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PLANNING GUIDE


HYUNDAI
ELEVATOR CO., LTD.

Contents

Elevators Layout Plan

THE EL/ I-XEL Gearless Elevators 3~10m/sec	04
LUXEN Gearless Elevators 1.0~2.5m/sec	06
LUXEN Gearless Elevators 1 SIDE TYPE, 2 SIDE TYPE ELEVATORS	08
LUXEN Gearless Elevators 3 SIDE TYPE, ROUND TYPE ELEVATORS	10
LUXEN Gearless Elevators NUDE TYPE ELEVATORS	12
NEW YZER MRL(Machine-Room-Less) Elevators	13
NEW YZER MRL Elevators 1 SIDE TYPE, 2 SIDE TYPE ELEVATORS	16
NEW YZER MRL Elevators NUDE TYPE ELEVATORS	18
Freight Elevators General Type (2S, 2U, 3U)	20
Automobile Elevators General Type (2U, 3U)	22

Entrance Layout Plan

General Type(JP050, JP100, JP200)	23
Only for Top Floor of the Machine-Room-Less Elevators (CP110, CP210)	24
2-Panel Center-Opening Doors(1S-C0)	25
2-Panel Side-Opening Doors (2S-S0)	26
2-Panel Up-Sliding Doors (2U)/4-Panel Center-Opening Doors(2S-C0)	27

Escalators / Moving Walks Layout Plan

S-Series Escalators (30°)-COMMERCIAL TYPE	28
S-Series Escalators (35°)-COMMERCIAL TYPE	29
S-Series Escalators (Vertical Rise 8M<H≤10.5M)	30
S-Series Escalators (Vertical Rise 10.5M<H≤16M)	31
S-Series Escalators(Vertical Rise 16M<H≤22M)	32
Moving Walks (0°)	33
Moving Walks (12°)	34

Constructions excluded from our supply scope	36
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Electric Power Requirements (By others)	37
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Selection of Elevator System

The selection of elevators should be made in consideration of the building type/scale, tenant characteristics, elevator usage and the anticipated passenger carrying capacity at the building's traffic peak time.

Hyundai elevators are available from machine-room-less elevators to low-medium and ultra high-speed elevators, covering the full range of vertical transportation requirements.

And a variety of functional and attractive designs per usages, such as passenger, service, observation, hospital bed, freight and automobile elevators are offered for architects' and customers' flexible applications.

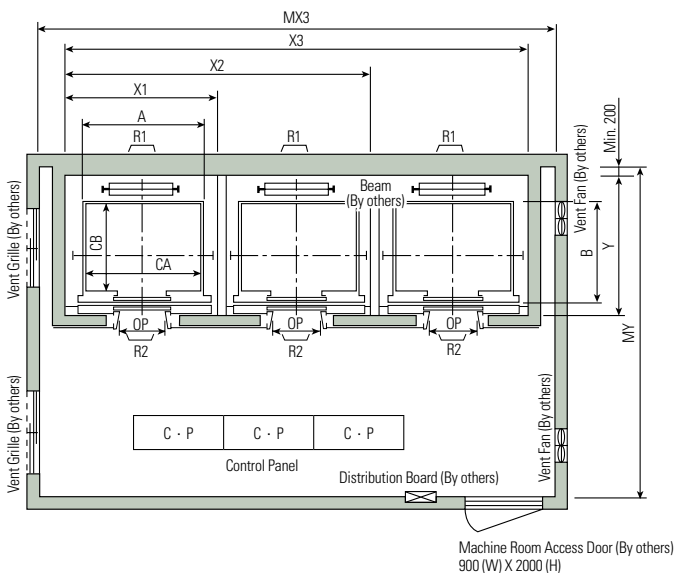
Kinds of Building	Usage	Control	Speed (m/sec)	Operation
Low-Rise Apartment Low-Rise Building	Passenger Observation Hospital	Gearless (*include MRL)	1.0	1 Car : Selective Collective 2 Cars : Duplex Selective Collective
Mid-Rise Apartment Mid-Rise Building	Passenger Observation Hospital	Gearless (*include MRL)	1.0~2.5	3-8 Cars : Group Supervisory
High-Rise Apartment High-Rise Building	Passenger	Gearless	3.0~18.0	1 Car : Selective Collective 2 Cars : Duplex Selective Collective 3-8 Cars : Group Supervisory
Factory, Warehouse	Freight	Gearred	0.4, 0.5, 0.75, 1.0	Single Automatic 1 Car : Selective Collective 2 Cars : Duplex Selective Collective
Parking Building	Automobile	Gearred	0.5, 0.75	Single Automatic

▲ Notes : The table shows the common method of elevator system selection per usages.

