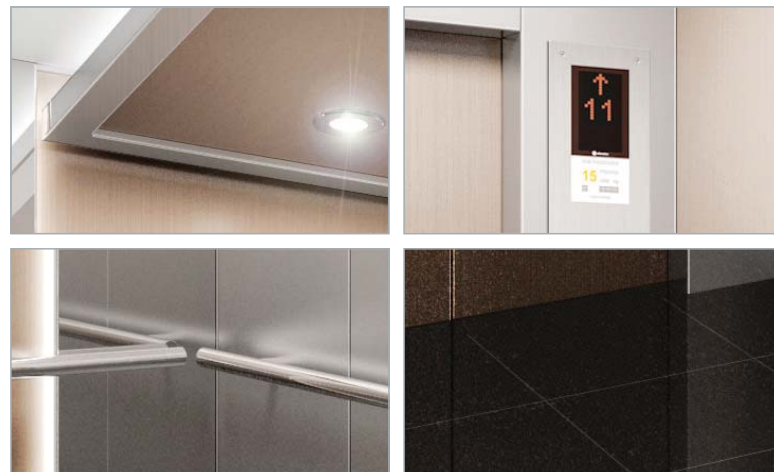


I-Elevator Collection
ID17-2

CAGE DESIGN

CEILING	CP-02 (LED Light)
C.O.P	COP-20
DOOR	STS Mirror
WALL	STS Bead Blast, STS Mirror, Wood Panel
HANDRAIL	HR-01
C.P.I	CPI-01
FLOOR	Engineered Stone

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I-Elevator Collection
ID17-3

CAGE DESIGN

CEILING	CP-03 (LED Light)
C.O.P	COP-30
DOOR	STS Mirror
WALL	STS Hairline, STS Mirror, Art Metal
HANDRAIL	HR-01
C.P.I	CPI-03
FLOOR	Decotile

- The printed color could be different from the actual object.
- Please select the color from the color chart supplied by us.
- Etching pattern is subject to change according to car capacity.

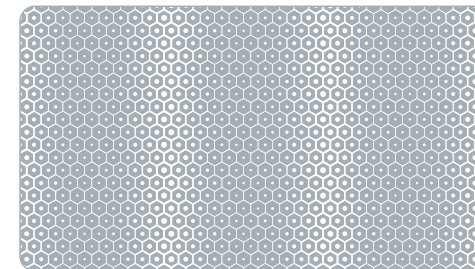


I-Elevator Collection
ID17-4

CAGE DESIGN

CEILING	CP-04 (LED Light)
C.O.P	COP-10
DOOR	STS Hairline Etching (IE-08)
WALL	STS Hairline, STS Hairline Etching (IE-08)
HANDRAIL	HR-01
C.P.I	CPI-02
FLOOR	Decotile

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I-Elevator Collection
ID15-1

CAGE DESIGN

CEILING	CD-01 (LED Light)
C.O.P	COP-40
DOOR	Ti-Black Hairline
WALL	Ti-Black Mirror, Ti-Bronze Bead Blast, Wood Panel
HANDRAIL	HR-01
C.P.I	N/A
FLOOR	Decotile

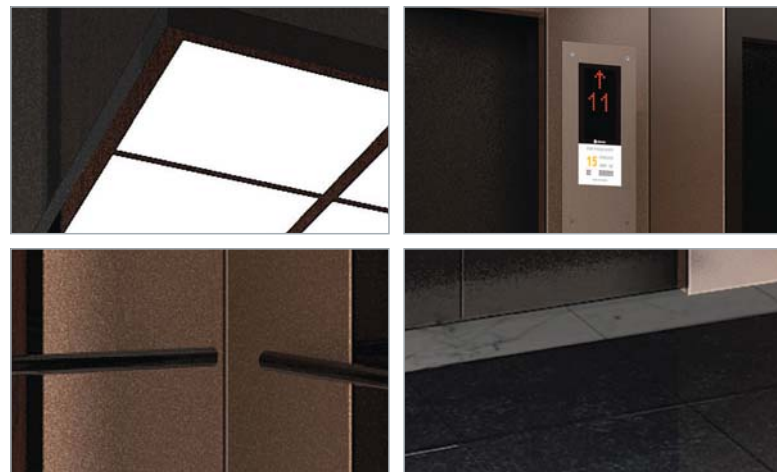
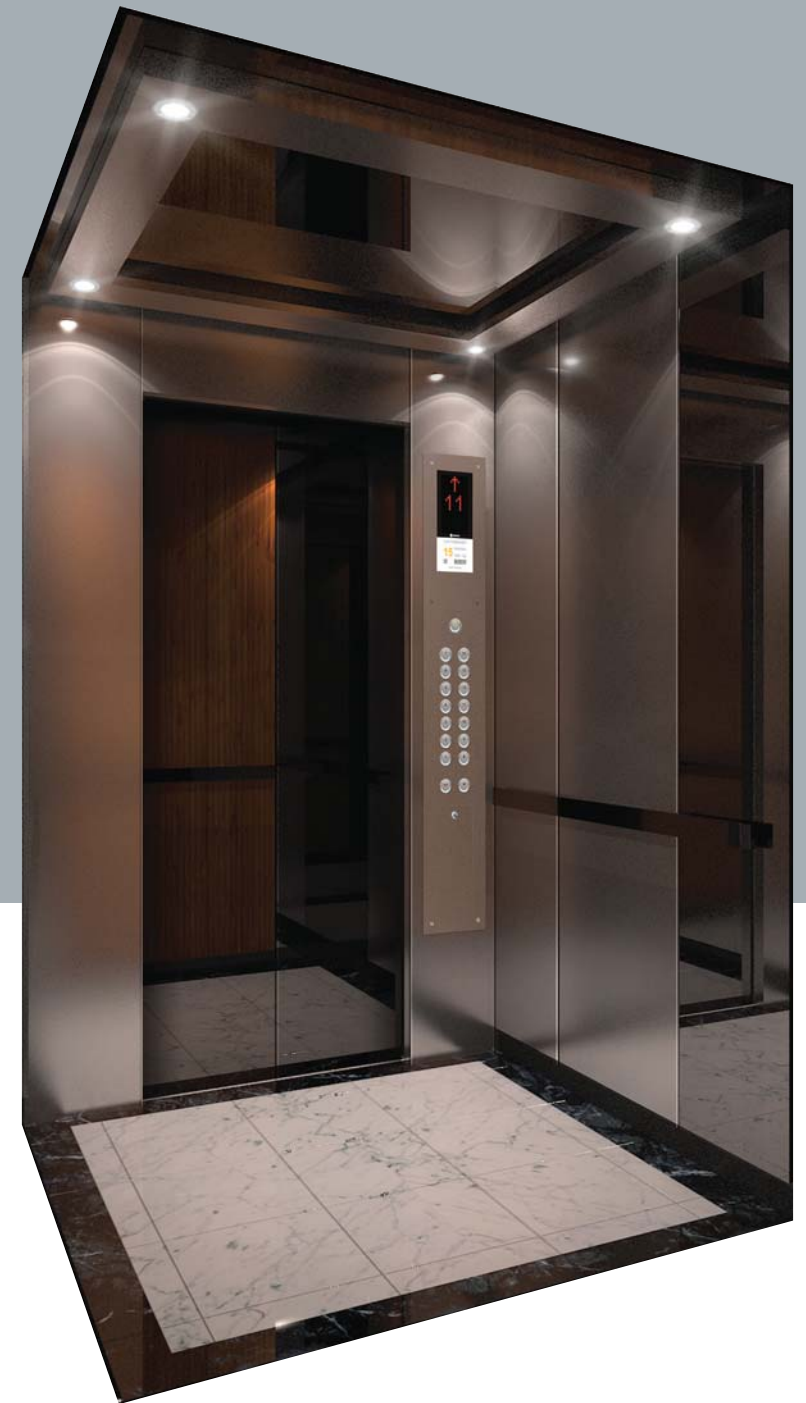
- The printed color could be different from the actual object.
- Please select the color from the color chart supplied by us.
- Etching pattern is subject to change according to car capacity.

I-Elevator Collection
ID15-2

CAGE DESIGN

CEILING	CD-02 (LED Light)
C.O.P	COP-40
DOOR	Ti-Black Mirror
WALL	Ti-Black Mirror, Ti-Bronze Bead Blast, Wood Panel
HANDRAIL	HR-04
C.P.I	N/A
FLOOR	Decotile

- The printed color could be different from the actual object.
- Please select the color from the color chart supplied by us.
- Etching pattern is subject to change according to car capacity.



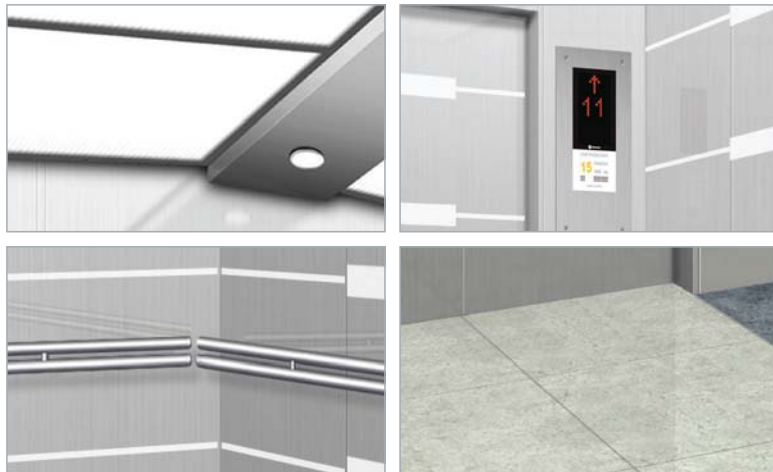


I-Elevator Collection
ID12-1

CAGE DESIGN

CEILING	CS-01
C.O.P	COP-40
DOOR	STS Hairline Etching (IE-12)
WALL	STS Hairline, STS Hairline Etching (IE-12)
HANDRAIL	HR-02
C.P.I	N/A
FLOOR	Decotile

- The printed color could be different from the actual object.
- Please select the color from the color chart supplied by us.
- Etching pattern is subject to change according to car capacity.

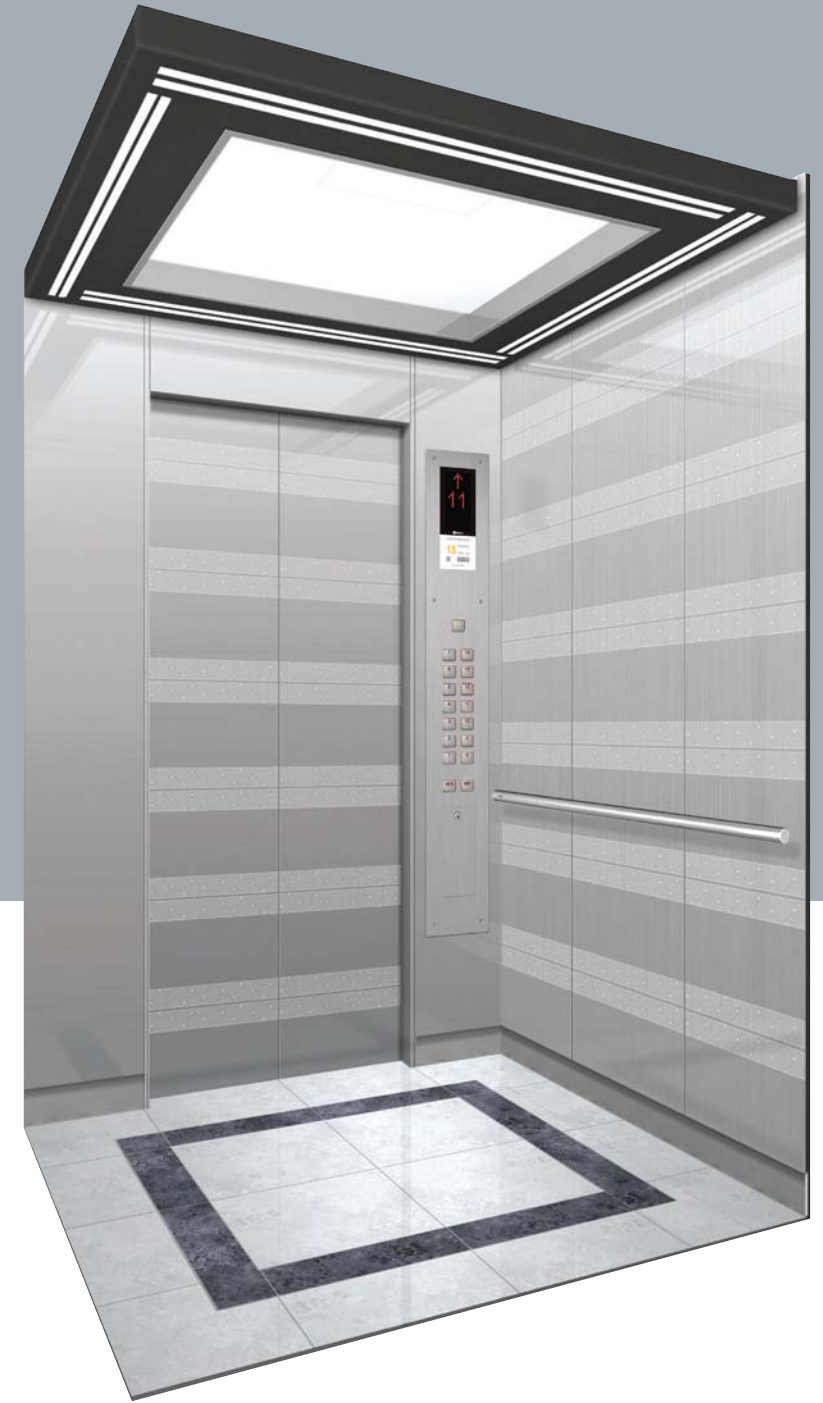
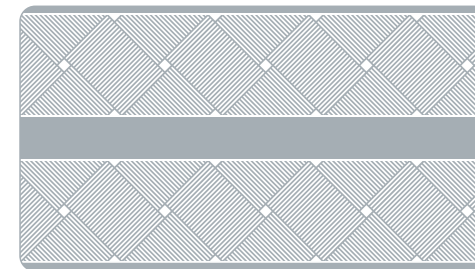


