

본사 및 공장 Head Office / Factory

경기도 평택시 오성면 오성산단로 36-19
Tel : 031-682-8931 / Fax : 031-682-8901

36-19, Oseongsandan-ro, Yanggyo-ri, Oseong-myeon, Pyeongtaek-si, Gyeonggi-do, Korea
Tel : +82-31-682-8931 / Fax : +82-31-682-8901

시흥공장 Siheung Factory

경기도 시흥시 염티브이 28로 20번길 7
Tel : 031-488-8931 / Fax : 031-319-1258

7, Emtibeui28-ro, 20beon-gil, Siheung-si, Gyeonggi-do, Korea
Tel : +82-31-488-8931 / Fax : +82-31-319-1258

서울지사 Seoul Office

서울특별시 서초구 강남대로 305 현대백사온빌딩 1720호
Tel : 02-525-5464 / Fax : 02-525-5463

#1720, 305, Gangnam-daero, Seocho-gu, Seoul, Korea
Tel : +82-2-525-5464 / Fax : +82-2-525-5463

경기북부지사 Gyeonggi North Office

경기도 의정부시 산단로 76번길 113-4
Tel : 031-844-8900 / Fax : 031-844-8904

113-4, Sandan-ro 76beon-gil, Uijeongbu-si, Gyeonggi-do, Korea
Tel : +82-31-844-8900 / Fax : +82-31-844-8904

경기서부지사 Gyeonggi West Office

경기도 김포시 고촌읍 아라욱로 58번길 147
Tel : 031-983-8931 / Fax : 031-683-8931

147, Arayuk-ro 58beon-gil, Jeonho-ri, Gochon-eup, Gimpo-si, Gyeonggi-do, Korea
Tel : +82-31-983-8931 / Fax : +82-31-683-8931

충청지역본부 Chungcheong Office

충청남도 천안시 동남구 신촌로 24 기계공구상가 나동 3015호
Tel : 041-570-8932 / Fax : 041-570-8931

#3015, 24, Sinchon-ro, Dongnam-gu, Cheonan-si, Chungcheongnam-do, Korea
Tel : +82-41-570-8932 / Fax : +82-41-570-8931

영남지역본부 Yeongnam Office

경상북도 경산시 입향면 내리길 19길 53-4
Tel : 053-871-5982 / Fax : 053-817-6982

53-4, Naeri-gil 19-gil, Nae-ri, Amnyang-myeon, Gyeongsan-si, Gyeongsangbuk-do, Korea
Tel : +82-53-871-5982 / Fax : +82-53-817-6982

고객센터 (고장접수) 1899-3902

영업센터 (설치/보수/리모델링 문의) 031-682-8931

<http://www.greenel.co.kr>



Green Elevator Design Collection
Passenger Elevator

Green elevator technologies
with future oriented makes
comfortable and pleasant space.

좋은 하루
좋은 사람
좋은 만남
좋은 선택

written by 김민서



Distributed by

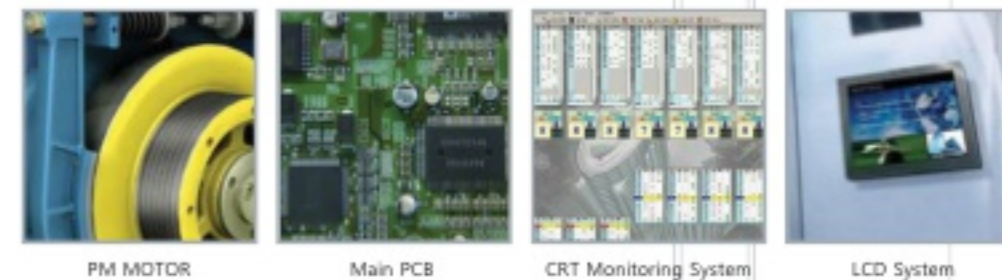
Green Technologies with Future Oriented makes Comfortable and Pleasant Space.

With more than 10 years experience of elevator manufacturing in Korea, we, Green 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 domestic 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.



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

World-Wide Sales and After-Service Network

At the moment, as we, Green 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.greenel.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, in order to make immediate response against technical question and troubles requested by clients, and maximize our client's satisfaction in the world.



Green Elevator Design Collection

Passenger Elevator

Green Technologies with Future Oriented
makes Comfortable and Pleasant Space.

Green Elevator Design Collection

GE-01



Front View



Rear View

Green Elevator Design Collection

GE-02



Rear View



Front View



Cage Design

Ceiling	GE Ceiling-01 (Painted Steel Black, Barrisol)
Wall	STS Inco Black Mirror, STS Inco Black Bead Blast
Door	STS Inco Black Bead Blast
COP	COP-01 / COP-02H
CPI	CPI-01
Handrail	HR-01 / STS Polishing 1Pipe Type
Floor	Decotile

- 본 이미지는 실물과 다소 차이가 날 수 있습니다.
- 천정 분할 및 사양은 연습에 따라 변경 될 수 있습니다.
- 도장 색상은 당사 표준 색상 견본으로 확인여 주십시오.
- 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.

Cage Design

Ceiling	GE Ceiling-02 (Painted Steel Gray, PSU Panel)
Wall	STS Mirror, STS Bead Blast
Door	STS Bead Blast
COP	COP-01 / COP-02H
CPI	CPI-03
Handrail	HR-01 / STS Polishing 1Pipe Type
Floor	Decotile

- 본 이미지는 실물과 다소 차이가 날 수 있습니다.
- 천정 분할 및 사양은 연습에 따라 변경 될 수 있습니다.
- 도장 색상은 당사 표준 색상 견본으로 확인여 주십시오.
- 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.



Green Elevator Design Collection

GE-03



Front View



Rear View



Cage Design

Ceiling	GE Ceiling-03 (Painted Steel Gold/Black, White Acryl, LED Downlight, Gold Polishing Molding)
Wall	STS Ti-Gold Mirror, STS Ti-Gold Bead Blast
Door	STS Ti-Gold Bead Blast
COP	COP-01 / COP-02H
CPI	CPI-02
Handrail	HR-01 / STS Polishing 1Pipe Type
Floor	Decotile

- 본 이미지는 실물과 다소 차이가 날 수 있습니다.
- 천정 분할 및 사양은 연수에 따라 변경 될 수 있습니다.
- 도장 색상은 당사 표준 색상 견본으로 확인여 주십시오.
- 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.

Green Elevator Design Collection

GE-04



Rear View

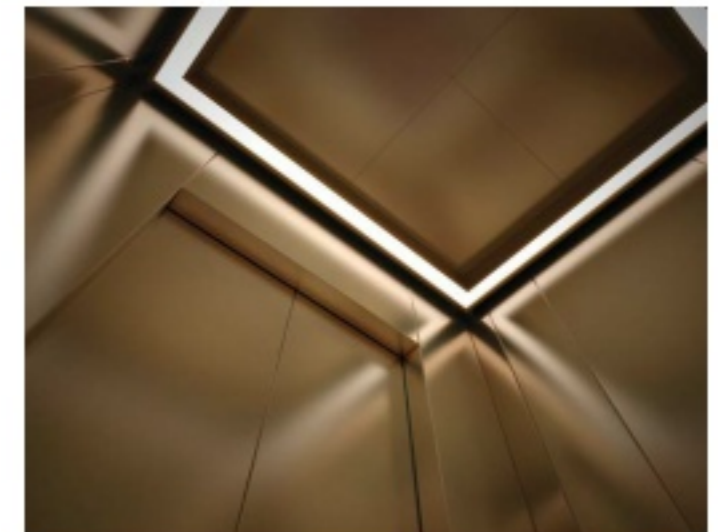


Front View

Cage Design

Ceiling	GE Ceiling-04 (Painted Steel Brown, PSU Panel)
Wall	STS Ti-Bronze Mirror, STS Ti-Bronze Bead Blast
Door	STS Ti-Bronze Bead Blast
COP	COP-01 / COP-02H
CPI	CPI-04
Handrail	HR-01 / STS Polishing 1Pipe Type
Floor	Decotile

- 본 이미지는 실물과 다소 차이가 날 수 있습니다.
- 천정 분할 및 사양은 연수에 따라 변경 될 수 있습니다.
- 도장 색상은 당사 표준 색상 견본으로 확인여 주십시오.
- 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.