THE EL/ I-XEL GEARLESS ELEVATORS

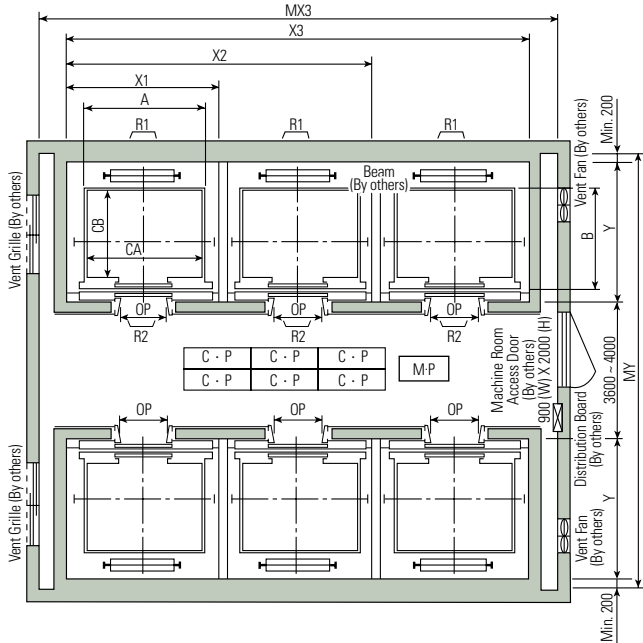
High-Speed/Ultra-High-Speed Elevators | 3~10m/sec

Plan of Hoistway & Machine Room (In-Line Arrangement of 3 Units)

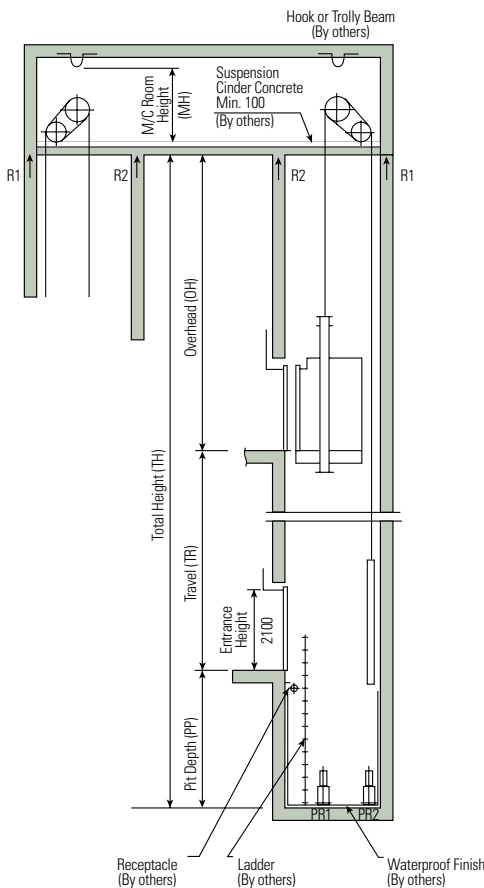


▲ Notes : Temperature should be maintained below 40°C and humidity below 90%, with installation of a ventilating fan, ventilating grille, and air conditioner (if necessary). Toxic gas or dust should not be generated.

Face-to-Face Arrangement



Section of Hoistway



Standard Dimensions & Reactions

(Unit : mm)