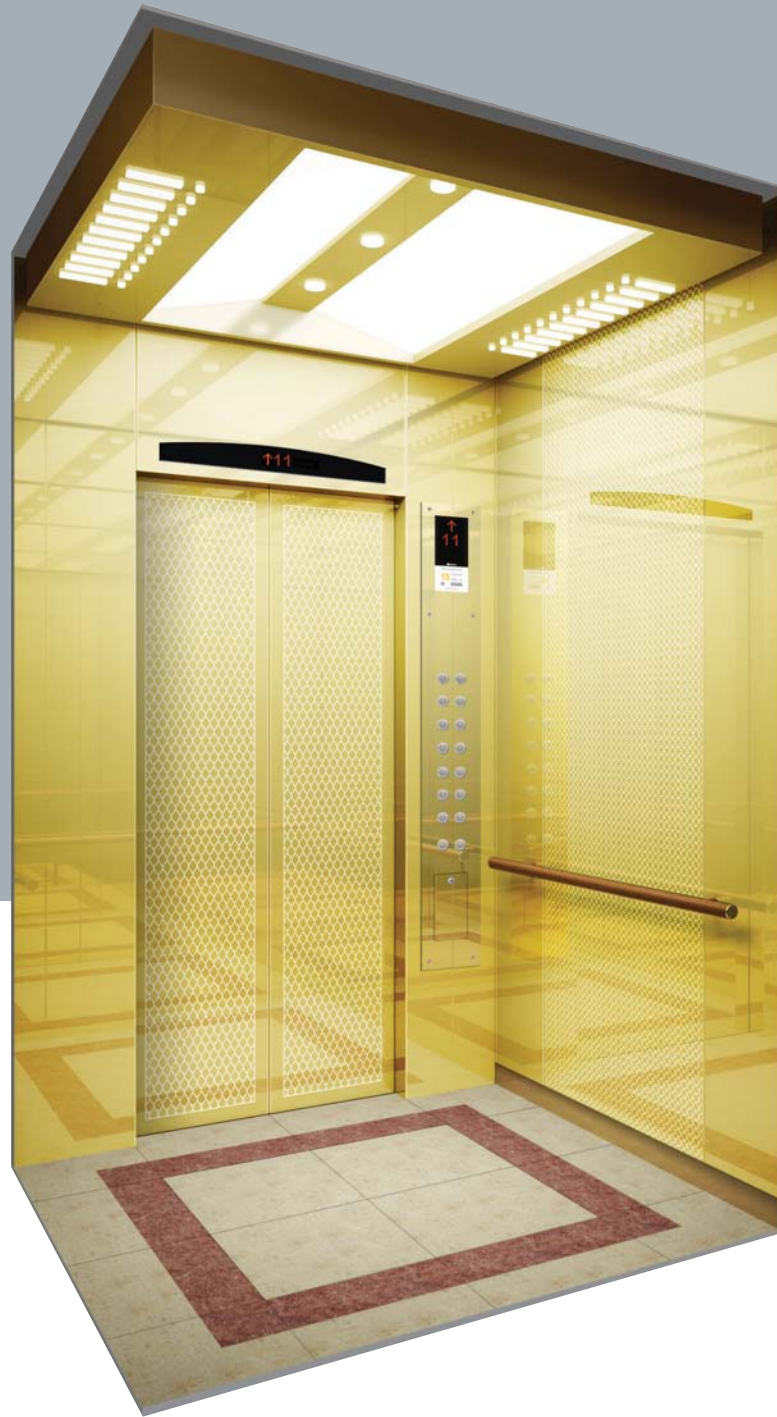
I-Elevator Collection
ID12-2

CAGE DESIGN

CEILING	CS-02
C.O.P	COP-10
DOOR	STS Hairline Etching (IE-03)
WALL	STS Hairline, STS Hairline Etching (IE-03)
HANDRAIL	HR-01
C.P.I	N/A
FLOOR	Decotile

- The printed color could be different from the actual object.
- Please select the color from the color chart supplied by us.
- Etching pattern is subject to change according to car capacity.



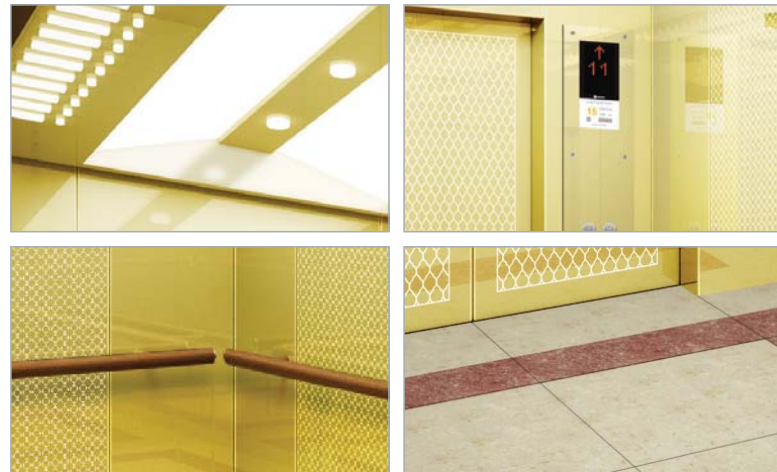
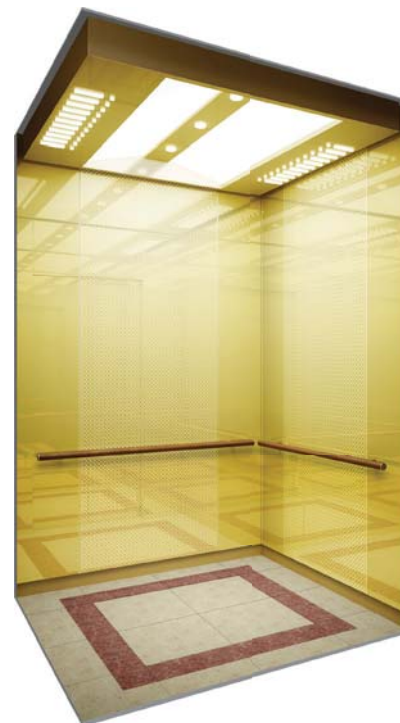
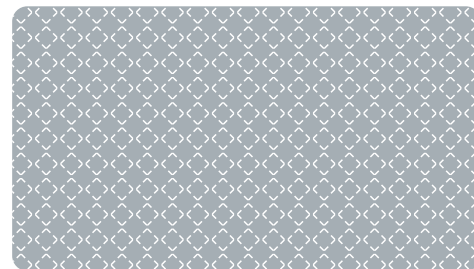


I-Elevator Collection
ID12-3

CAGE DESIGN

CEILING	CS-03
C.O.P	COP-20
DOOR	Ti-Gold Mirror Etching (IE-05)
WALL	Ti-Gold Mirror, Ti-Gold Mirror Etching (IE-15)
HANDRAIL	HR-05
C.PI	CPI-01
FLOOR	Decotile

- The printed color could be different from the actual object.
- Please select the color from the color chart supplied by us.
- Etching pattern is subject to change according to car capacity.

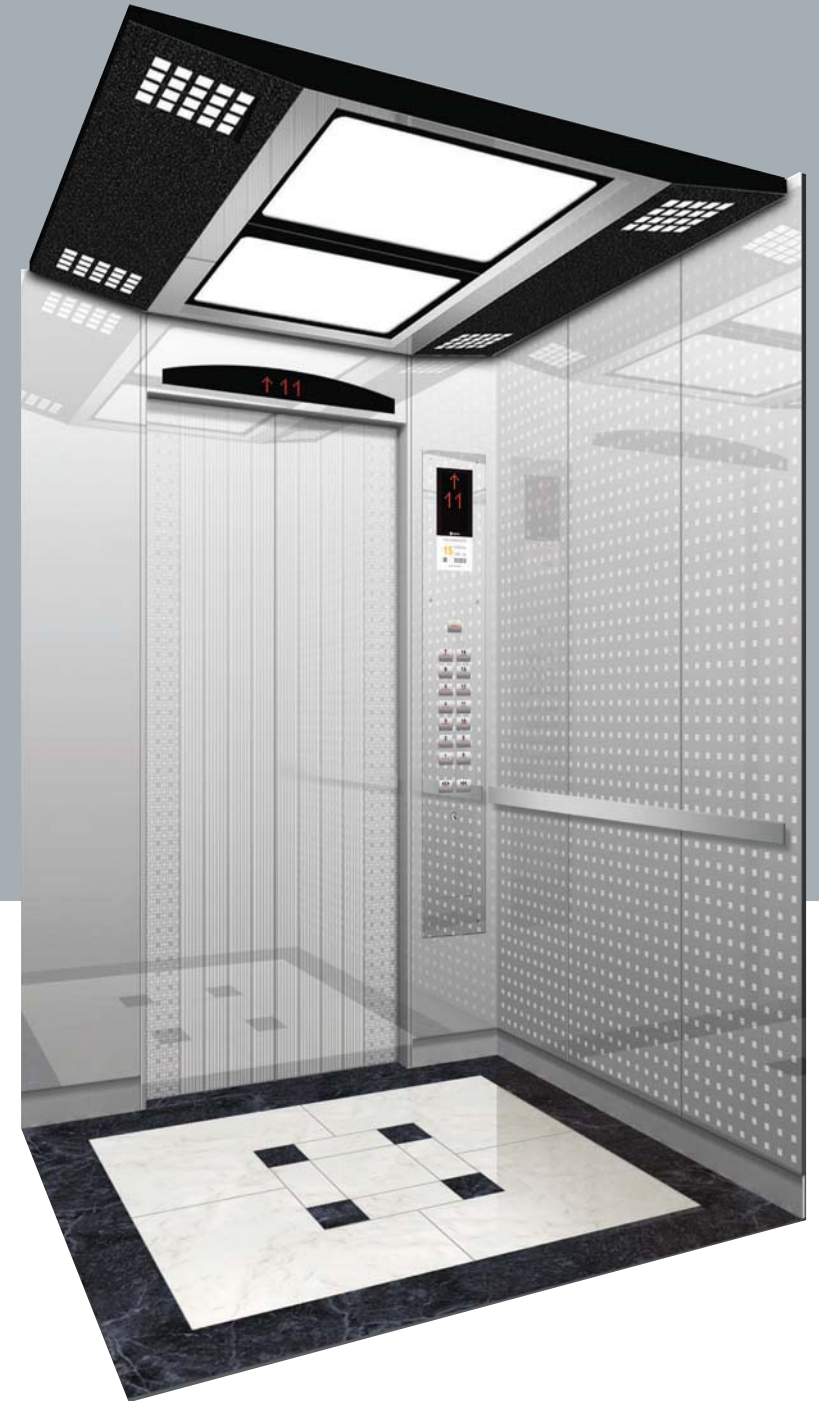
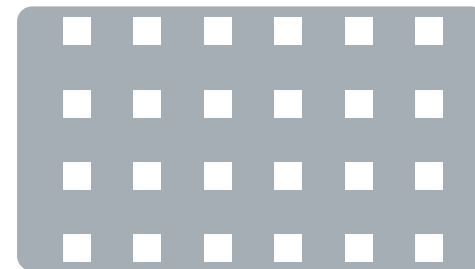


I-Elevator Collection
ID12-4

CAGE DESIGN

CEILING	CS-04
C.O.P	COP-30
DOOR	STS Mirror Etching (IE-13)
WALL	STS Mirror, STS Mirror Etching (IE-02)
HANDRAIL	HR-04
C.PI	CPI-01
FLOOR	Decotile

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I-Elevator Collection

Hospital Lift

CAGE DESIGN

CEILING	CS-06
C.O.P	COP-30, COP-30H
DOOR	STS Hairline Etching (IE-10)
WALL	STS Hairline Etching (IE-10)
HANDRAIL	HR-01
FLOOR	Decotile

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I-Elevator Collection

Freight Lift

CAGE DESIGN

CEILING	Painted Steel
C.O.P	COP-20
DOOR	STS Hairline / 2 Side Open
WALL	STS Hairline
HANDRAIL	HR-04
FLOOR	Steel Checked Plate

HALL DESIGN

DOOR	STS Hairline / 2 Side Open
JAMB	STS Hairline / J200
BUTTON	HIB-20



CAR DOOR (Option)

I-Elevator Collection

Freight Lift

CAGE DESIGN

CEILING	Painted Steel
C.O.P	COP-10
DOOR	STS Hairline / 3 UP Open
WALL	STS Hairline
HANDRAIL	HR-04
FLOOR	Steel Checked Plate

HALL DESIGN

DOOR	STS Hairline / 3 UP Open
JAMB	STS Hairline / J200
BUTTON	HIB-10

- The printed color could be different from the actual object.
- Please select the color from the color chart supplied by us.
- Etching pattern is subject to change according to car capacity.



I-Elevator Collection

Car Lift

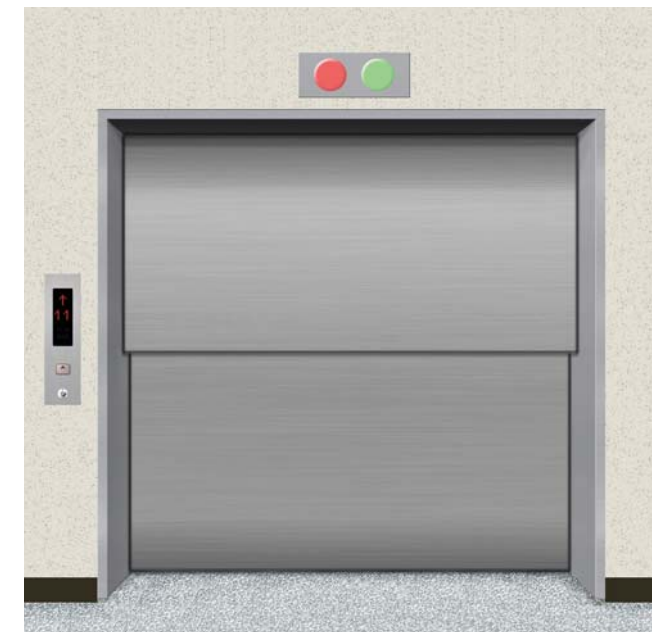
CAGE DESIGN

CEILING	Painted Steel
C.O.P	COP-10C
DOOR	STS Hairline / 2 UP Open
WALL	STS Hairline
FLOOR	Steel Checked Plate

HALL DESIGN

DOOR	STS Hairline / 2 UP Open
JAMB	STS Hairline / J200
BUTTON	HIB-10
HALL SIGNAL	HS-01

- The printed color could be different from the actual object.
- Please select the color from the color chart supplied by us.
- Etching pattern is subject to change according to car capacity.