Green Elevator Design Collection

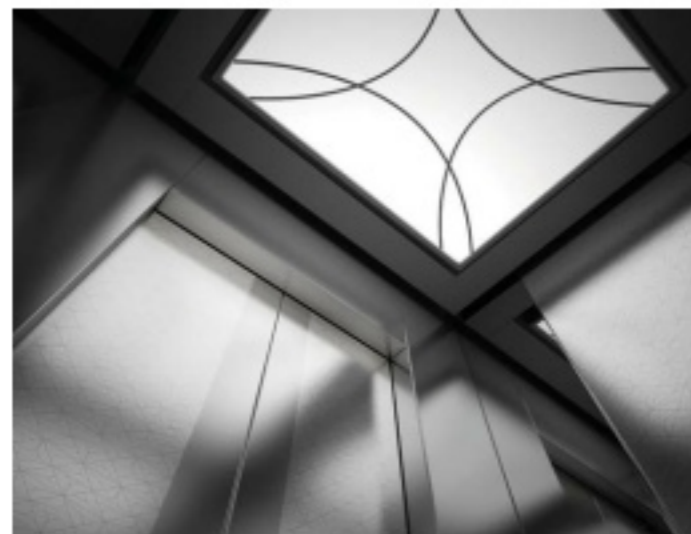
GE-05



Front View



Rear View



Cage Design

Ceiling	GE Ceiling-05 (Painted Steel Black, Printing PSU Panel)
Wall	STS Bead Blast, STS Inco Black Mirror, STS Bead Blast Etching
Door	STS Bead Blast Etching
COP	COP-01 / COP-02H
CPI	CPI-02
Handrail	HR-01 / STS Polishing 1Pipe Type
Floor	Decotile

- 본 이미지는 실물과 다소 차이가 날 수 있습니다.
- 천정 분할 및 사양은 인습에 따라 변경 될 수 있습니다.
- 도장 색상은 당사 표준 색상 견본으로 확인여 주십시오.
- 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.

Green Elevator Design Collection

GE-06



Rear View



Front View

Cage Design

Ceiling	GE Ceiling-06 (Painted Steel White, STS Bead Blast, LED Indirect Lighting, LED Downlight)
Wall	STS Bead Blast, STS Bead Blast Etching
Door	STS Bead Blast Etching
COP	COP-01 / COP-02H
CPI	CPI-03
Handrail	HR-01 / STS Polishing 1Pipe Type
Floor	Decotile

- 본 이미지는 실물과 다소 차이가 날 수 있습니다.
- 천정 분할 및 사양은 인습에 따라 변경 될 수 있습니다.
- 도장 색상은 당사 표준 색상 견본으로 확인여 주십시오.
- 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.



Green Elevator Design Collection

Observation



Front View



Rear View



Cage Design

Ceiling	GE Ceiling-07 (Painted Steel Gray, PSU Panel)
Wall	STS Mirror, Glass
Door	STS Mirror, Glass
COP	COP-01 / COP-03H
CPI	CPI-01
Handrail	HR-01 / STS Polishing 1Pipe Type
Floor	Decotile

- 본 이미지는 실물과 다소 차이가 날 수 있습니다.
- 천정 분할 및 사양은 인습에 따라 변경 될 수 있습니다.
- 도장 색상은 당사 표준 색상 견본으로 확인여 주십시오.
- 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.

Green Elevator Design Collection

Hospital



Rear View



Front View

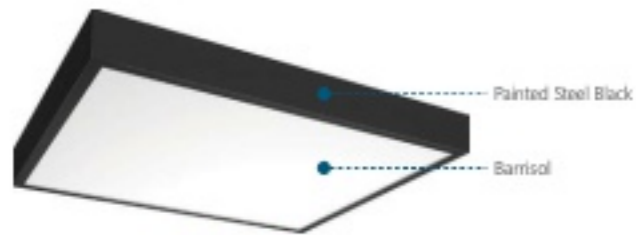
Cage Design

Ceiling	GE Ceiling-h-01 (Painted Steel Gray, PSU Panel, Polygal)
Wall	STS Hairline, STS Hairline Etching
Door	STS Hairline
COP	COP-01 / COP-02H
CPI	CPI-04
Handrail	HR-02 / STS Hairline Bar Type
Floor	Decotile

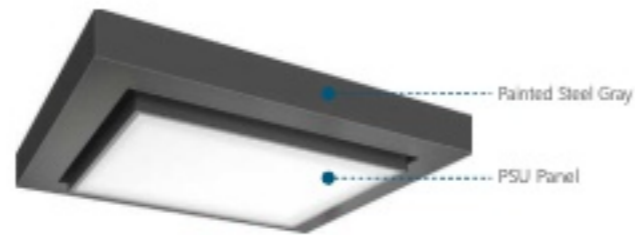
- 본 이미지는 실물과 다소 차이가 날 수 있습니다.
- 천정 분할 및 사양은 인습에 따라 변경 될 수 있습니다.
- 도장 색상은 당사 표준 색상 견본으로 확인여 주십시오.
- The printed color could be different from the actual object.
- Please select the color from the color chart supplied by us.
- Etching pattern is subject to change according to car capacity.