Capacity		Speed (m/sec)	Opening Type	Door Width (mm)	Car Insize (mm)	Hoistway Insize (mm)	Machine Room Size (mm)	M/C Room Reaction (kg)		Pit Reaction (kg)	
Ps	kg			OP	CA × CB	X × Y	MX1 × Y	R1	R2	PR1	PR2
13 (12)	900	3.0	1S-CO	900	1600 x 1350	2300 x 2150	2800 x 4400	12030	6650	13100	11300
			2S-SO	900	1300 x 1600	2200 x 2100	2700 x 4300				
15 (13)	1000		1S-CO	900	1600 x 1500	2300 x 2300	2800 x 4550	12800	6950	14600	12600
			2S-SO	900	1100 x 2100	2200 x 2600	2700 x 4800				
17 (15)	1150		1S-CO	1000	1800 x 1500	2500 x 2300	3000 x 4550	13080	7150	17200	14900
			2S-SO	1000	1200 x 2200	2300 x 2700	2800 x 4900				
20 (18)	1350	3.5	1S-CO	1000	1800 x 1700	2500 x 2500	3000 x 4750	14350	7650	18800	16100
			2S-SO	1100	1300 x 2300	2400 x 2800	2900 x 5000				
24 (21)	1600		1S-CO	1000	2000 x 1750	2700 x 2550	3200 x 4800	15100	8100	21000	17100
			2S-SO	1100	1400 x 2400	2500 x 2900	3000 x 5100				
15 (13)	1000	4.0	1S-CO	900	1600 x 1500	2300 x 2300	2800 x 4550	12800	7800	14600	12600
			2S-SO	900	1100 x 2100	2300 x 2600	2800 x 4800				
17 (15)	1150		1S-CO	1000	1800 x 1500	2500 x 2300	3000 x 4550	14100	8000	17200	14900
			2S-SO	1000	1200 x 2200	2400 x 2700	2900 x 4900				
20 (18)	1350		1S-CO	1000	1800 x 1700	2500 x 2500	3000 x 4750	15100	8050	18800	16100
			2S-SO	1100	1300 x 2300	2500 x 2800	3000 x 5000				
24 (21)	1600	4.0	1S-CO	1100	2000 x 1750	2700 x 2550	3200 x 4800	15700	8100	21000	17100
			2S-SO	1200	1400 x 2400	2600 x 2900	3100 x 5100				

(Unit : mm)

Capacity		Speed (m/sec)	Opening Type	Door Width (mm)	Car Insize (mm)	Hoistway Insize (mm)			Machine Room Size (mm)			M/C Room Reaction (kg)		Pit Reaction (kg)		
Persons	kg			OP	CA × CB	X1	X2	X3 × Y	MX1	MX2	MX3 × Y	R1	R2	PR1	PR2	
17 (15)	1150	5.0	1S-CO	1000	1800 x 1500	2600	5100	7800 x 2450	3000	6200	9100 x 5900	17500	13000			
20 (18)	1350			1000	1800 x 1700	2600	5100	7700 x 2650	3000	6200	9100 x 6000	17800	13200			
				1100	2000 x 1500	2800	5500	8300 x 2450	3200	6200	9100 x 5900					
24 (21)	1600			1100	2000 x 1750	2800	5500	8300 x 2700	3200	6500	9100 x 6300	18100	13500			
		6.0		1100	2150 x 1600	2950	5800	8750 x 2500	3400	6500	9400 x 6200					
17 (15)	1150			1000	1800 x 1500	2700	5400	7900 x 2500	3200	6400	8900 x 6000					
20 (18)	1350	7.0 ~		1100	2000 x 1500	2900	5900	8750 x 2500	3500	6700	9500 x 6300					
24(21)	1600			1100	2000 x 1750	2900	5900	8750 x 2750	4300	6700	9500 x 6300					

▲ Notes : 1. The table of dimensions as per Hyundai standard or EN81, For other country codes and spec requirements, Please contact us.
2. If apply the safety gear on Counterweight side, please contact us
3. If apply through(180 degree) type, please consult with us.
4. Rail Bracket Pitch Applied with 2,000mm for 3.0m/s
5. The Hoistway dimensions width & depth are based on clear dimension ±20mm horizontal tolerances over the total hoistway height
6. () : Noted Rated Capacity and number of Person(Ps), as required by EN81

Overhead & Pit Depth

(Unit : mm)

Speed (m/sec)	Overhead (OH)	Pit (PP)	M/C Room Height (MH)
3.0	6000	2700	2500
3.5	6400	3200	2800
4.0	7100	3850	2800
5.0	8000	4200	3000
6.0	8300	4300	3000