I-Elevator Collection

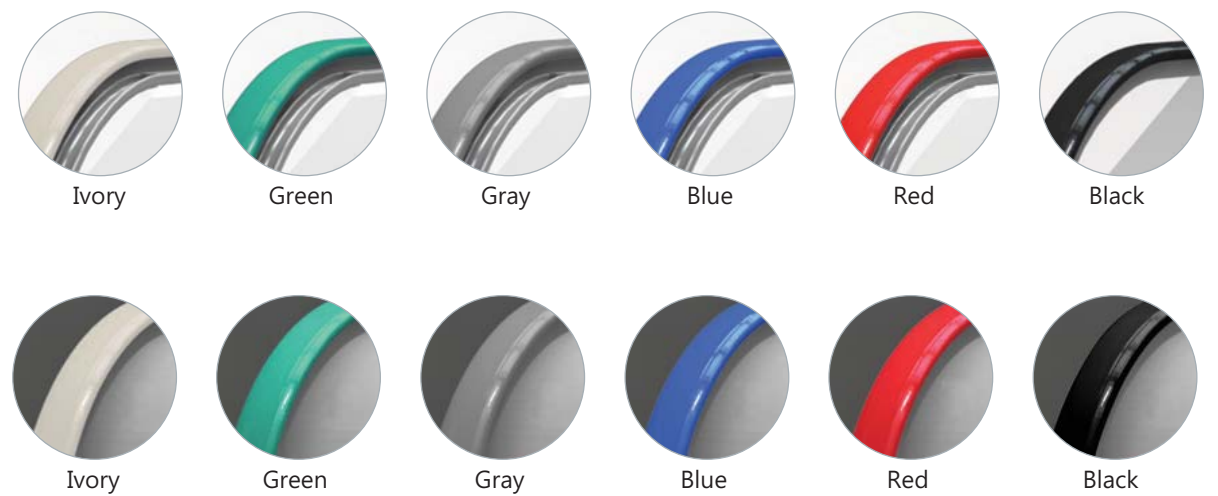
Escalator

Main Specifications

Model	GSW-600 / GSW-800 / GSW-1000
Installation Place	Indoor / Out door
Step Width(mm)	600 / 800 / 1000
Capacity(man/hr)	4500 / 6750 / 9000
Vertical Height	1.0m - 7.5m
Inclination Degree	30°, 35°
Speed (m/min)	30 m/min (0.5m/Sec)
Power supply	380V, 50 Hz
lighting source	220V, 50 Hz

Appearance Design

Type	TG / TGL / TGB
Interior Panel	Tempered Glass 10mm / OStainless hairline Steel
Deck (Inner,Outer)	Stainless hairline Steel
Skirt Panel	Stainless hairline Steel
Handrail	Black Color(Standard) , other Color for Optional
Handrail Lighting	N/A / Fluorescent lamp / N/A
Step	Stainless Steel-Black(standard) , Aluminium Die-casting Pressing
Landing Plate	Stainless steel board(Standard), Etched stainless(option)
Comb	Synthetic resin(yellow)
Exterior Panel	by others (Local supply)
Control Panel	Red emergency stop button & Key switch



Hall & Cabin Design

HALL DESIGN

CAR CEILING



HALL DESIGN J300	
DOOR	Ti-Gold Mirror Etching (IE-05)
JAMB	Ti-Gold Mirror
HALL BUTTON	HB-10
H.P.I	HPI-01



HALL DESIGN J301	
DOOR	STS Mirror Etching (IE-13)
JAMB	STS Mirror
HALL BUTTON	HB-30
H.P.I	HPI-03



HALL DESIGN J200	
DOOR	STS Hairline Etching (IE-14)
JAMB	STS Hairline
HALL BUTTON	HIB-20S



HALL DESIGN J100	
DOOR	STS Hairline
JAMB	STS Hairline
HALL BUTTON	HIB-40S



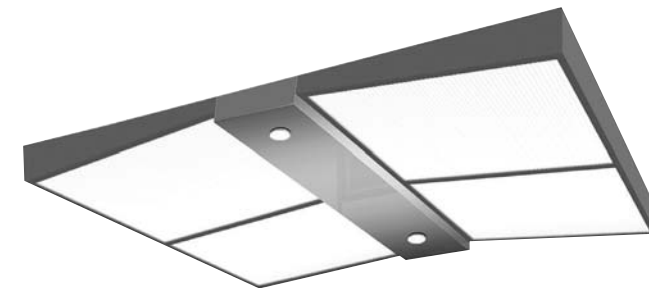
CP-02



CP-03



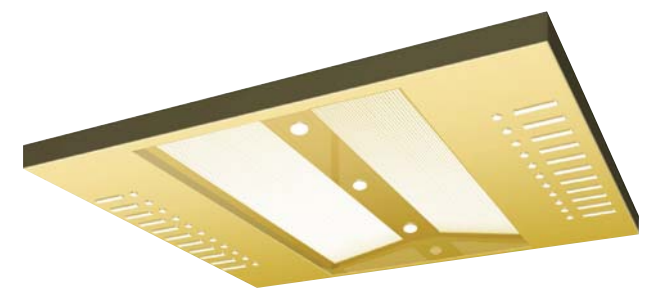
CP-04



CS-01



CS-02



CS-03



CS-04



CS-05

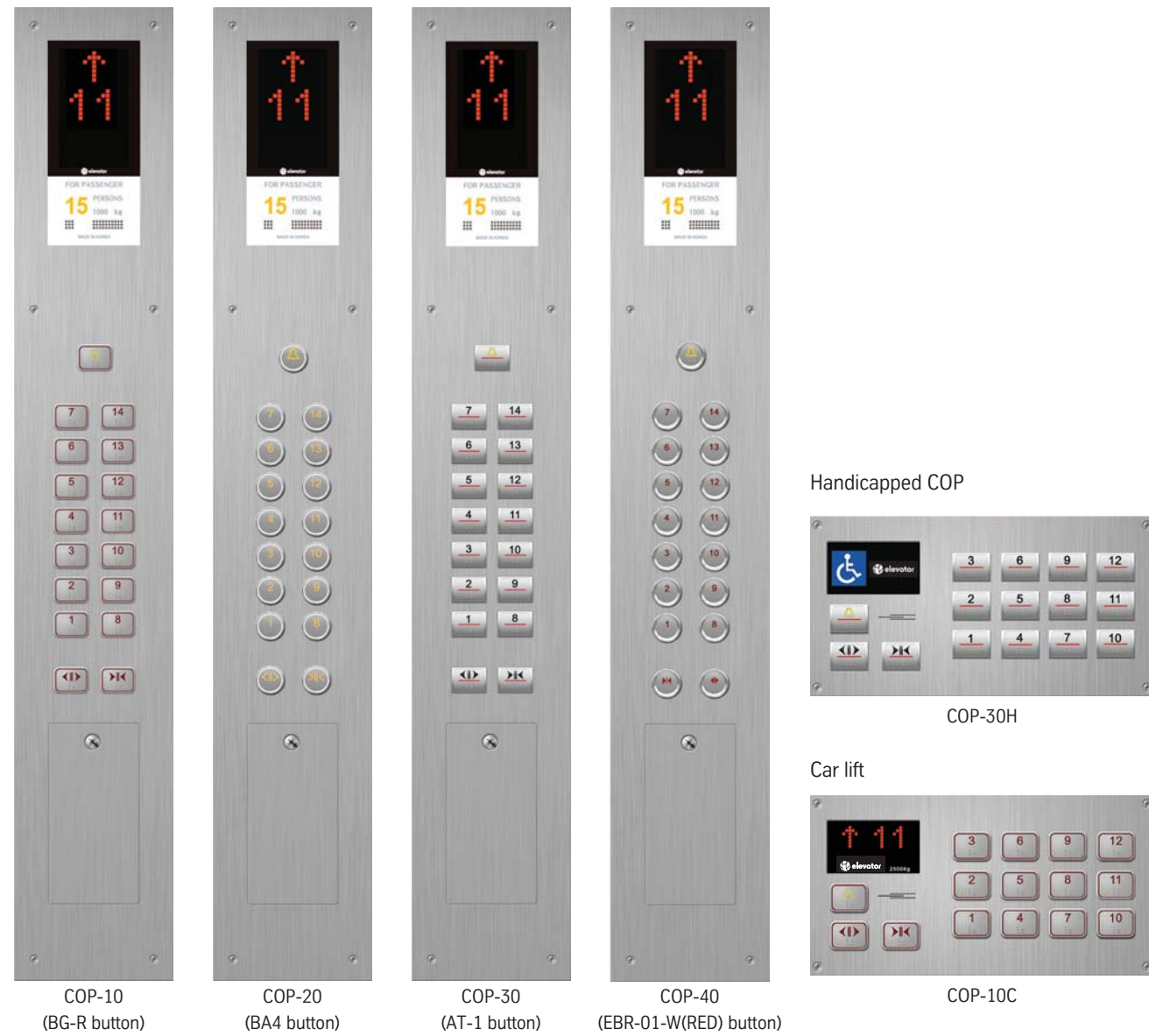


CS-06

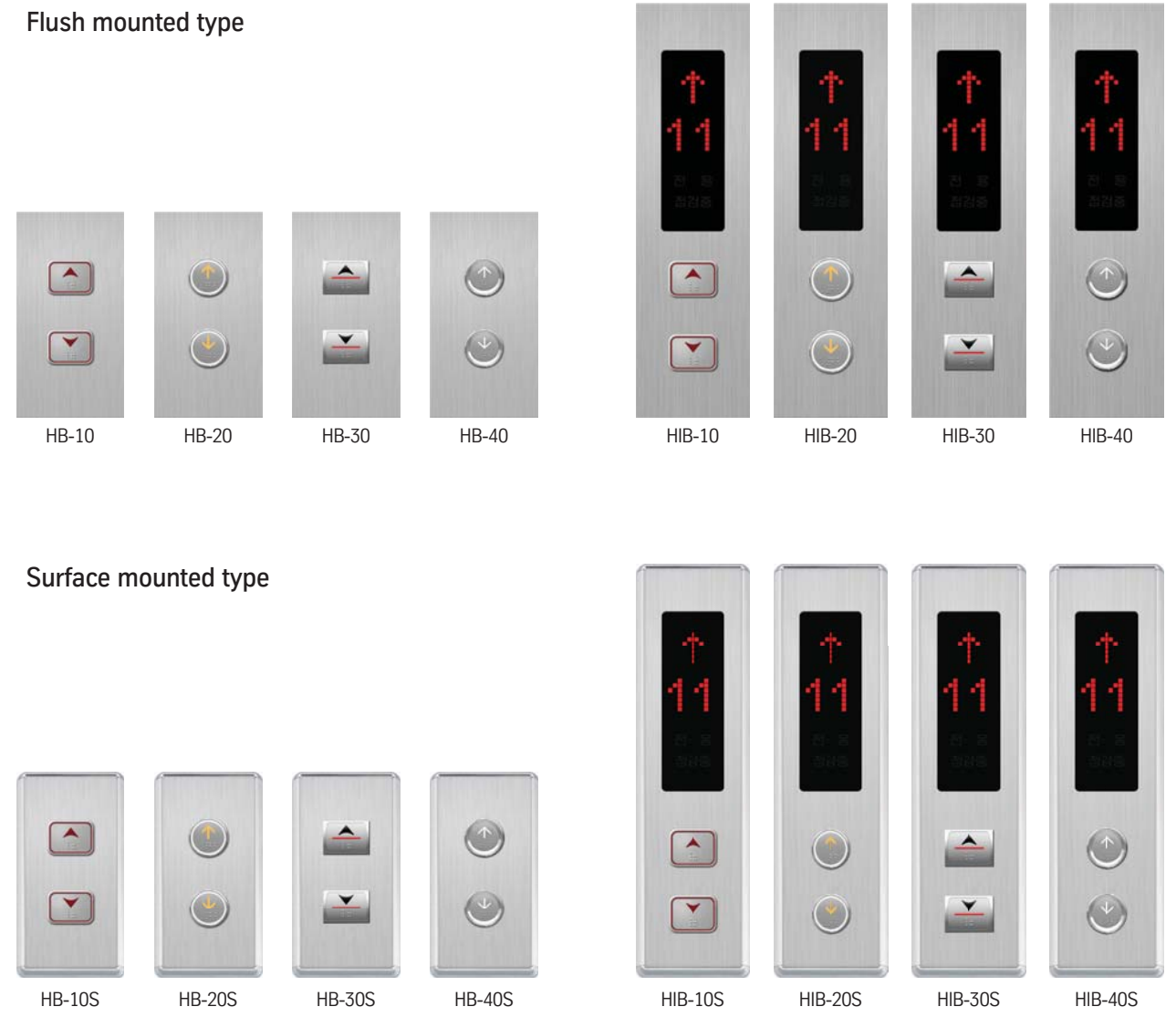
• Finished color and design may be slightly different from the printed illustration.