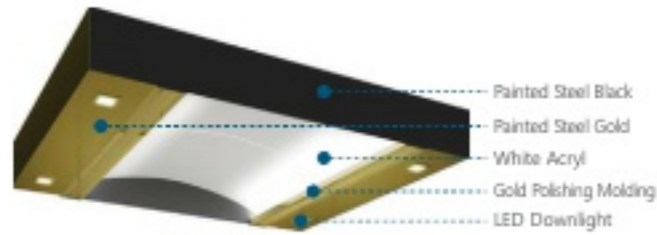
Car Ceiling Design



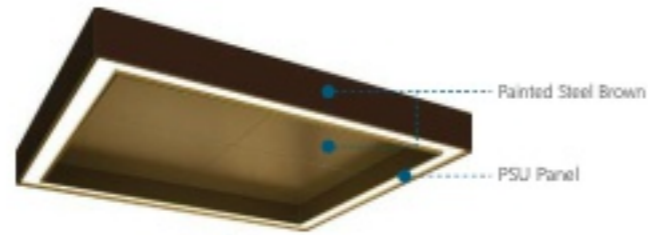
GE Ceiling-01



GE Ceiling-02



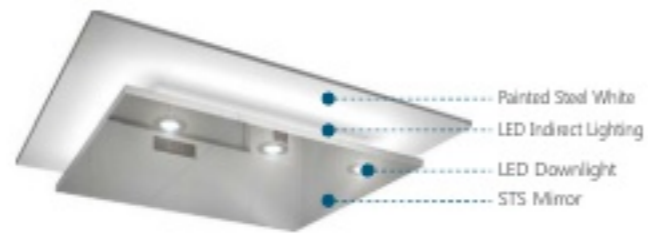
GE Ceiling-03



GE Ceiling-04



GE Ceiling-05

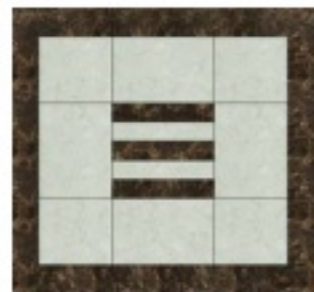


GE Ceiling-06

Floor Design



F-01



F-02

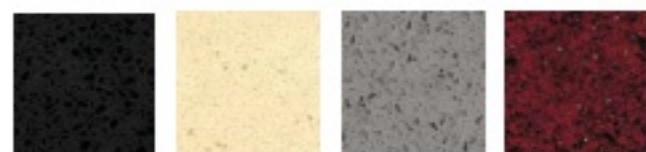


F-03

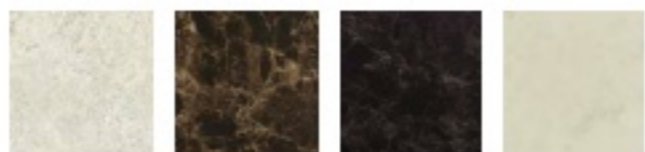


F-04

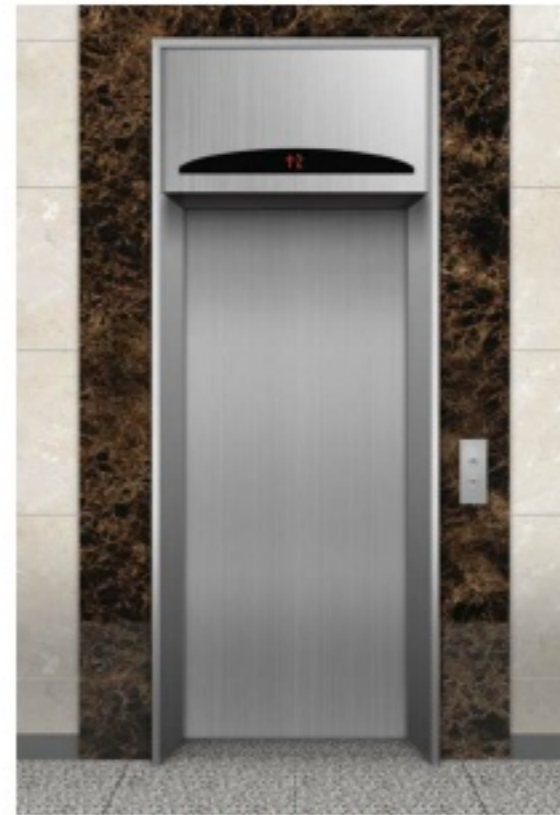
Engineered Stone



Decotile



Entrance Design



Wide Jamb+Trasom Type



Wide Jamb Type



Narrow Jamb Type



CP Jamb Type

Fixtures Design

Car Operating Panel



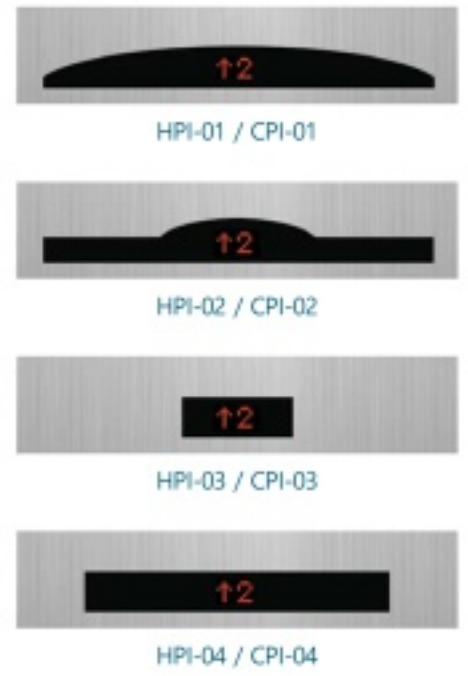
Button



Hall Button & Indicator



Hall / Car Position Indicator



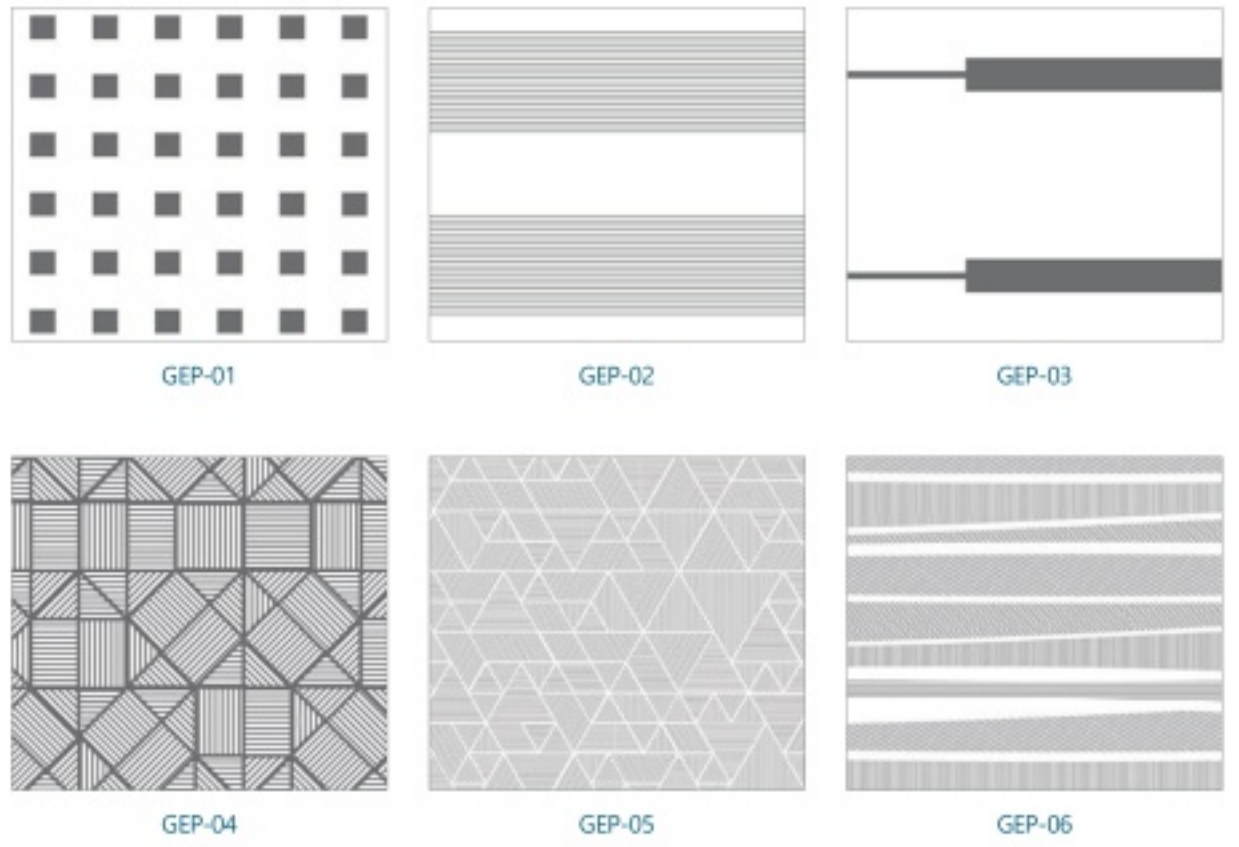
Handrail



Hall Lantern



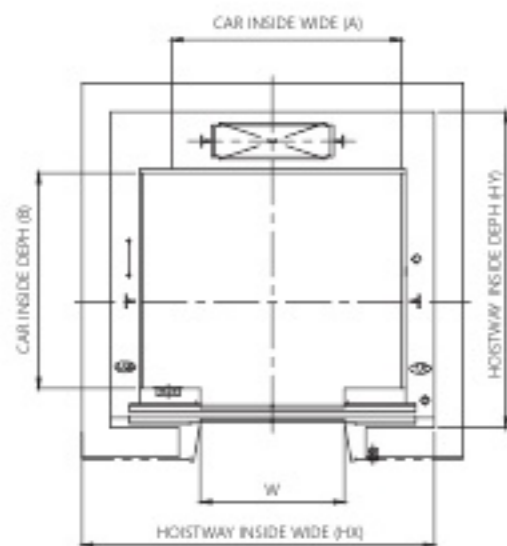
Etching Pattern



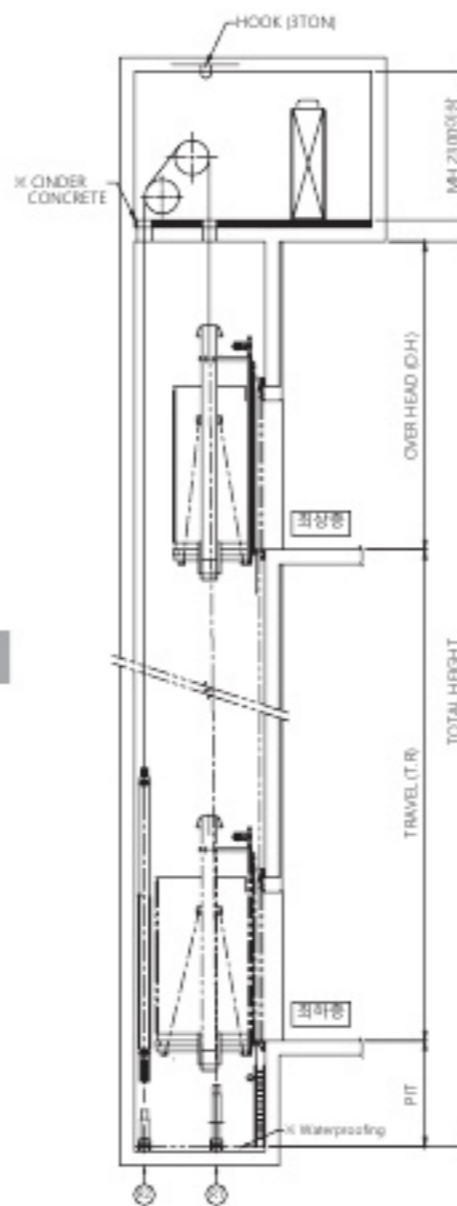
Planning Information

Passenger Elevator

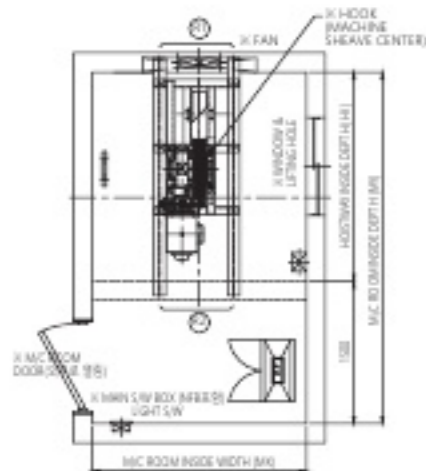
Plan of Hoistway



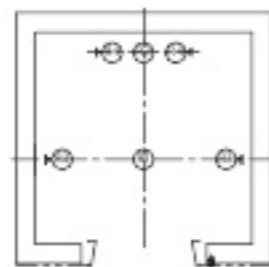
Section of Hoistway



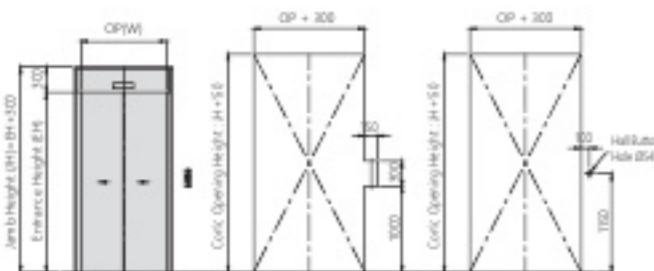
Plan of M/C Room



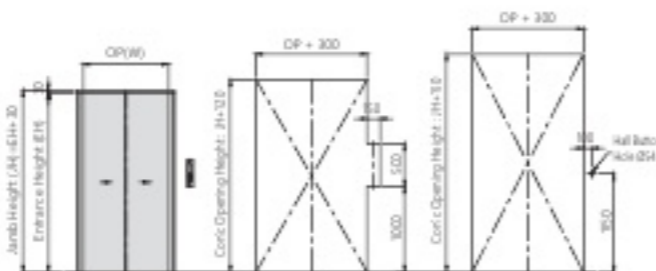
Plan of PIT



Main Entrance



Other Entrance



Standard Specification (Minimum size)

(Unit : mm)

Rated Speed (m/min)	Type	Load (kg)	Clear Opening (m)	Hoistway Inside Dimension (mm)						Machine Room Inside Dimension (mm)						M/C Room Reaction Force (N)		Reaction force on the PIT (N)				
				Car Inside (mm)		1 Car		2 Car		3 Car		1 Car		2 Car		3 Car		R1	R2	P1	P2	
60 - 105	6	450		850	HX	HY	HX2	HY	HX3	HY	MX	MY	MX2	MY	MX3	MY	2950	2950	3600	2000	3585	2930
	8	550		1030		1630		1630		1630		3130		3130		3130	3130	4050	2500	4367	3169	
	9	600	800	1400	1100	1800	1700	3750	1700	5700	1700	1800	3200	3750	3200	5700	3200	4100	2500	4533	3271	
	10	680		1250		1850		1850		1850		3350		3350		3350	3350	4200	2800	4884	3494	
	11	750		1350		1950		1950		1950		3450		3450		3450	3450	4550	2900	5065	3612	
	13	900	900	1600		2000		4150		6300		2000		4150		6300	3600	5100	3800	6479	4663	
	15	1000		1500		2100		2100		2100		3600		4150		6300	3600	5450	4300	6750	4810	
	17	1150	1000	1800	1800	2250	2200	4650	2200	7050	2200	2250	3700	4650	3700	7050	3700	8000	5200	8649	6276	
	20	1350		1800	1700	2350	2400	4850	2400	7350	2400	2350	3900	4850	3900	7350	3900	8900	6000	9300	6674	