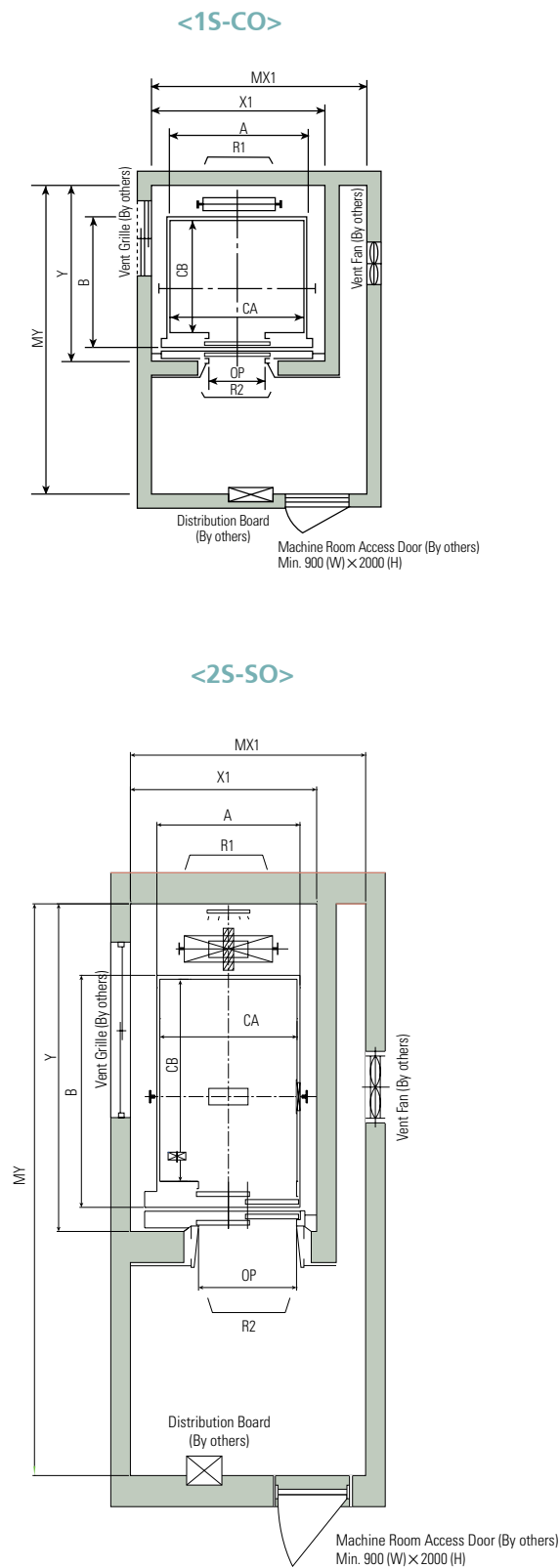
Speed (m/sec)	Overhead (OH)	Pit (PP)	M/C Room Height (MH)
7.0	8500	6000	3200
8.0	9500	6400	3500
9.0	9750	8800	3500
10.0	10000	9000	3500

▲ Notes : 1. The above table shows minimum figures. Therefore, some allowances should be made considering errors that may occur during construction.
2. In case car height is over 2800mm, overhead should be applied above dimension plus additional height.

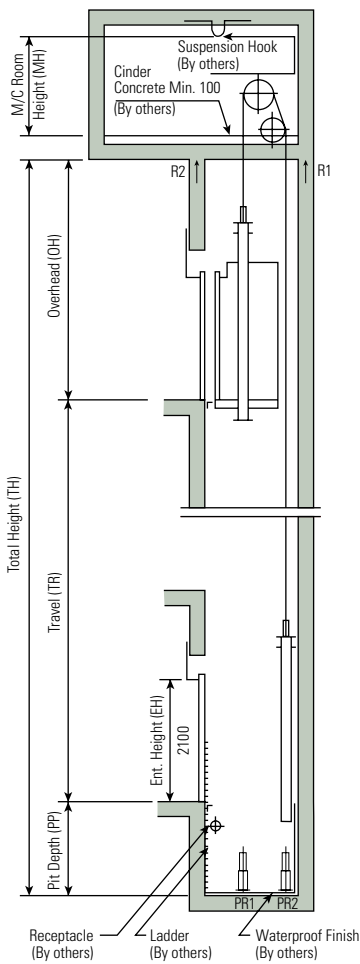
LUXEN GEARLESS ELEVATORS

Passenger Elevators | 1.0~2.5m/sec

Plan of Hoistway & Machine Room



Section of Hoistway



Standard Dimensions & Reactions

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(Unit : mm)