Hall & Cabin Design

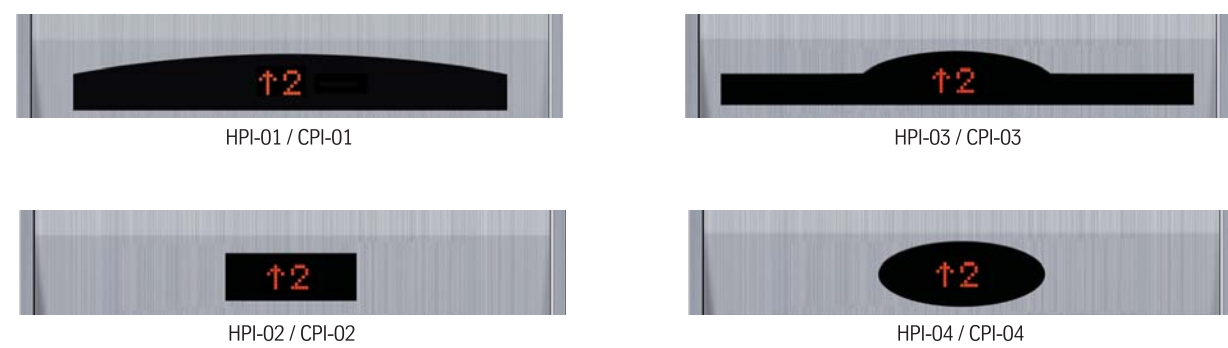
CAR OPERATING PANEL



HALL BUTTON / HALL INDICATOR BUTTON



HALL / CAR POSITION INDICATOR

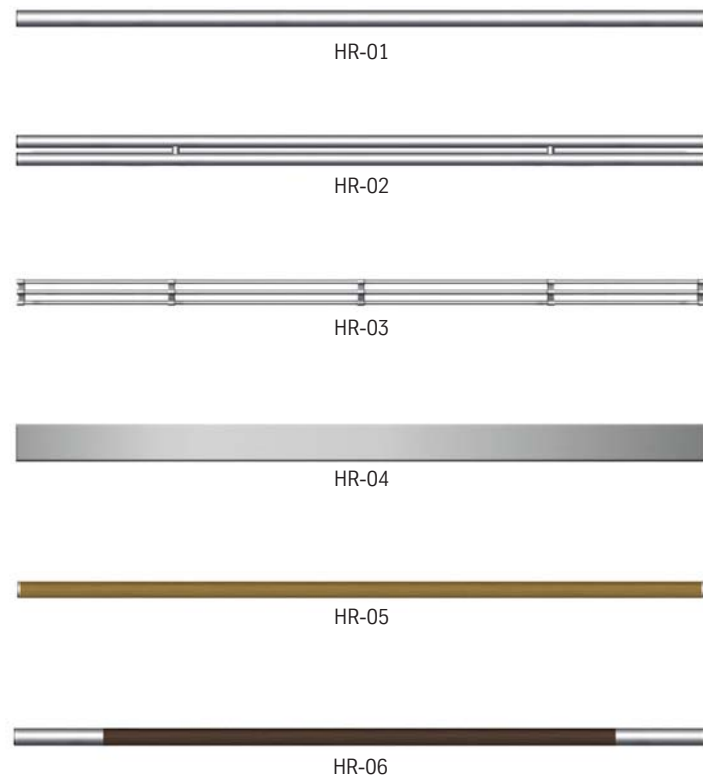


HALL LANTERN

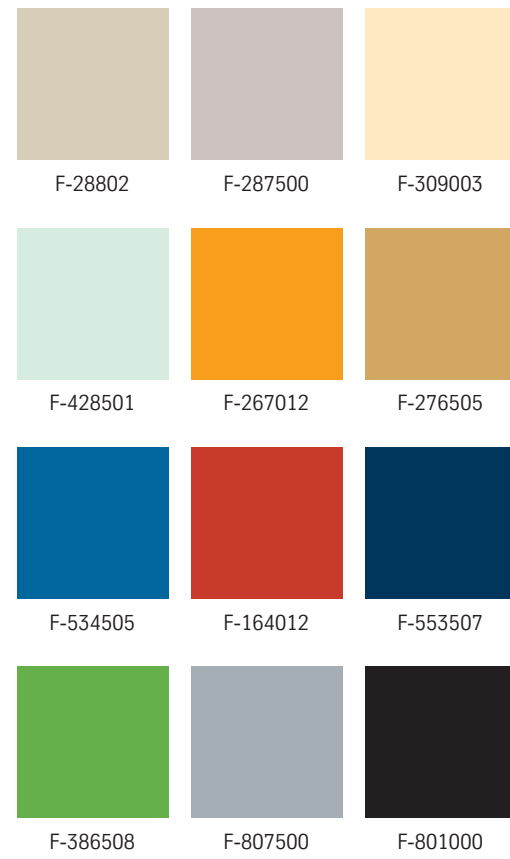


Hall & Cabin Design

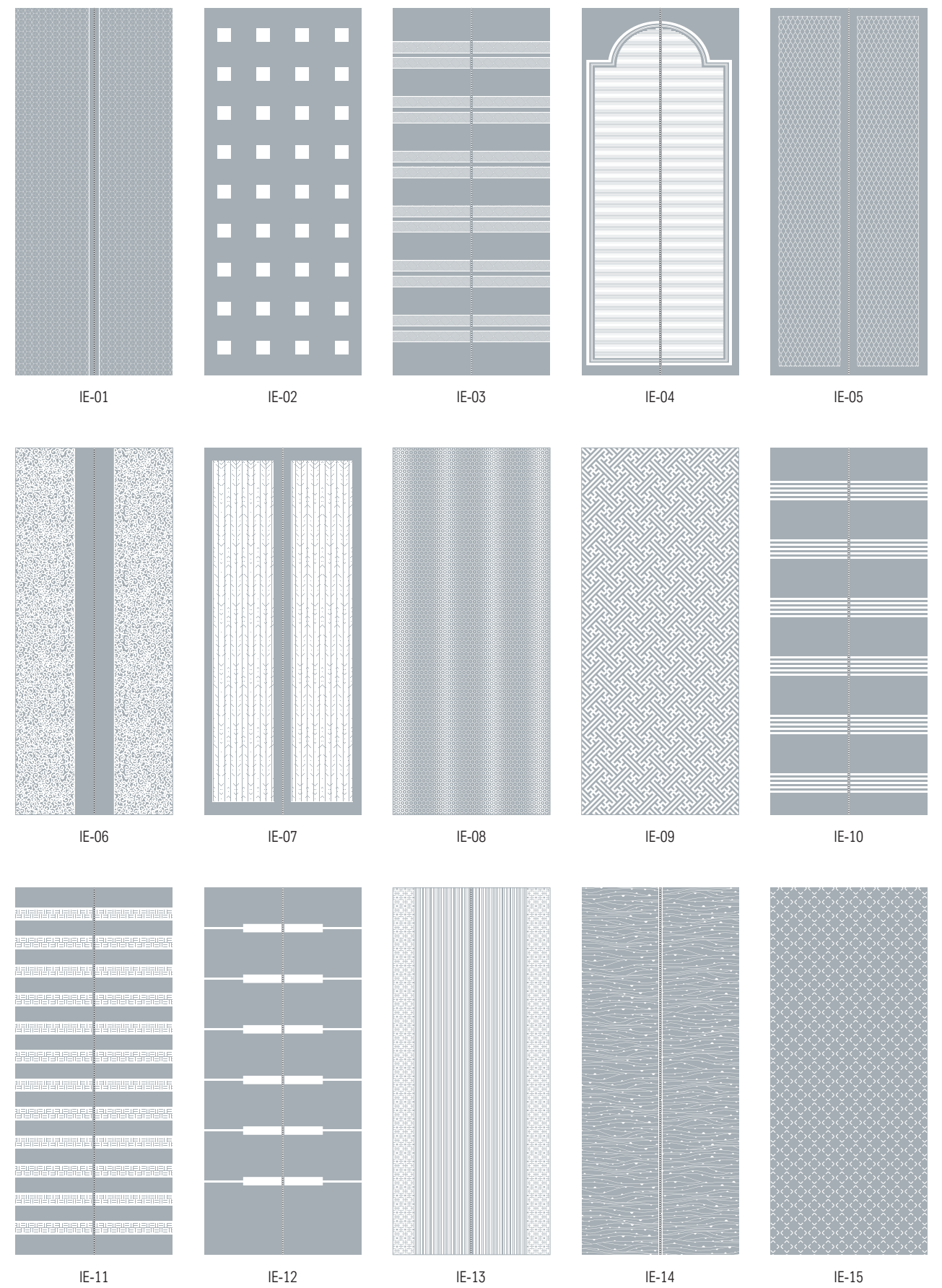
HANDRAIL



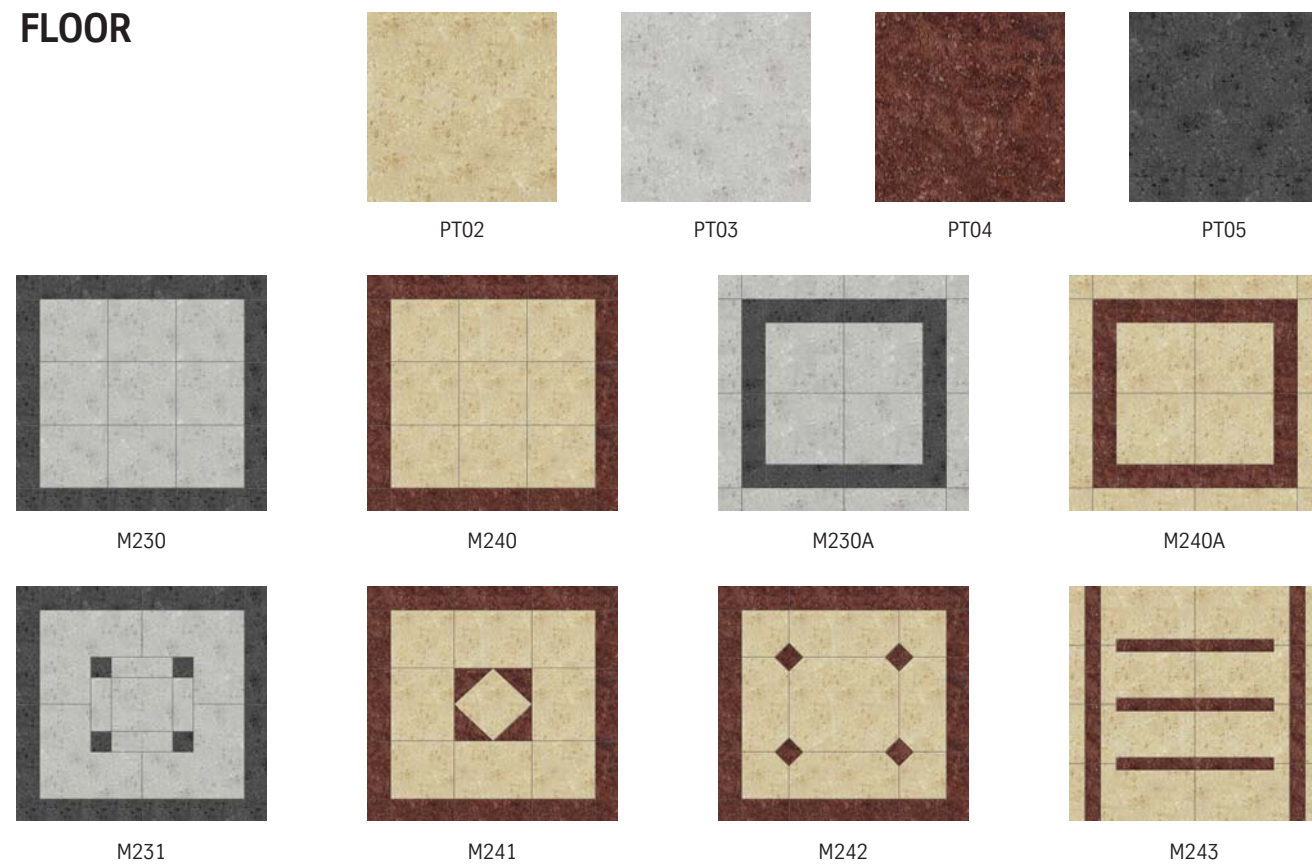
COLOR PAINTING



ETCHING PATTERN



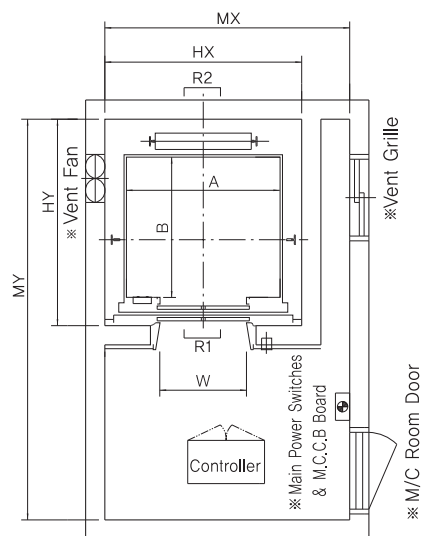
FLOOR



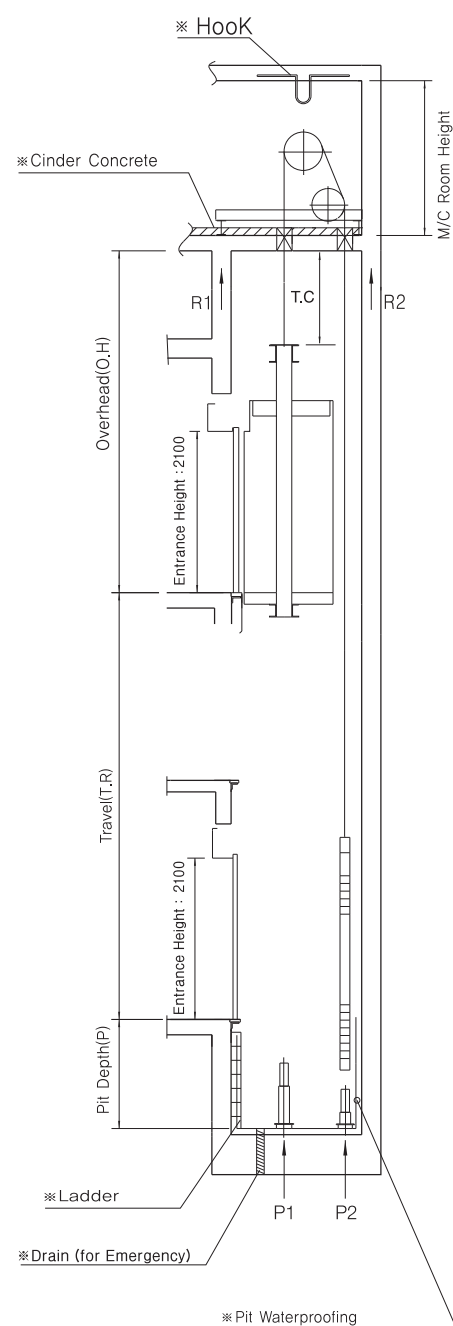
• Finished color and design may be slightly different from the printed illustration.