	24	1600		2000	1500	2550	2200	5250	2200	7950	2200	2550	3700	5250	3700	7950	3700	10200	7000	10159	7224	
				2150	1600	2700	2300	5550	2300	8400	2300	2700	3800	5550	3800	8400	3800					
	30	2000	1200	2200	1900	2800	2600	5750	2600	8700	2600	2800	4100	5750	4100	8700	4100	13900	9350	19550	14350	

* Travel = 40m 이하 기준. 40m OH=5000 기준

Hoistway and Machine Room size (Minimum size)

(Unit : mm)

Rated Speed (V, m/min)	PIT Depth (PIT, mm)	Overhead Height (OH, mm)	Height of Machine Room (MH, mm)
45	1500	4400	2300
60	1500	4600	
90	1800	4800	
105	2100	5000	

* Car Height = 2300mm 기준, CH변경시, 변화량만큼 OH 증가. Ex) CH = 2500mm, V=60 M/min일때, OH = 4800 필요.

Power Capacity

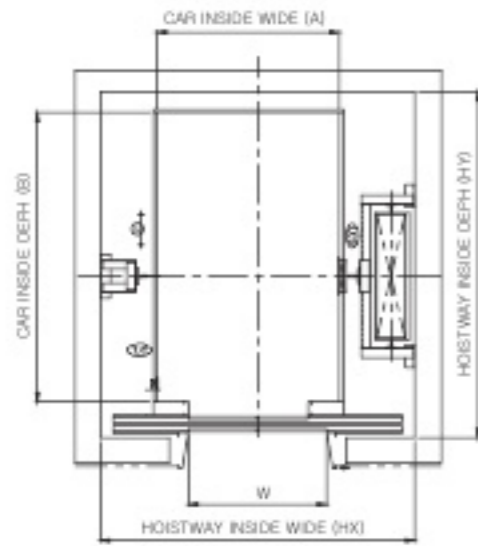
(Unit : mm)

Rated Speed (m/min)	Type	Load (kg)	Motor Output (kw)	Inverter Output (kw)	MCCB (A)		Power Supply (KVA)		Service Wire Size (mm)		Bus Wire Size (mm)	M/C Room Heat Calorie (kcal/hr)	Starting Power (KVA/sec)	
					1차	2차	1차	2차	1차	2차				
60	6	450			30	40	4.8	8.8	6	6	6	675	8.8	
	8	550	5.5	5.5	30	40	5.9	10.8	6	10	6	825	10.4	
	9	600			30	40	5.9	10.8	6	10	6	825	10.4	
	10	680	7.5	7.5	30	50	8	14.5	6	10	6	1050	13.6	
	11	750			30	50	8	14.5	6	10	6	1050	13.6	
	13	900	9.5	11	40	75	12.5	21.6	10	16	6	1500	21.0	
	15	1000			40	75	12.5	21.6	10	16	6	1500	21.0	
	17	1150	11	15	40	75	13.2	24	10	16	6	1725	21.9	
	20	1350	15	15	50	100	18.6	39.9	16	35	6	5288	29.9	
	24	1600	18.5	22	60	125	24	43.8	16	35	6	4200	39.8	
	30	2000	22	22	60	125	28	49	25	50	6	4800	42.6	
	90	8	550	7.5	7.5	30	50	8.5	14.5	6	16	6	1050	13.6
		9	600			40	75	9.6	17.4	6	16	6	1350	16.6
		10	680	9.5	11	40	75	11.2	20.3	10	16	6	1575	19.1
		11	750			40	75	12.6	24	10	16	6	1688	21.4
13		900	11	15	40	75	15.1	27.5	10	25	6	2025	25.7	
15		1000	13.5	15	40	75	16.2	29.4	16	25	6	2363	27.6	
17		1150	15	15	50	100	18	32.8	16	35	6	2588	29.9	
20		1350	18.5	22	60	125	24	43.8	16	35	6	4200	39.8	
24		1600	22	22	60	125	24	43.8	16	35	6	4200	39.8	
30		2000	30	30	75	160	28	49	25	50	6	4800	42.6	
105		8	550	9.5	7.5	40	75	11.2	20.3	10	16	6	1500	19.4
		9	600			40	75	12.5	21.6	10	16	6	1575	20
		10	680	11	11	40	75	13	23.7	10	16	6	1838	22.2
		11	750			40	75	13.9	25.4	10	25	6	1969	23.7
		13	900	13.5	15	50	100	16.2	29.4	16	25	6	2363	27.6
	15	1000			60	125	18	33.7	16	35	6	2625	30.2	
	17	1150	15	15	60	125	20.9	38	16	35	6	3019	34.7	
	20	1350	22	22	60	125	20.9	38	16	35	6	3544	36.6	
	24	1600			75	160	28	49	25	50	6	4800	42.6	
	30	2000	30	30	75	160	28	49	25	50	6	4800	42.6	