Planning Information (Passenger Lift)

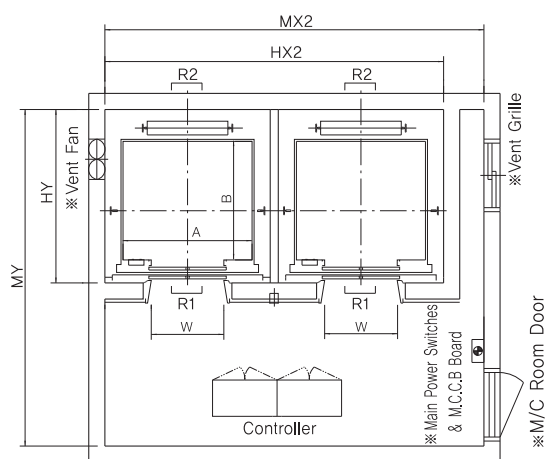
Plan of Hoistway & Machine Room (1Car)



Section of Hoistway



Plan of Hoistway & Machine Room (2Car)



• Done by others

• Hoistway and Machine Room Size(Minimum Size)

Rated speed(m/min)	Overhead Height(O.H)	Pit Depth(P)	Top Clearance(T.C)	Machine Room Height
45	4400	1250	1200	2200
60	4600	1550	1400	2200
90	4800	1850	1600	2450
105	5000	2150	1800	2450
120	5400	2150	1850	2700
150	5700	2450	2050	2700
180	6100	2750	2350	3000

• The above size is based on KS

• Standard Specification(Minimum Size)

Rated Speed (m/min)	Type	Load (kg)	Clear Opening	Hoistway Inside Dimension									Machine Room Inside Dimension						Machine Room Reactor Power (kg)		Reaction force on the PIT (kg)				
				Car Inside			1 CAR			2 CAR			3 CAR			1 CAR		2 CAR		3 CAR		R1	R2	P1	P2
				W	A	B	HX	HY	HX2	HY	HX3	HY	MX	MY	MX2	MY	MX3	MY							
60 ~ 105	6	450	800	1400	850	1450	1450	1450	1450	3200	3200	3200	3600	2000	3586	2930									
	8	550			1030	1630	1630	1630	1630	3400	3400	3400	4050	2500	4367	3169									
	9	600	900	1600	1100	1700	3750	1700	5600	1700	2100	3450	4050	6100	3450	4100	2500	4533	3271						
	10	680			1250	1850	1850	1850	3600	3600	3600	4200	2800	4884	3494										
	11	750	1000	1800	1350	1950	1950	1950	1950	3700	3700	3700	4550	2900	5065	3612									
	13	900			1500	2000	2100	4150	2100	6350	2100	2300	3850	4450	3850	6900	3850	5450	4300	6750	4810				
	17	1150	1100	2000	1800	2250	2200	4850	2200	7250	2200	2650	3950	5150	3950	7600	3950	8000	5200	8649	6276				
	17	1150			1350	2350	2050	5250	2050	7850	2050	2850	3800	5550	3800	8400	3800								
	20	1350	1100	1800	1700	2400	4850	2400	7250	2400	2650	4150	5150	4150	7600	4150	8900	6000	9300	6674					
	20	1350			1500	2200	2200	5250	2200	7850	2200	2850	3950	5550	3950	8400	3950								
24	1600	900	1600	1750	2550	2450	5250	2450	7850	2450	2850	4200	5550	4200	8400	4200	10200	7000	10159	7224					
24	1600			2150	2700	2300	5550	2300	8300	2300	3000	4050	5850	4050	8800	4050									
120 ~ 150	13	900	900	1600	1350	2200	2150	4550	2150	6900	2150	2800	4100	5200	4100	7500	4100	11100	7550	13250	10100				
	15	1000			1500	2300	2300	4950	2300	7500	2300	3000	4200	5600	4200	8100	4200	11650	7850	13950	10550				
	17	1150	1100	1800	1500	2400	2500	4950	2500	7500	2500	3000	4400	5600	4400	8100	4400	12300	8250	16600	12650				
	20	1350			1700	2500	2500	5350	2550	8100	2550	3200	4500	6000	4500	8700	4500	13100	8850	18050	13550				
24	1600	900	1600	1350	2200	2150	4550	2150	6900	2150	2800	4100	5200	4100	7500	4100	11100	7550	13250	10100					
15	1000			1500	2300	2300	4950	2300	7500	2300	3000	4200	5600	4200	8100	4200	11650	7850	13950	10550					
180	17	1150	1100	1800	1500	2400	2500	4950	2500	7500	2500	3000	4400	5600	4400	8100	4400	12300	8250	16600	12650				
	20	1350			1700	2500	2500	5350	2550	8100	2550	3200	4500	6000	4500	8700	4500	13100	8850	18050	13550				
	24	1600	900	1600	1350	2200	2150	4550	2150	6900	2150	2800	4100	5200	4100	7500	4100	11100	7550	13250	10100				
	15	1000			1500	2300	2300	4950	2300	7500	2300	3000	4200	5600	4200	8100	4200	11650	7850	13950	10550				
24	1600	1100	2000	1750	2600	2550	5350	2550	8100	2550	3200	4500	6000	4500	8700	4500	13100	8850	18050	13550					
24	1600			2000	1750	2600	2550	5350	2550	8100	2550	3200	4500	6000	4500	8700	4500	13100	8850	18050	13550				

• Power capacity

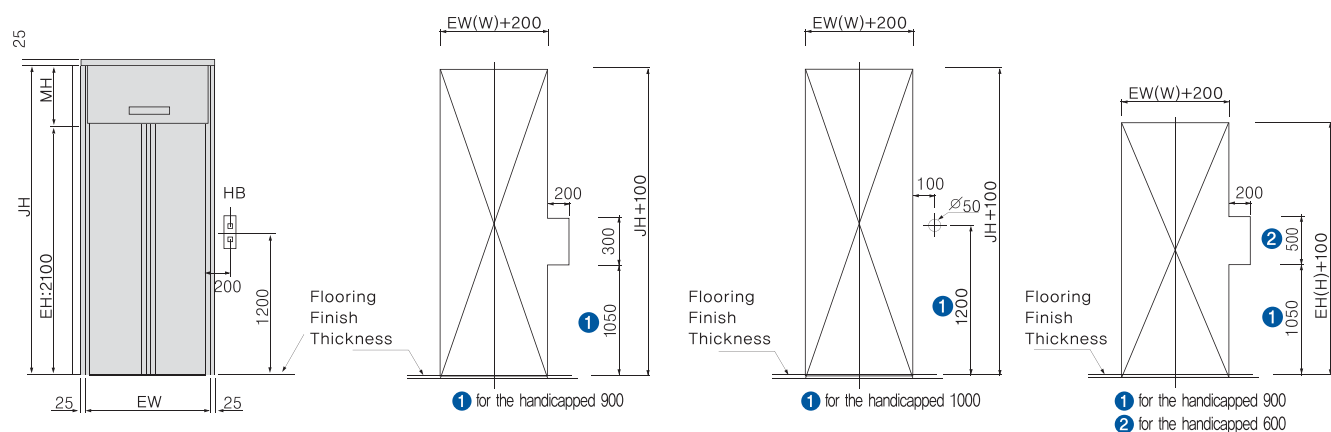
Rated Speed (m/min)	Type	Load (kg)	Motor Output (kw)	MCCB(A)		Power Supply(KVA)		Service Wire Size(mm²)		Earth Size(mm²)	M/C Room Heat Calorie (kcal/hr)	Starting Power (KVA/set)
				1 CAR	2 CAR	1 CAR	2 CAR	1 CAR	2 CAR			
				380V	380V	380V	380V	380V	380V			
60	6	450	5.5	20	30	4.8	8.8	6	6	6	675	8.8
	8	550	5.5	20	30	5.9	10.8	6	10	6	825	10.4
	9	600	5.5	20	40	5.9	10.8	6	10	6	825	10.4
	10	700	7.5	30	40	8.0	14.5	6	10	6	1050	13.6
	11	750	7.5	30	40	8.0	14.5	6	10	6	1050	13.6
	13	900	9.5	40	50	12.5	21.6	10	16	6	1500	20.0
	15	1000	9.5	40	60	12.5	21.6	10	16	6	1500	20.0
	17	1150	11	40	60	13.2	24.0	10	16	6	1725	21.9
	20	1350	15	50	100	18.6	39.9	16	35	6	2588	29.9
	24	1600	18.5	60	125	24.0	43.8	16	50	6	4200	39.8
90	8	550	7.5	30	40	8.0	14.5	6	16	6	1050	13.6
	9	600	9.5	30	50	9.6	17.4	6	16	6	1350	16.6
	10	700	9.5	40	60	11.2	20.3	10	16	6	1575	19.1
	11	750	11	40	60	12.6	22.9	10	16	6	1688	21.4
	13	900	11	40	75	15.1	27.5	10	25	6	2025	25.7
	15	1000	13.5	50	75	16.2	29.4	16	25	6	2363	27.6
	17	1150	15	50	100	18.0	32.8	16	35	6	2588	29.9
	20	1350	18.5	60	125	24.0	43.8	16	35	6	4200	39.8
105	8	550	9.5	40	60	12.5	21.6	10	16	6	1500	20.0
	9	600	11	40	60	11.2	20.3	10	16	6	1575	19.4
	10	700	11	40	60	13.0	23.7	10	16	6	1838	22.2
	11	750	11	40	75	13.9	25.4	10	25	6	1969	23.7
	13	900	13.5	50	75	16.2	29.4	16	25	6	2363	27.6
	15	1000	15	50	100	18.0	32.7	16	35	6	2625	30.2
	17	1150	15	60	100	20.9	38.0	16	35	6	3019	34.7
	20	1350	18.5	60	100	20.9	38.0	16	35	6	3544	36.6
24	1600	22	75	150	28.0	49.0	25	50	6	4800	42.6	

Planning Information (Passenger Lift)

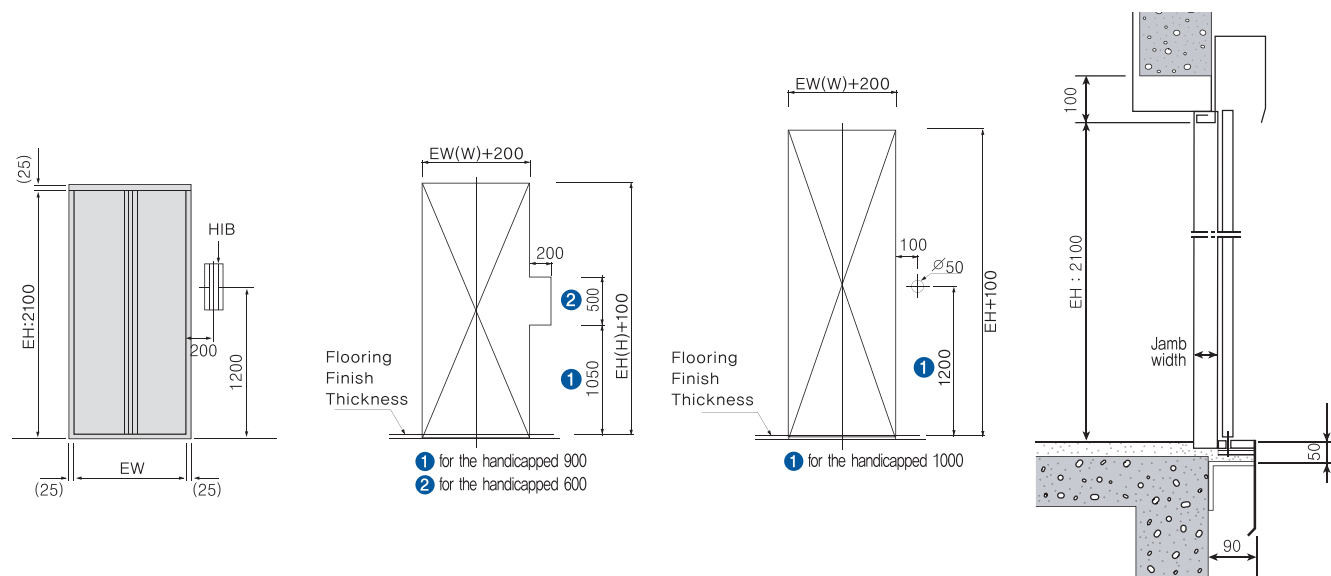
(Hospital Lift) Planning Information

WIDE JAMB(J300 TYPE)

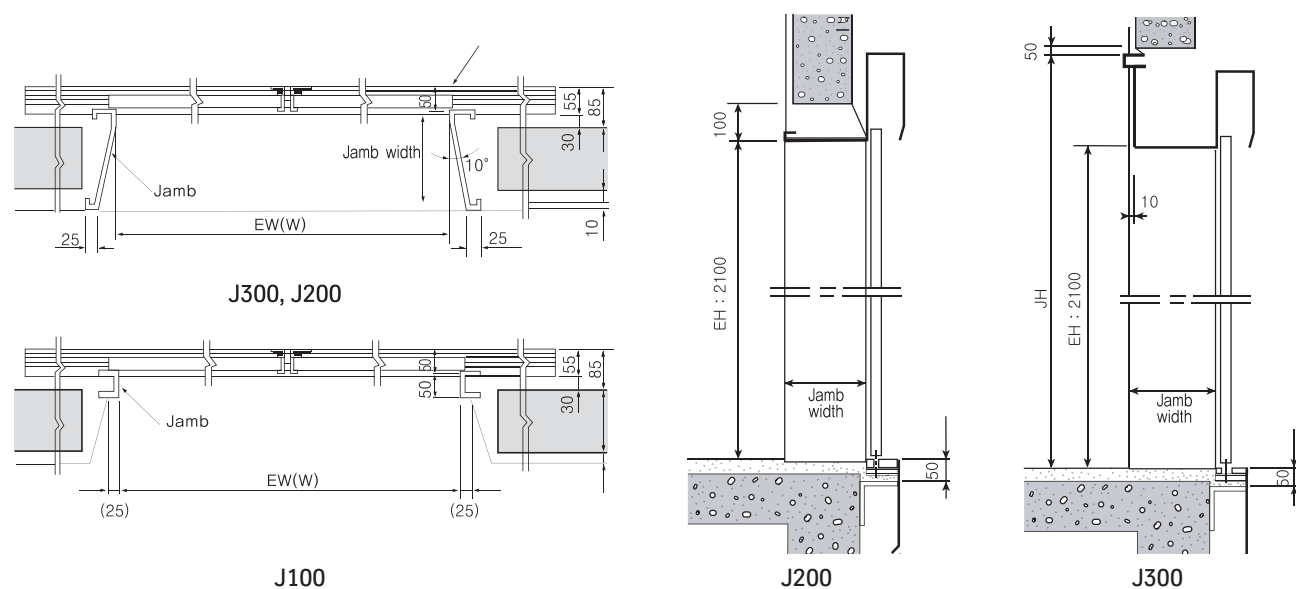
WIDE JAMB(J200 TYPE)