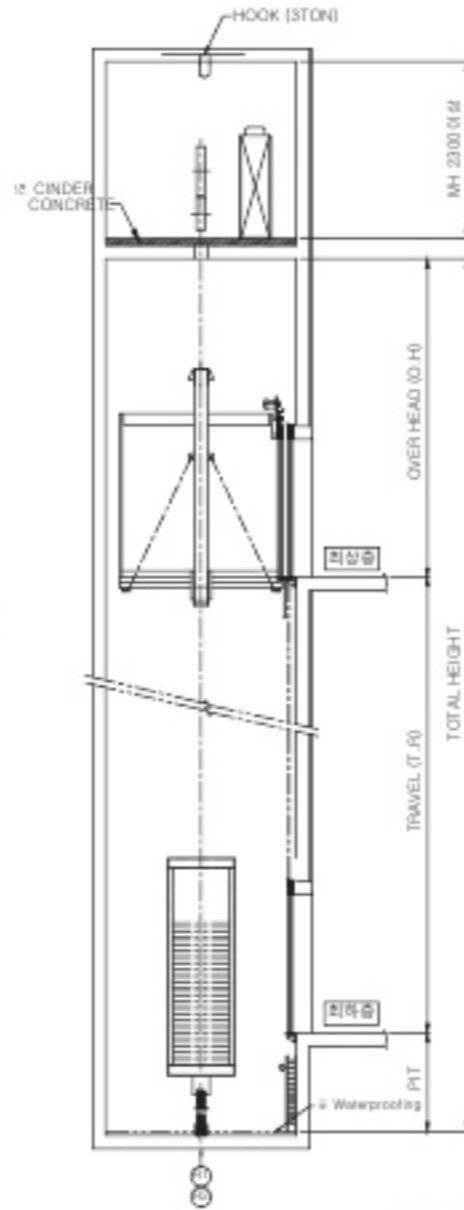
Planning Information

Passenger Elevator / Hospital Elevator

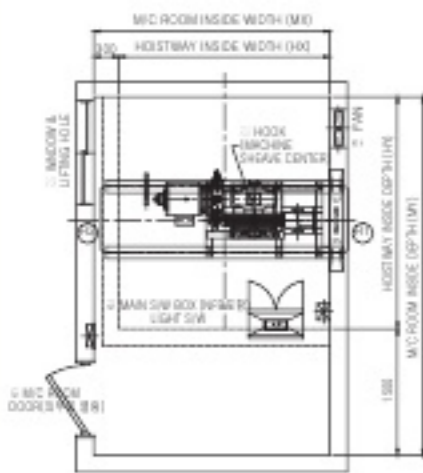
Plan of Hoistway



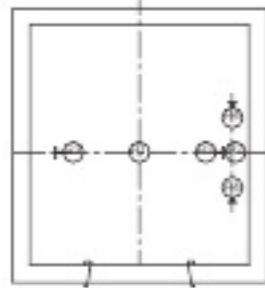
Section of Hoistway



Plan of M/C Room



Plan of PIT



Standard Specification (Minimum size)

(Unit : mm)

Rated Speed (m/min)	Type	Load (kg)	Clear Opening (m)	Car Inside (mm)		Hoistway Inside Dimension (mm)						Machine Room Inside Dimension (mm)					
				W	A	B	HX	HY	HX2	HY	HX3	HY	MX	MY	MX2	MY	MX3
60	20	1350	1100	1300	2300	2500	2750	5150	2750	7800	2750	2800	4250	5750	4250	8700	4250
				1500	2300	2600	2750	5150	2750	7800	2750	2900	4250	5950	4250	8700	4250
105	26	1750	1600	1600	2650	2650						2950	6050				

※ Travel = 40m 이하 기준. 40m OH=5000 기준

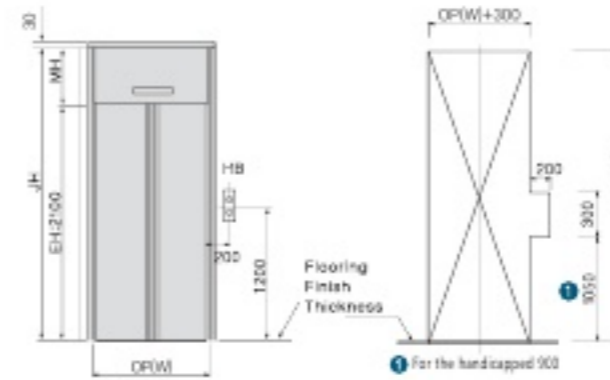
Hoistway and Machine Room size (Minimum size)

(Unit : mm)

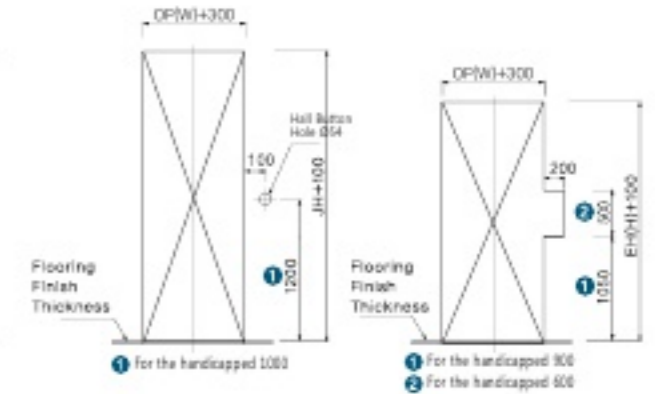
Rated Speed (V, m/min)	PIT Depth (PIT, mm)	Overhead Height (OH, mm)	Height of Machine Room (MH, mm)	M/C Room Reaction Force (N)		Reaction force on the PIT (N)	
				R1	R2	R1	R2
45	1500	4400	2300	7900	6100	8850	6700
60	1500	4600		8900	6000	10000	7350
90	1800	4800		10000	8250	15100	10850
105	2100	5000		11550	8700	13200	9600

※ Car Height = 2300mm 기준, CH변경시, 변속량만큼 OH 증가. Ex) CH = 2500mm, V=60 M/min일때, CH = 4800 필요.