NARROW JAMB(J100 TYPE)



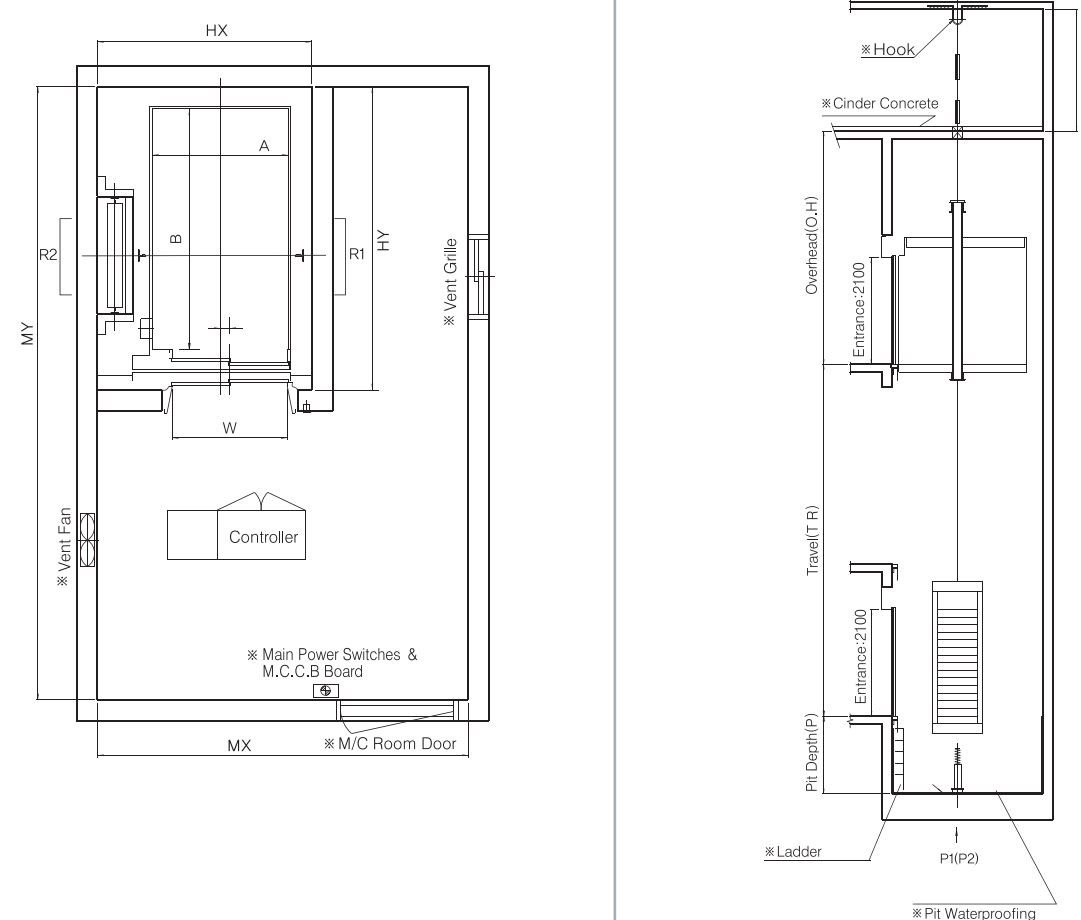
JAMB Detail



● W:Entrance Width / JH:Jamb Height / MH:Transom Height / EH:Entrance Height

Plan of Hoistway & Machine Room

Section of Hoistway



● Standard Dimensions

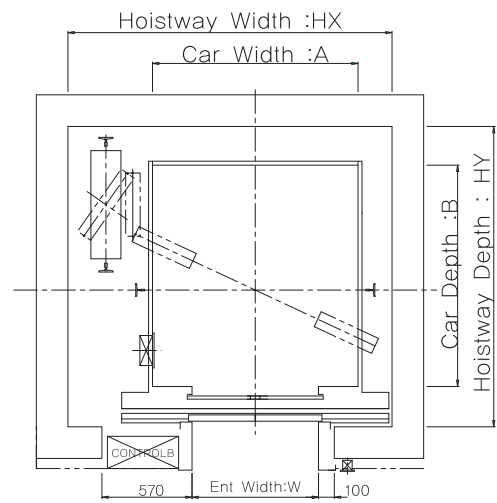
Type	Load (kg)	Rated Speed (m/min)	Clear Opening	Car Size					Hoistway Inside Dimension				Machine Room Inside Dimension				Height of Machine Room (HM)	Over head (OH)	Pit Depth (PIT)	Machine Room Reactor Power (kg)		Reaction force on the PIT (kg)		
				Inside	Inside	Outside	Outside	HX	HY	HX2	HY	MX	MY	MX2	MY	R1				R2	P1	P2		
				W	A	B	AS																BS	
20	1350	45																						
		60	1100	1300	2300	1390	2521	2150	2800	4450	2800	2450	4550	4750	4550	2450	4400	1200	7900	6100	8850	6700		
		90																						
		105																						
24	1600	45																						
		60	1100	1500	2300	1590	2521	2350	2800	4850	2800	2650	4550	5150	4550	2450	4600	1500	10200	7000	10950	8700		
		90																						
		105																						

● Power capacity

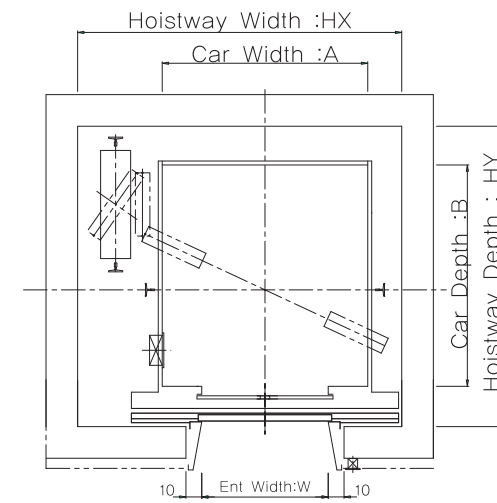
Type	Load (kg)	Rated Speed (m/min)	Motor Output (kw)	MCCB(A)		Power Supply(KVA)		Service Wire Size(mm ²)		Earth Size(mm ²)	M/C Room Heat Calorie (kcal/hr)	Starting Power (KVA/set)
				1 CAR	2 CAR	1 CAR	2 CAR	1 CAR	2 CAR			
				380V	380V	380V	380V	380V	380V			
20	1350	45	15	60	100	20.9	38.0	16	35	6	3019	34.7
		60	15	60	100	20.9	38.0	16	35	6	3019	34.7
		90	18.5	60	125	24.0	43.8	16	50	6	4200	39.8
		105	18.5	60	125	24.0	43.8	16	50	6	4200	39.8
24	1600	45	15	60	100	20.9	38.0	16	35	6	3019	34.7
		60	18.5	60	125	24.0	43.8	16	50	6	4200	39.8
		90	18.5	60	125	24.0	43.8	16	50	6	4200	39.8
		105	22	75	150	28.0	49.0	25	50	6	4800	42.6

Planning Information (MRL Lift)

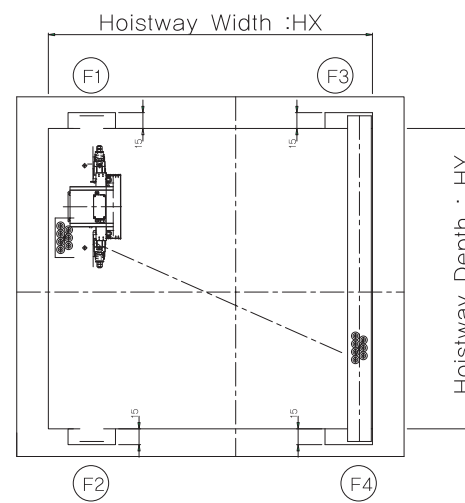
Plan of Hoistway (Control Floor)



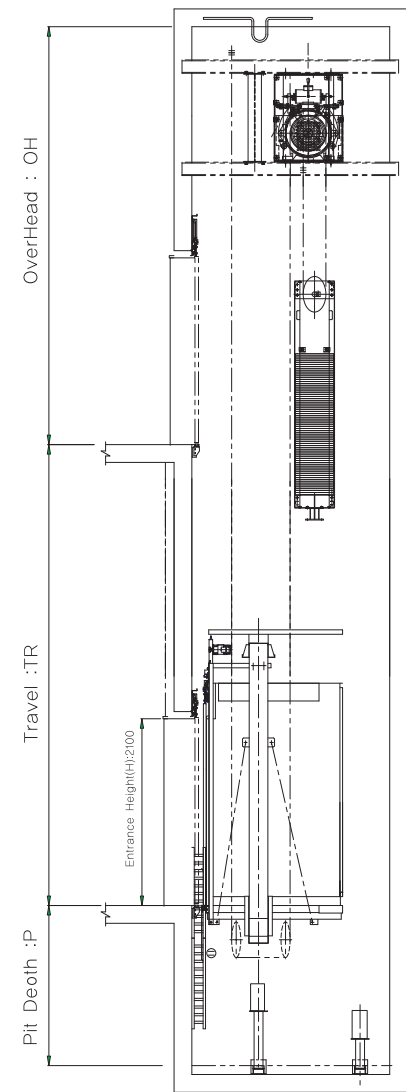
Plan of Hoistway (Typical Floor)



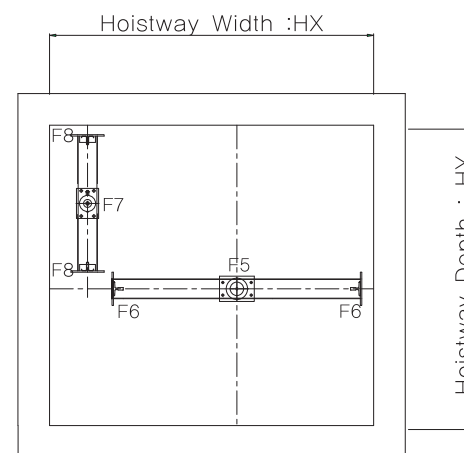
Plan of Hoistway Overhead



Section of Hoistway



Plan of Hoistway Pit



Standard Dimensions

Load (kg)	Type (Passengers)	Rated Speed (m/min)	Clear Opening	Car Demension	Hoistway Inside Dimension	Motor Output (kg)	Nef Output (A)
			W X H	A X B	MX X MY		
*550	*8	45	800 X 2100	1100 X 1300	1950 X 1850	2.8	20
		60				3.7	
		90				5.6	
		105				6.5	
*600	*9	45	800 X 2100	1100 X 1400	1950 X 1900	2.8	20
		60				3.7	
		90				5.6	
		105				6.5	
680	10	45	800 X 2100	1300 X 1300	2050 X 1850	3.5	15
		60				4.6	20
		90				6.9	30
		105				8.1	30
750	11	45	800 X 2100	1300 X 1400	2050 X 1900	3.5	15
		60				4.6	20
		90				6.9	30
		105				8.1	30
900	13	45	900 X 2100	1500 X 1400	2250 X 1900	4.6	20
		60				6.2	20
		90				9.2	30
		105				11	30
1000	15	45	900 X 2100	1600 X 1400	2350 X 1900	4.6	20
		60				6.2	20
		90				9.2	30
		105				11	40
1150	17	45	1000 X 2100	1600 X 1600	2350 X 2000	5.3	20
		60				7.1	20
		90				10.6	30
		105				12.5	40

*P8(550KG), *P9(600KG):NON STANDARD
 *HOISTWAY DIMENSION SHOWN IS AFTER PIT WATERPROOF WORK.
 *MOTOR CAPACITY IS SUBJECT TO CHANGE UPON LIFT SPECIFICATION.

Overhead & Pit (MINIMUM SIZE)

Load (kg)	Type (Passengers)	Rated Speed (m/min)	Overhead	Pit
*550 ~ *600	*8 ~ *9	45	4000	1500
		60		
		90		
		105		
680 ~ 1150	10 ~ 17	45	4000	1500
		60		
		90		
		105		

*OVERHEAD : CAR INSIDE HEIGHT = 2300MM.

Reaction force on the beam & Reaction force on the Pit

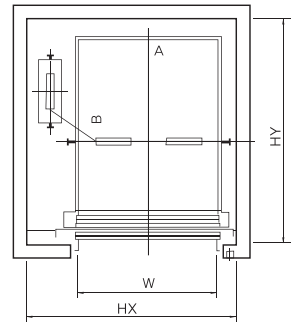
Load (kg)	Type (Passengers)	Rated Speed (m/min)	Reaction force on the beam (N)					Reaction force on the Pit (N)			
			F1	F2	F3	F4	F5	F6	F7	F8	
*550	*8	45 ~ 105	13480	7845	2295	13390	58470	19330	47245	16521	
*600	*9	45 ~ 105	14630	8115	3600	13900	61215	20015	48930	16955	
680	10	45 ~ 105	14665	8850	4475	13715	63965	2080	50700	17385	
750	11	45 ~ 105	16385	8390	4810	14560	68670	21880	53370	18055	
900	13	45 ~ 105	18005	9245	5340	16190	77305	26980	58940	19445	
1000	15	45 ~ 105	20260	9695	6555	17130	82405	28255	62000	20210	
1150	17	45 ~ 105	21915	10510	1715	18690	91037	33355	67575	21605	

*P8(550KG), *P9(600KG):NON STANDARD

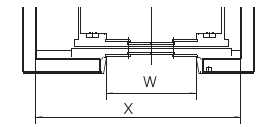
Planning Information (Freight Lift)-Traction Type(2:4)

(Freight Lift)-Indirect Hydraulic Plunger Type(2:4) Planning Information

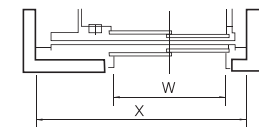
Plan of Hoistway



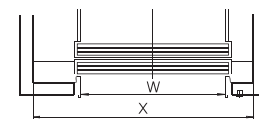
● 2 Panels Up opening(2U)



● 4 Panels Center opening(4C)

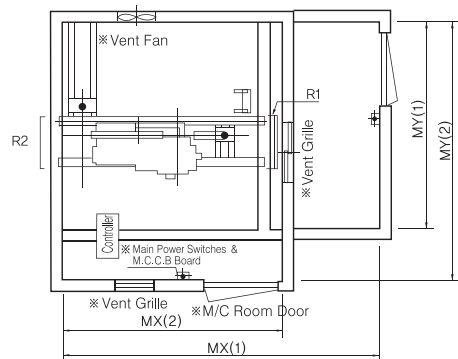


● 2 Panels Side opening(2S)



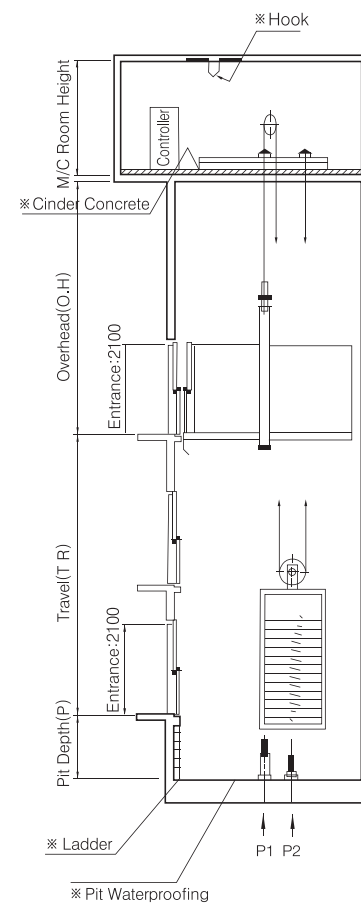
● 3 Panels Up opening(3U)

Plan of Machine Room

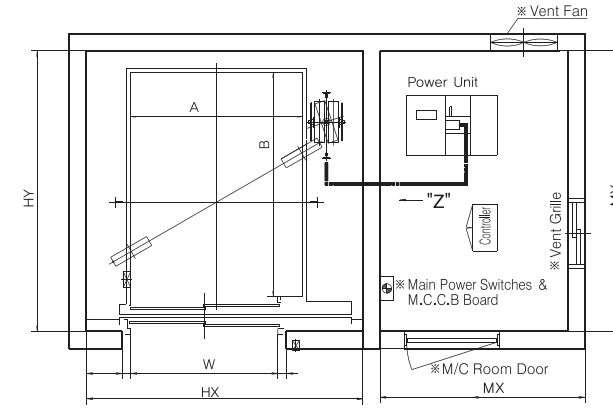


● Done by others

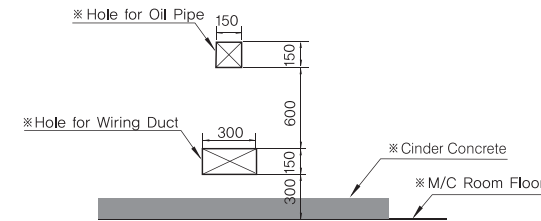
Section of Hoistway



Plan of Hoistway

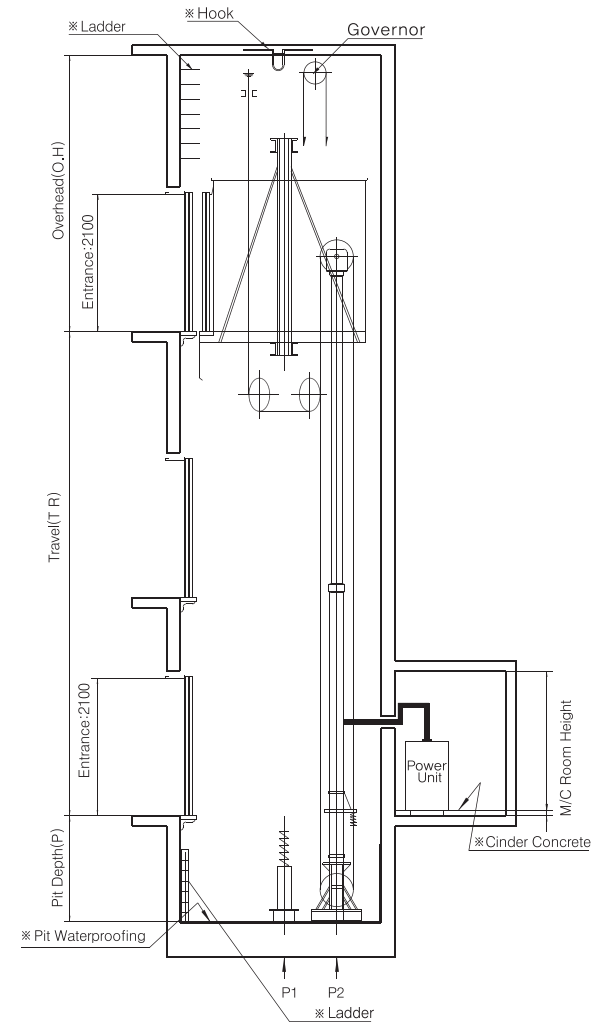


● 2 Panels Side opening(2S)



Detail "Z"

Section of Hoistway



● Dimensions of Hoistway and M/C Room Section

(Unit:mm)

Speed (m/min)	Capacity (kg)	Overhead (O.H)	Pit Depth (P)	M/C Room Height (M.R)
15, 30, 45	Under 2500kg	4600	1250	2500
	Over 3000kg	5050	1550	
60	Under 2500kg	5000	1500	2500

● Standard Dimensions

(Unit:mm)

Load (kg)	Rated Speed (m/min)	Door Type	Clear Opening		Car Inside A X B	Hoistway Inside Dimension HX X HY	Machine Room Inside Dimension MX(1) X MY(2)	Machine Room Reaction (kg)		Impact Load on the Pit (kg)		M/C Room Height
			W	EH				R1	R2	P1	P2	
750	20, 30, 45	2S	1100	2100	1500 X 2000	2450 X 2600	2850 X 2600	5100	4900	11800	11500	2500
1000	20, 30, 45	2S	1100	2100	1500 X 2400	2450 X 3000	2850 X 3000	6900	5200	13700	12300	2500
		2U	1500									
1500	20, 30, 45	2S	1700	2100	2200 X 2400	3250 X 3000	3650 X 3000	11500	5500	21400	17300	2500
		2U	2200									
		4C	1600									
2000	20, 30, 45	2S	1700	2100	2200 X 3000	3250 X 3600	3650 X 3600	14600	7000	25900	20800	2500
		4C	1600									
		2U	2200									
2500	20, 30	4C	1800	2100	2500 X 3000	3750 X 3600	4150 X 3600	16500	7500	30400	22700	2500
		2U	2500									
3000	20, 30	4C	2000	2100	2800 X 3400	4050 X 4000	4450 X 4000	18800	9400	35300	27900	2500
		2U	2800									
4000	20	2U	3000	2100	3000 X 4500	4450 X 5100	4850 X 5100	23600	11900	45300	35900	2800
5000	20	2U	3200	2100	3200 X 5000	4650 X 5600	5050 X 5600	29800	14400	57300	49900	2800

- Notes : 1. It is required to install the ventilation fan and grille in machine room considering of heat generation and maintenance conveniences.
 2. As the hoistway inside dimensions shown on the table are the minimum size, some allowance are required considering the slope of the hoistway.
 3. It is also required any prior confirmation in the event of using the forklift. (Any technical information of forklift in use at your company is required)
 4. The calculating formula(mm) of the Minimum Floor Height.
 ● 2U $H \times 1.5 + 750$ Minimum Floor Height
 ● 3U $H \times 4/3 + 850$ Minimum Floor Height (H : The height of the entrance door)
 5. The internal car size of two-way entrance car types should be confirmed as it is quite different from the standard dimension of the hoistway.

M/C Room Heat Calorie

$Q = S \times W / F$
 Q : Heat Calorie (kcal/h)
 S : E/L Speed (kW)
 W : E/L Load (kg)
 F : Factor (40)

● Standard Dimensions

(Unit:mm)

Load (kg)	Rated Speed (m/min)	Door Type	Clear Opening		Car Inside A X B	Hoistway Inside Dimension HX X HY	Overhead O.H	Pit Depth P	Impact Load on the Pit (kg)		M/C Room Dimension
			W	EH					P1	P2	
750	20, 30, 45	2S	1100	2100	1500 X 2000	2350 X 2600	4600	1250	12500	6500	Standard Dimensions. MX2500 MY2500 MH2100
1000	20, 30, 45	2S	1100	2100	1500 X 2400	2350 X 3000	4600	1250	14500	6900	
		2U	1500								
1500	20, 30, 45	2S	1700	2100	2200 X 2400	3050 X 3000	4600	1250	24500	8000	
		4C	1600								
		2U	2200								
2000	20, 30, 45	2S	1700	2100	2200 X 3000	3250 X 3600	4600	1250	25400	8900	
		4C	1600								
		2U	2200								
2500	20, 30	4C	1800	2100	2500 X 3000	3550 X 3600	4600	1550	28800	9700	
		2U	2500								
3000	20, 30	4C	2000	2100	2800 X 3400	3850 X 4000	5000	1550	32600	15300	
		2U	2800								
4000	20	2U	3000	2100	3000 X 4500	4100 X 5100	5000	1550	36200	28700	
5000	20	2U	3200	2100	3200 X 5000	4300 X 5600	5000	1550	45800	39900	

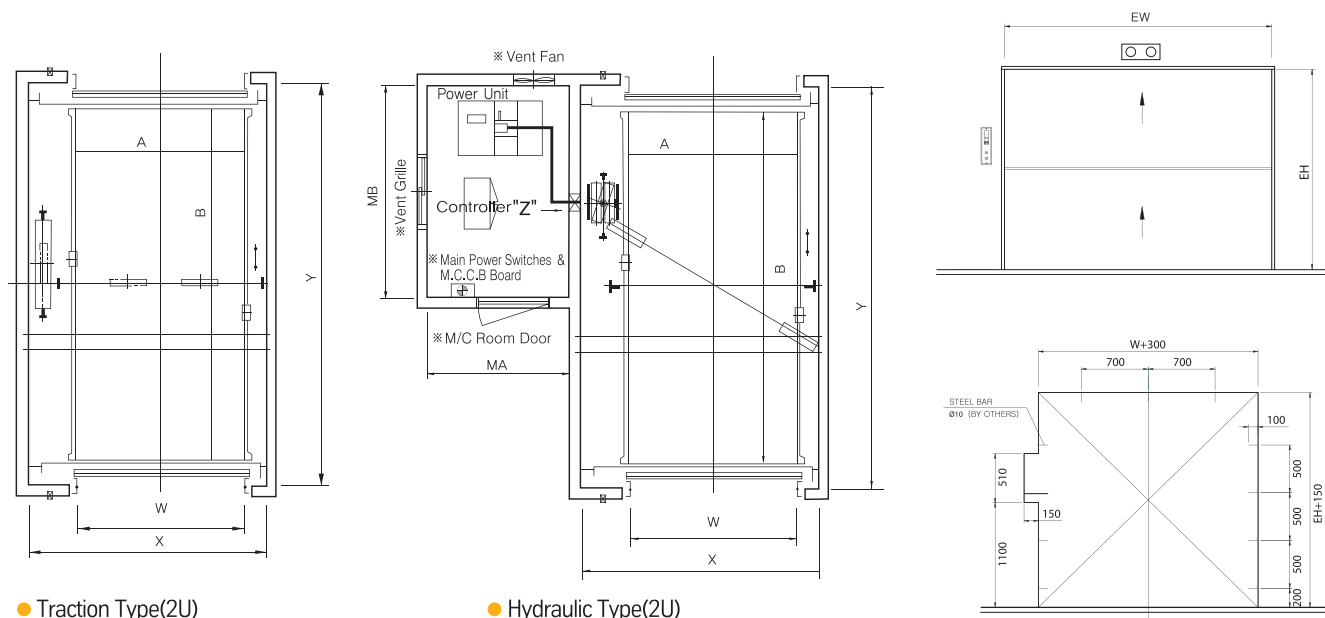
M/C Room Heat Calorie

$Q = (585 \times P \times Tr) / (44 + Tr \times 2)$
 Q : Heat Calorie (kcal/h)
 P : Motor Capacity (kW)
 Tr : Traveling Time (m/sec)
 F : Traveling Distance (m)

Planning Information (Car Lift)