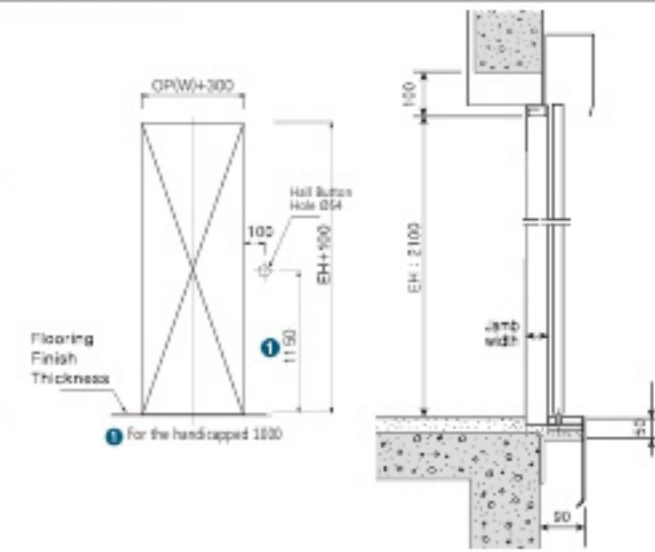
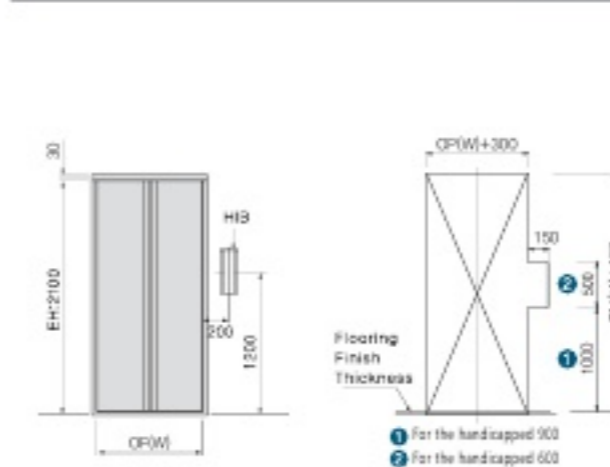
Wide Jamb (J300 Type)



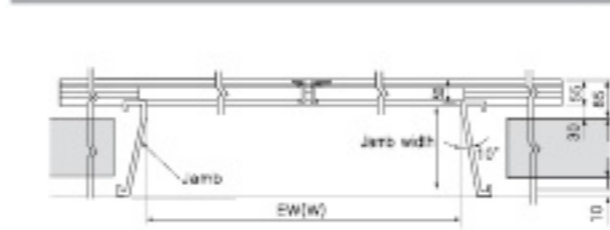
Wide Jamb (J200 Type)



Narrow Jamb (J100 Type)



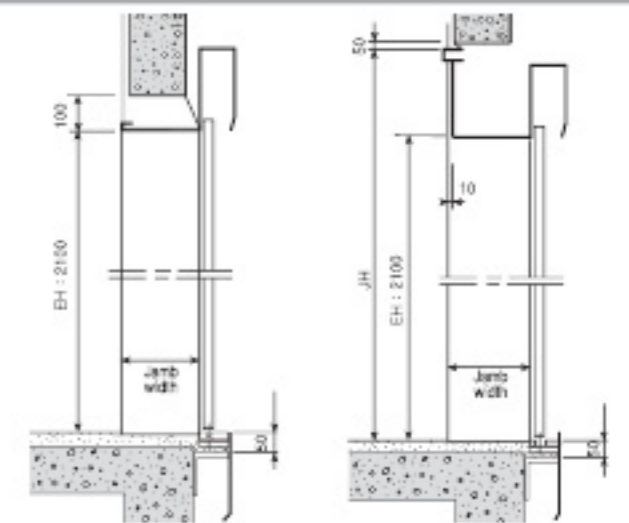
Jamb Detail



J300, J200



J100



J200

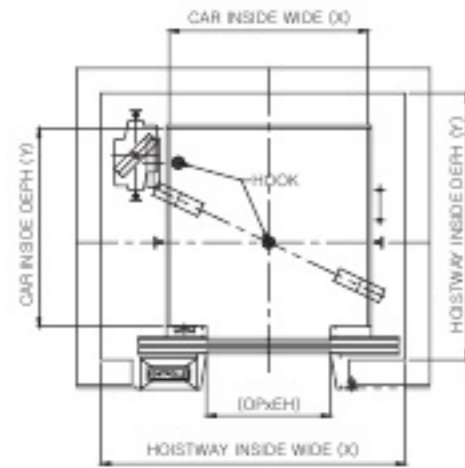
J300

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

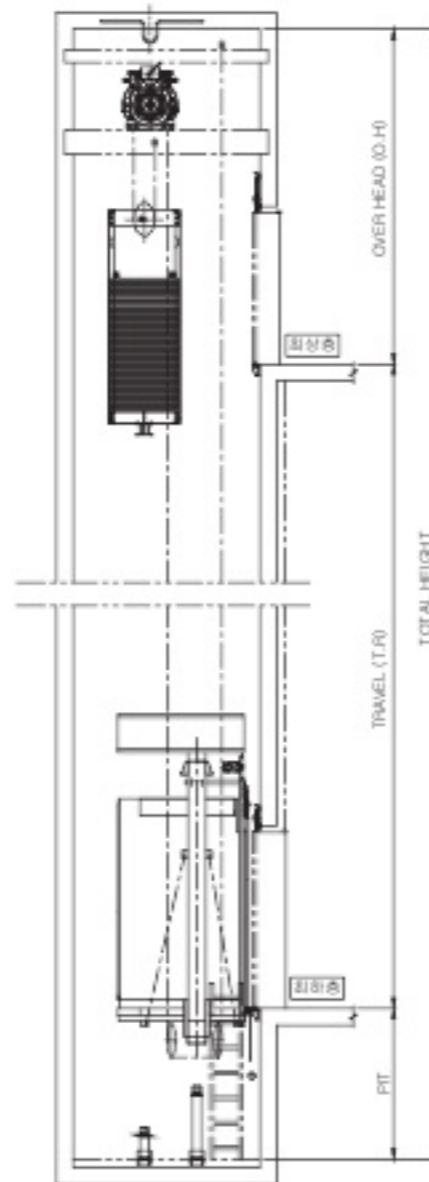
Planning Information

Passenger Elevator (MRL)

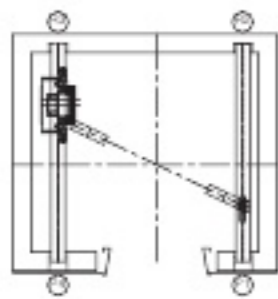
Plan of Hoistway



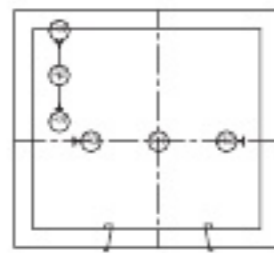
Section of Hoistway



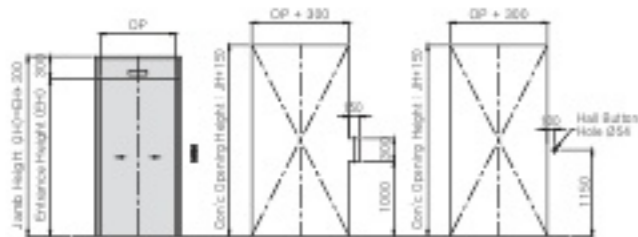
Plan of M/C Room



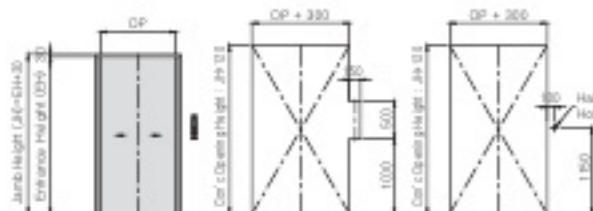
Plan of PIT



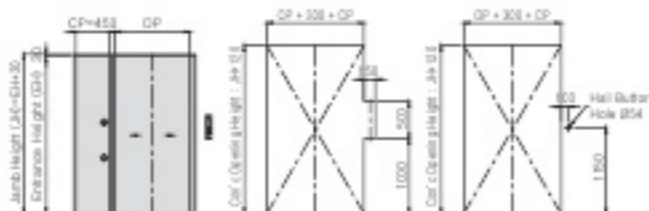
Main Entrance



Other Entrance



Other Entrance (Top Floor)



Standard Dimension MRL (Total Height 40m 기준)

(Unit : mm)