(Observation Lift) Planning Information

Plan of Hoistway



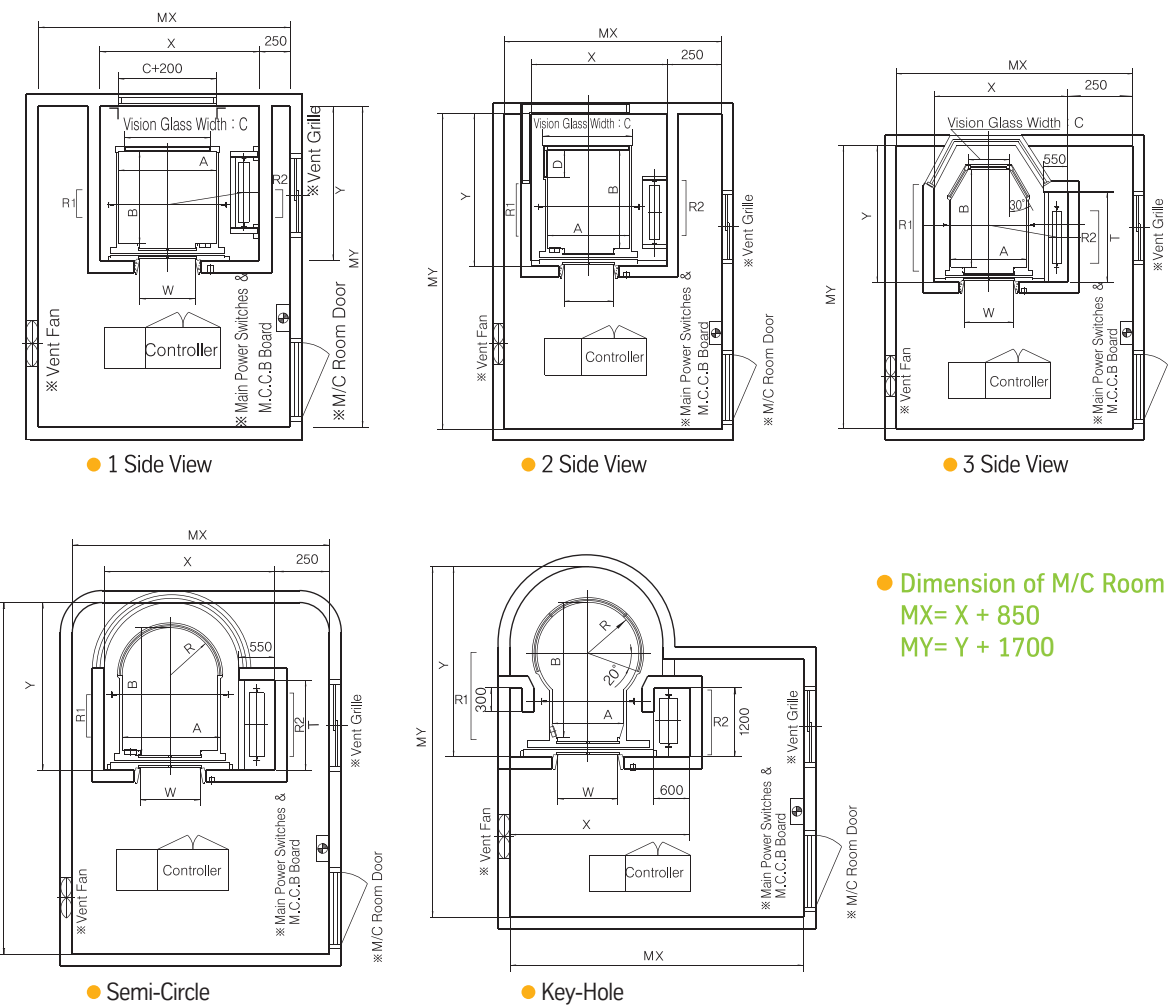
● Traction Type(2U)

● Hydraulic Type(2U)

● Standard Dimensions

	2000kg						2500kg						3000kg					
	Traction Type			Hydraulic Type			Traction Type			Hydraulic Type			Traction Type		Hydraulic Type			
Load (Kg)	2000												3000					
Rated Speed (m/min)	30	45	60	20	30	30	45	60	20	30	30	45	20	30				
Motor Capacity(kw)	11	13.5	18.5	24	37	15	18.5	22	29	37	18.5	22	37	48				
Overhead(mm)	4200			4400			3800			4200			3800					
Pit Depth(mm)	1500																	
Power Supply	MCCB Capacity (A)	1Car	100/75	100/75	125/75	225/125	300/175	100/75	100/75	150/100	225/125	300/175	125/75	125/75	300/175	400/225		
		2Car	100/75	100/75	175/100	450/250	600/350	100/75	125/100	175/100	450/250	600/350	175/100	175/100	600/350	750/450		
	Transformer Capacity(kVA)	1Car	11	11	16	75	75	12	14	20	75	75	15	16	75	90		
		2Car	19	19	27	110	140	21	23	34	110	140	26	27	140	180		
220V / 380V	Servic wire SIZE(mm ²)	1Car	22/8	22/8	38/14	80/38	125/50	22/8	22/8	50/22	80/38	125/50	38/14	38/14	125/50	125/75		
		2Car	60/14	60/14	100/22	250/100	325/150	60/14	60/22	100/38	250/100	325/150	60/22	60/22	325/150	*200		
Earth SIZE(mm ²)1Car/2Car		14/14			22/38			14/14			22/38		14/14		22/38			
Car Inside (AN X BN)	Standard	2350 X 5400						2500 X 6200						2500 X 6200				
Hoistway Inside Dimension (AH X BH)	Standard	1Car	3650 X 5800			3450 X 5800			3800 X 6600			3600 X 6600			3800 X 6600		3600 X 6600	
		2Car	7550 X 5800			7150 X 5800			7850 X 6600			7450 X 6600			7850 X 6600		7450 X 6600	
	Through Type	1Car	3650 X 5850			3450 X 5850			3800 X 6650			3600 X 6650			3800 X 6650		3600 X 6650	
		2Car	7550 X 5850			7150 X 5850			7850 X 6650			7450 X 6650			7850 X 6650		7450 X 6650	
Machine Room Inside Dimension (AM X BM)	Standard	1Car	4050 X 5800			2500 X 2500			4200 X 6600			2500 X 2500			4200 X 6600		2500 X 2500	
		2Car	7950 X 5800			2500 X 5000			8250 X 6600			2500 X 5000			8250 X 6600		2500 X 5000	
	Through Type	1Car	4050 X 5850			2500 X 2500			4200 X 6650			2500 X 2500			4200 X 6650		2500 X 2500	
		2Car	7950 X 5850			2500 X 5000			8250 X 6650			2500 X 5000			8250 X 6650		2500 X 2500	
Door	Car Door(Optional)	N/A			N/A			N/A			N/A			N/A		N/A		
Entrance Size	Hall Door	2U																
	Width(EW)	2350						2500						2500				
	Height(EH)	1800						1800						1800				
Reaction force (kg)	Machine Room	Standard	R1	14300	15300	9000	18400	20000	10300	24500	13100							
			R2	7700	7800	600	9000	9800	500	12200	700							
		Through Type	R1	17800	19100	9000	23000	25000	10300	30600	13100							
			R2	9600	9700	600	11200	12200	500	15200	700							
	PIT	Standard	P1	23000	31000	31700	32500	42500	36000	46100	51000							
			P2	18000	26000	11100	26000	3700	12100	36700	19100							
		Through Type	P1	28700	38700	31700	40600	53100	36000	57600	51000							
			P2	22500	32500	11100	32500	46000	12100	45900	19100							

Plan of Hoistway



● 1 Side View

● 2 Side View

● 3 Side View

● Dimension of M/C Room
 MX= X + 850
 MY= Y + 1700

● Semi-Circle

● Key-Hole

● Dimensions of Hoistway

Rated Speed (m/min)	Overhead Height (O.H)	Pit Depth (P)
45	4400	1250
60	4600	1550
90	4800	1850
105	5000	2150

● Standard Dimensions

Speed (m/min)	Type	Capacity (kg)	Clear Opening	Car Internal Dimension	Vision Glass Width					Shaft Internal Dimension												
					1Side		2Side		3Side	Circle		Key-H		1, 2Side		3Side		Circle		Key-H		
					W	H	C	D	C	R	R	X	Y	X	Y	T	X	Y	X	Y	X	Y
45	OB6-CO	450	800 X 2100	1400 X 850	1100	1100 X 100	2250	1500	1700	1750	1900	2000	2400	2050	1500	2400	2150	2350	2500	2800	2750	
	OB8(7)-CO	550		1400 X 1030																		
	OB9(8)-CO	600		1400 X 1100																		
60	OB10(9)-CO	680	900 X 2100	1400 X 1250	1300	1100 X 300	800	700	2450	2000	2400	2050	1500	2400	2150	2350	2500	2800	2750	2900	2800	
	OB11(10)-CO	750		1600 X 1350																		
	OB13(11)-CO	900		1600 X 1500																		
90	OB15(13)-CO	1000	1000 X 2100	1800 X 1500	1500	1500 X 500	900	700	2550	2150	2600	2350	1500	2400	2500	2800	2750	2900	2800	2900	3000	2900
	OB17(15)-CO	1150		1800 X 1700																		
	OB20(18)-CO	1350		2000 X 1750																		
	OB24(21)-CO	1600		1700 X 600																		

Notes : 1. As the hoistway inside dimensions shown on the table are the minimum size, some allowance are required considering the slope of the hoistway.
 2. () Indicate shall be based on EN81
 3. PIT Impact load ≤60m/min / ≥90m/min

Planning Information

WORK BY OTHERS

The works below are not included in the elevator installation work and should be carried out by building contractors in accordance with our drawings and related international or local codes and regulations.

Hoistways

- Provision of steel bars to fix jamb around the hoistway entrance of each floor.
- Waterproof work inside pit,(including drainage, if necessary) and finishing work after the buffers installed.
- Provision of entrance or ladder(gangway) for pit access(where necessary for deep pit).
- Supply and installation of fall - prevention plate at the hoistway entrances.
- Installation of emergency exits and electric wiring in blind sections of hoistway(where required).
- A properly framed and enclosed legal hoistway, including venting as required by the governing code or authority, ready for uninterrupted use by the Elevator Contractor at an agreed upon date.
- Adequate guide rail bracket supports and spacing as required by governing code, from pit floor to underside of an overhead slab, separator beams where required.
- Dry pit of proper depth shall be provided and reinforced to sustain normal and impact vertical forces from rails and impact loads from buffer.
- Plumb-line tolerance over the whole hoistway height must not exceed 30mm.
- Hoistway walls are to be designed and constructed according to the required fire rating including where penetrated by elevator fixture boxes and to include adequate fastening to hoistway entrance assemblies. One front entrance wall, at the main landing, is not to be constructed until after all elevator materials are located in the hoistway. Remaining front entrance walls shall not be constructed until after door frames and sills are in place. If front walls are poured concrete bearing wall, rough openings are to be provided to accept entrance frames and filled in after frames are set. Rough openings shall be sized to suit the Elevator Contractor.
- All cutting, including cutouts to accommodate hall signal fixtures, patching, painting of walls, floors, or partitions, together with finish painting of entrance doors and frames, if required.
- Suitable light fixture and convenience outlet in the pit with a light switch adjacent to the access door or ladder. The receptacles shall have ground fault circuit interrupter protection.
- The surface of the pit floor beneath the rails and buffers stand to be flat and level within 1/8 (3.2mm) of the full width of the pit.
- Where access to the pit is by means of the lowest hoistway entrance, a vertical iron ladder extending 42 (1067mm) minimum above the sill of the access door.

Machine Rooms

- Provision of phone wiring from phone service and / or remote locations to elevator controllers.
- Lifting beam must be installed on the ceiling for hoisting and transfer of heavy equipment.
- Noise insulation should be installed between the machine room and adjacent residential areas.
- Patching and plastering of all cutouts made necessary by elevator work.
- A suitable machine room with legal access, ventilation and concrete floor. The temperature in the machine room should be maintained between 5°C and 40°C . Relative humidity should not exceed 90%(monthly) and 95%(daily) non - condensing. Ventilation shall suit the Elevator Contractor's heat release requirements.
- Machine room entrance size shall be 900mm(W) 2000mm(H) and cannot be used as passageway leading to any other place. Forced locking system(automatic - closing) shall be furnished.
- Main line power supply shall not exceed 5% variance.
- A three (3) phase, four(4) wire electrical feeder system with an equipment grounding conductor terminating in the machine room. Size of the feeders and grounding conductor to suit elevator power characteristics.
- Installation of lead - in wire and earth wire between building main power board and machine room incoming distribution board. However, machine room lighting source supply shall be separately installed.
- Should operation of the elevators be required on emergency standby power, other are to provide an emergency power unit and means for starting it, and deliver to the elevator main switch(MCCB) at the controller in the machine room, sufficient power to operate one or more elevators at a time at full rated speed.
- Provide necessary transfer switch(es) to switch from normal power supply to emergency power supply, in the event of normal power supply failure. Provide normally closed contact(s) and wiring from transfer switch(es) to one(1) elevator controller within each group.
- Suitable light fixture and convenience outlets in machine room with light switches. The receptacles shall have ground fault circuit interrupter protection.
- Provision of fire extinguishers(per governing codes).

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Miscellaneous

- For the fire emergency operation, the smoke detectors located where required are to be wiring connected to the elevator controllers.
- Wiring and piping works between monitoring systems (if monitoring systems are used), elevator machine room, alarm panels and inter - communication systems, etc, outside of hoistway.
- The elevator machine rooms and hoistways shall be free of dust or harmful gas.
- A secured area for storage of elevator equipment and materials during elevator installation shall be provided.
- Hoistway and machine room shall contain no piping or wiring not related directly to elevator operation.
- All electric power for light, tools, hoists, welding, etc, during erection.
- All single phase receptacles installed in machine rooms, pits and machinery spaces shall have ground fault circuit interrupter protection.
- Guarding and protecting the hoistway during construction; the protection of the hoistway shall include removable solid panels surrounding each hoistway opening at each floor, a minimum of 120cm high.
Hoistway guards to be erected, maintained and removed by others.
- TEMPORARY USE OF ELEVATORS : Should any elevator be required for use before final completion, others shall provide without expense to the Elevator Contractor, if required, temporary car enclosures, requisite guards or other protection for elevator hoistway openings, main line switch with wiring, necessary power, signaling devices, lights in car and elevator operators together with any other special labor or equipment needed to permit this temporary usage.
- The Elevator Contractor shall be reimbursed for any labor and material which is not part of the permanent elevator installation and which is required to provide temporary elevator service. In addition, the Elevator Contractors temporary acceptance(permission) form shall be executed before any elevator is placed in temporary service, and the cost power and operation, maintenance of the equipment and rehabilitation of equipment shall be paid for by others.