Persons	Capacity (kg)	Car Inside A x B	Entrance OP x EH	Hoistway		M/C Beam Reaction (kg)				PIT Impact Load Reaction (kg)			
				X	Y	P1	P2	P3	P4	R1	R2	R3	R4
8	550	1300x1100	800x2100	2100	1900	359.4	1510.6	3259.4	1615.6	10251.45	320	7080	5870
9	600	1400x1100	800x2100	2200	1900	380.54	1599.5	3443.2	1706.8	10791	320	7520	6200
10	680	1400x1200	800x2100	2200	1950	443.05	1656.9	3720.2	1781.8	11379.6	320	8000	6504
11	750	1400x1300	800x2100	2200	2000	508.18	1711.8	3954	1831	11968.2	320	8480	6830
13	900	1600x1350	900x2100	2400	2000	566.55	1908.5	4364	2021	14199.98	320	9500	7520
15	1000	1600x1450	900x2100	2400	2050	589.77	2045.2	4664.3	2090.7	14984.78	320	10140	7940
17	1150	1600x1600	1000x2100	2500	2150	713.79	2316.2	5554.9	2340.1	16922.25	320	11720	9190
20	1350	1800x1650	1000x2100	2750	2400	888.45	2581.5	6267.7	3037.3	20061.45	320	13480	10510
24	1600	2000x1700	1100x2100	2950	2450	1037.4	2942.6	7079.1	3480.9	22536	320	15520	12000
30	2000	2200x1900	1200x2100	3150	2550	1334.1	3305.9	8256.6	3843.4	25800.3	320	18160	13760

Hoistway Dimension

Speed (m/min)	Overhead (OH)	PIT	Deluxe (CarH+200)
60	4100	1500	4300
90	4300	1700	4500
105	4350	1800	4550

Planning Information

Excluded Construction (Building and Electrical work are excluded in the elevator installation work.)

Items	Description	Building work	Electrical work
Hoistway	Hoistway construction and fire-proofing work, and drilling of holes on wall around entrance on each floor (for landing doors, call buttons, hall indicators, hall lanterns, and etc.) and finished work and decoration of wall after equipment installation. (including mortar filling, etc.)	●	
	Installation of steel bars to fix jambs around entrance openings on each floor.	●	
	Installation of ladder and electrical inspection outlet with wiring in pit.	●	●
	Waterproof work inside pit, (including drainage if necessary) and finishing work after buffer installation.	●	
	Supply and installation of hoistway partition material or separator beams (if necessary).	●	
	Elimination of projecting parts inside hoistway and removal of tie pins, union joint beams, and/or forms.	●	
	Supply and installation of safety fence/guard for preventing fall.	●	
	Wiring work of electric outlets.		●
	Wiring and piping work for CCTV installation (if necessary).		●
	Destruction and reconstruction, if vertical plumb-line tolerance is more than 30mm.		●
Machine Room	Others (Refer to Layout drawings)	●	●
	Installation of temporary opening of equipment lifting, drilling of rope holes and wiring holes on machine room floor (including cinder concrete work on machine room floor after each item of equipment is installed).	●	
	Installation of equipment lifting hooks or hoisting beams on machine room ceiling.	●	
	Construction work of reinforcing beams in the floor (if necessary).	●	
	Free supply of temporary water during elevators installation work.	●	
	To secure the site office and separate phone line for installation work, and the stock yard for equipment and materials without charge.	●	
	Machine room entrance shall be of size 900(W)x2000(H) and cannot be used as passageway leading to any other place. Forced locking system (automatic-closing) shall be furnished.	●	
	Installation of site like piping and wiring work should be done, if interphones are installed in areas other than machine room.		●
	Installation of lighting facilities and electrical inspection outlets.		●
	Temporary power supply facilities during elevators installation work and power supply without charge.		●
Matters required attention of related works	Piping and wiring work for elevator monitoring system, if necessary.		●
	Installation of lead-in wire and earth wire lead-in between building main power board and machine room incoming distribution power board. (However, machine room lighting power supply shall be separately installed.)		●
	Access to the machine room and machinery spaces as required by the governing code or authority, if none, use one fireproof door and should not be used for the passage to the other places.	●	
	The exposure or burying of ducts, pipes for other purposes (electricity, water, gas, fire hydrant) should be avoided inside and on the wall of machine room and hoistway. For further consideration refer to your region's governing code or authority.	●	
	Underspace of Pit should not be used for residential, for passage or for other purposes.	●	
Matters required attention of related works	Electrical system shall be installed in such way that power supply voltage variation must be below -10% ~5%	●	
	Installation work of ventilation or air-conditioning devices in machine rooms should be done. Please take care not to allow the temperature in machine rooms exceed 40°C and humidity shall be controlled not exceeding 90%. Toxic gas and/or dust should not be generated.	●	

Standard & Option Features

Function	Description	Standard	Option
Automatic operation	All the elevator operation runs automatically by registered calls.	●	
Car door safety edge	This sensitive mechanical door edge detects passengers or objects upon contact during door closing and reopens automatically.	●	
Automatic turn off of car light and fan	The lights and ventilation fan are automatically turned off to save energy if there is no call registered for a period of time. If there is a call registered again, it works again.	●	
Door interlock switch	When the door is opened, the switch installed at the door operator is activated and keeps the car from moving. During the operation of car, it locks the door completely so as not to open from outside. (If needed, key should be used)	●	
Interphone	In case of emergency, interphone allows two-way communication between passengers and building personnel.	●	
Overload warning	To prevent the overload of elevator, this device sounds a buzzer and the elevator remains stopped at that floor when the number of passengers exceeds the rated capacity. In this case, the door is not closed and when the excess number of passengers get out of the car, the buzzer stops and the elevator door closes.	●	
Car call cancellation	If passengers wrongly register the call, this can be cancelled simply by push again.	●	
Safety drive preventing lock-in car	During the operation if the car stops between floors, and safety device doesn't work, the car automatically moves to the nearest floor with the low speed. Then, it opens the door to allow the passengers to exit off.	●	
Automatic door-open time adjustment	Maximize the operation efficiency by automatical adjusting of door opening time according to the elevator usage.	●	
Car arrival chime	It provides an audible indication to the passengers in car or hall that an elevator is about to arrive.	●	
Multi-beam door sensor	Multi-beam from the top to the bottom of the door senses any obstruction caught in the door. It makes the door open again, or keeps open before the door is touched by such obstruction.	●	
Voice synthesizer	A voice synthesizer with microprocessor makes announcement to inform passenger of various conditions, including landing floor and operation direction, etc.	●	
Parking	The car can be parked at a specified floor, during the nights or holidays with operating the parking switch on hall.		●
Anti- nuisance	Evaluates the number of people on the car and compares that value to the number of the car calls registered. If the number of car calls exceeds the number of people in the car by the load sensor, after moving to the nearest floor all the car call will be cancelled to prevent unnecessary service.		●
Fire emergency service	When a fire breaks out, all cars activated by the switch or fire detector are immediately returned to a specified rescue floor for the passenger's safety.		●
Emergency power operation	During normal power failure, elevator service continues (recall or normal operation) by automatically or manually chosen elevators according to the building's independent power capacity.		●
Fireman's emergency service	By fireman key switch, all the registered calls will be cancelled and operated by fireman's car call only. (Elevator for emergency)		●
Emergency landing device	In the event of the power failure, the elevator power automatically switches to a rechargeable battery built-in controller that moves the car to the nearest floor and allows passengers to safety exit. (Used where independent power generating is unavailable)		●
Attendant operation	For urgent moving of emergency patient, elevator transfers to operator-only mode. (If this function is activated, the elevator will move directly to the emergency floor with all other registered calls neglected. During this all hall position indicators will show hospital emergency lamps lighting, so inform such situation to the other waiting passengers.)		●
Seismic operation	When the seismic sensor is activated, all cars promptly proceed to land at the nearest floor and park with the doors open to allow passengers to exit safely.		●
In-house call	By installing elevator call button board in house, people can elevator earlier and conveniently.		●

Planning Information

▶ 제외공사 (다음 사항은 엘리베이터 설치공사에 포함되지 않는 건축 및 전기공사입니다.)

구분	작업 내용	건축	전기
승강로 관계	각 층 출입구 주위 벽의 구멍 돌기 공사 (출입구, 승강 버튼, 위치 표시기, 울 랜턴 등) 및 기기 설치 후의 벽 및 바닥 마감공사 (물탈채우기 포함)	●	
	출입구 좌·우측 문틀 고정용 철근 설치 공사	●	
	피트 점검용 사다리 및 콘센트 설치공사	●	●
	피트 내 방수처리공사 및 완충기 취부 후의 마감공사	●	
	승강로 칸막이 또는 중간벽체의 공급 및 이의 설치공사 (필요시)	●	
	각종 TIE PIN 제거 및 거푸집 제거	●	
	각 층 출입구에 추락방지용 안전 난간대 설치	●	
	콘센트 배선 공사		●
	CCTV 설치 시 전선의 배관·배선 공사		●
	승강로 기울기는 0~30mm 이내로 시공		●
기타 (도면에 표시된 사항)	●	●	
기계실 관계	기계실 바닥의 기기 반입구, 로프 구멍 돌기, 기타 도면에 표기된 사항 및 마감공사 (신데콘크리트)	●	
	기계실 천장의 활차용 빔 또는 후크 설치공사	●	
	기계실 바닥 보강빔재 설치공사 (필요시)	●	
	설치공사 기간 중 공사용 용수 무상공급	●	
	공사용 사무실 및 기자재 보관 장소의 무상 제공	●	
	승강기 설치 착공 이전에 기계실 출입문 설치	●	
	기계실 이외의 장소에 인터폰 설치 시 승강로 밖의 배관·배선 공사, 마감공사		●
	기계실의 조명설비 및 점검용 조명 콘센트 설비공사		●
	설치공사 기간 중 공사용 및 시운전용 가설 전원공사 및 전력 무상공급		●
	감시반 적용 시 (감시반~승강로)의 감시반용 전선 배선, 배관 공사		●
동력 및 케이블 내 조명, 비상 전원의 기계실 수전반까지의 인입공사 및 수전반 공급 설치공사		●	
관계공사 유의사항	기계실 출입구는 방화문으로 1개소이며 타 장소와의 통로가 되지 않는 구조로 설치 바랍니다.	●	
	기계실 내부, 승강로 내부 및 벽체에는 타 용도의 덕트, 배관 (전기, 수도, 가스, 소화전) 등의 노출, 매립은 피하여 주시기 바랍니다.	●	
	피트 하부는 사람의 주거용 및 통로, 기타 다른 용도로 사용할 수 없습니다.	●	
	전원·전압의 변동은 -10%~5% 이내가 되도록 전원 설비 바랍니다.	●	
	기계실 온도는 40°C, 습도는 90% 이하로 유지되도록 환기창, 환풍기 또는 기타 공조시설 (空調施設) 을 설치하여 주시기 바라며, 유독가스의 발생, 분진 등이 없도록 유의 바랍니다.	●	

▶ 표준 및 선택 사양표

기능	상세 내용	표준	선택
전자동 운전방식	등록된 호출에 의해 엘리베이터의 모든 운전 과정이 자동으로 수행되는 기능	●	
출입문 안전장치	엘리베이터 문에 승객 또는 물건이 끼었을 때, 자동으로 다시 열리도록 하는 장치 (문이 완전히 닫히지 않으면 엘리베이터가 출발하지 않습니다.)	●	
환풍기, 조명 자동 소멸 기능	승강 및 카 호출이 전혀 없는 경우 일정 시간 경과 후 카 내부의 조명을 끄고 Fan을 정지시키며, 다시 카 호출이 있으면 조명과 Fan이 작동하는 기능	●	
도어 인터록 스위치	승강 도어 구동장치에 취부된 도어 안전장치로서 승강장 출입문이 열렸을 때는 카가 운행할 수 없도록 하며, 카가 운행 중에는 승강장 출입문을 외부에서 열 수 없도록 완전히 채우는 장치 (단, 필요시 Key 사용함)	●	
인터폰	비상시에 엘리베이터 안에서 외부 (관리실, 방재센터)와 긴급 연락을 취할 수 있는 장치	●	

▶ 표준 및 선택 사양표

기능	상세 내용	표준	선택
정원 초과시 경보장치	엘리베이터 내의 정원 초과를 방지하기 위하여 정적의 중량이 초과하면 부저가 울리도록 하는 장치 (이 경우 문이 닫히지 않습니다. 초과된 인원이 하차 하여 적정 정원이 되면 부저음은 정지되고 엘리베이터는 출발합니다.)	●	
카 부름 등록 취소 기능	승객이 목적 층을 잘못 등록하였을 경우, 해당 층의 버튼을 한번 더 눌러 취소하는 기능	●	
카 내 갇힘 방지 운전 기능	운전 중 어떤 고장으로 인해 정지한 경우, 안전장치가 작동되지 않는 한 지정 층까지 자동으로 저속 운행되어 착상하고 도어를 열어 높음으로써 승강기 내 갇힘 사고를 방지하는 기능	●	
카 도어 개폐시간 자동조정 기능	엘리베이터 이용 상태에 따라 도어 개폐시간을 자동 조절하여 운전 효율을 극대화하는 기능	●	
도착 알림 기능	엘리베이터 도착 시 신호음을 울려 카 또는 홀 측 승객에게 도착을 알려주는 기능	●	
파킹 기능	야간·휴일 등 엘리베이터를 사용하지 않을 때 지정된 층에서 휴지시키는 기능		●
멀티 빔 도어센서	엘리베이터 도어 열림 시 도어의 전 영역 (상단부터 하단까지)에 적외선 빔을 형성하는 시스템 (빔 중에 하나라도 방해물 있으면 도어가 다시 열리거나 닫히지 않습니다.)		●
장난 부름 방지 기능	엘리베이터 탑승 정원보다 현저히 많은 호출이 등록되어 장난 부름이라고 판단될 때 최근접 층까지 운행한 후 모든 카측 부름 등록을 일제히 취소시켜 불필요한 운행을 방지하는 기능		●
화재 관제운전 기능	화재 발생 시 화재 감지기 또는 스위치에 의해 작동되어 승객을 미리 지정된 피난 층으로 대피시키는 기능		●
음성 합성 안내 장치	음성 합성 전용 마이크로프로세서에 합성된 음성에 의하여 엘리베이터의 운행 상태 (행선 방향 및 도착 층)를 자동으로 안내방송해주는 장치		●
자가발전 관제운전 기능	건물 측의 자가발전 전원 용량에 적합한 대수를 자동 또는 수동으로 선택하여 복귀 운전 또는 통상 운전을 하는 기능		●
소방 관제운전 기능	키 스위치에 의하여 피난 층에 대기 중인 카의 모든 부름을 취소시킴과 동시에 소방관의 카 부름에 대해서만 운전을 수행하게 하는 기능 (비상용 엘리베이터)		●
정전 시 자동착상 기능	정전 시 컨트롤러에 내장된 배터리의 전원으로 엘리베이터를 자동적으로 최근접 층까지 저속으로 운행하여 승객의 갇힘 사고를 방지하는 기능 (자가발전 설비가 없을 때 사용합니다.)		●
운전자 전용운전 기능	수술 또는 응급환자를 급히 이동시키거나 아파트 등지에서 이사를 할 때 엘리베이터를 전용 운전자 전용으로 전환하여 사용하는 기능 (전용 운전이 시작되면 전용 정동 된 버튼의 층까지 곧바로 운행하여 그 외의 정동된 버튼은 서비스되지 않습니다. 이때 각 승강장의 위치 표시기에는 "응급 운전" 램프가 점등 되어 대기 중이 승객에게 응급환자 발생 등으로 인해 승강기 이용 서비스가 지연됨을 알려줍니다.)		●
지진 관제운전 기능	지진 감지기가 동작하면 모든 엘리베이터를 인접 층에 착상시켜 지진에 의한 피해를 방지하는 기능		●
영상감시시스템	기존 CCTV, DVR 및 엘리베이터 감시/제어 시스템을 하나로 통합한 초고속 네트워크 기반의 고품질 디지털 영상감시 시스템		●
비상통화 장치	카 내부에서 비상호출 시 관리실에 사람이 없어 응답할 수 없을 경우 미리 입력해 놓은 전화번호를 자동으로 호출하는 장치 (승객의 불안감을 해소시키고 엘리베이터를 안전하게 사용할 수 있게 합니다.)	●	
세대 내 호출 기능	세대 내 또는 실내에 엘리베이터 호출 조작반을 설치하여 세대 내 또는 실내에서 미리 엘리베이터를 호출할 수 있도록 하는 기능		●