Capacity		Speed (m/sec)	Opening Type	Door Width (mm)	Car Size (mm)	Hoistway Size (mm)	Machine Room Size (mm)	M/C Room Reaction (kg)		Pit Reaction (kg)	
Persons	kg			OP	CA × CB	X1 × Y	MX1 × Y	R1	R2	PR1	PR2
6	450	1.0	1S-CO	800	1400 x 850	1800 x 1500	2100 x 3150	3600	2000	5400	4500
8(7)	550(525)			700	1100 x 1100	1550 x 1750	1900 x 3400	3600	2000	5400	4500
9(8)	600(630)			800	1400 x 1030	1800 x 1650	2100 x 3350	4050	2250	6000	4900
10(9)	700(675)			800	1300 x 1100	1800 x 1750	1800 x 3400	4050	2250	6000	4900
11(10)	750(800)			800	1400 x 1100	1800 x 1750	2100 x 3400	4100	2450	6300	5100
13(12)	900			800	1400 x 1400	1800 x 2000	1800 x 3500	4100	2450	6300	5100
15(13)	1000			800	1400 x 1250	1800 x 1850	2100 x 3550	4200	2700	6800	5400
17(15)	1150			800	1400 x 1350	1800 x 1950	2100 x 3650	4550	2800	7100	5600
20(18)	1350			800	1400 x 1350	1800 x 2000	2100 x 3650	4550	2800	7400	5800
24(21)	1600			900	1600 x 1350	2050 x 2000	2350 x 3700	5100	3750	8100	6300
13(12)	900	1.5	1S-CO	900	1600 x 1500	2050 x 2150	2350 x 3850	5450	4300	8600	6600
15(13)	1000			900	1100 x 2100	2050 x 2000	2050 x 2000	5450	4300	8600	6600
17(15)	1150			1000	1800 x 1500	2350 x 2200	2650 x 3900	6600	5100	11000	8700
20(18)	1350			900	1200 x 2200	2250 x 2600	2600 x 4000				
24(21)	1600			1000	1800 x 1700	2350 x 2400	2650 x 4100	7800	6000	12200	9500
13(12)	900			1100	2000 x 1500	2550 x 2250	2850 x 3900				
15(13)	1000			1100	2000 x 1750	2550 x 2500	2850 x 4150	8500	6800	13600	10400
17(15)	1150			1100	2150 x 1600	2750 x 2350	3000 x 4000				
20(18)	1350			900	1600 x 1350	2200 x 2100	2700 x 4100	12030	6630	9000	7500
24(21)	1600			900	1600 x 1500	2200 x 2250	2700 x 4250	12800	6950	9400	8000
13(12)	900	2.0	1S-CO	1000	1800 x 1500	2400 x 2250	2900 x 4250	13080	7100	11000	8700
15(13)	1000			900	1200 x 2200	2300 x 2600	2800 x 4100				
17(15)	1150			1000	1800 x 1700	2400 x 2450	2900 x 4450	14350	7650	12200	9500
20(18)	1350			1100	2000 x 1500	2600 x 2250	3100 x 4250				
24(21)	1600			1100	2000 x 1750	2600 x 2450	3100 x 4500	15100	8100	13600	10400
13(12)	900			1100	2150 x 1600	2750 x 2350	3250 x 4350				
15(13)	1000			1100	2150 x 1600	2750 x 2350	3250 x 4350				
17(15)	1150			1100	2150 x 1600	2750 x 2350	3250 x 4350				
20(18)	1350			1100	2150 x 1600	2750 x 2350	3250 x 4350				
24(21)	1600			1100	2150 x 1600	2750 x 2350	3250 x 4350				

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(Unit : mm)

Capacity		Speed (m/sec)	Opening Type	Door Width (mm)	CWT Drop	Car Insize (mm)	Hoistway Insize (mm)	Machine Room Size (mm)	M/C Room Reaction (kg)		Pit Reaction (kg)	
Persons	kg			OP		CA × CB	X × Y	MX × MY	R1	R2	R3	R4
6	450	1.0	2S-SO	800	Rear	1100 x 1100	1550 x 1800	1800 x 3600	3600	2000	5400	4500
8(7)	550(525)			800	Rear	1100 x 1300	1550 x 2000	1800 x 3800	4050	2250	6000	4900
9(8)	600(630)			800	Side	1100 x 1400	1850 x 1850	1800 x 3800	4100	2450	6300	5100
10(9)	700(675)			800	Side	1200 x 1400	1950 x 1850	2100 x 3800	4200	2700	6800	5400
12(10)	800			800	Side	1300 x 1400	2050 x 1850	2200 x 3800	4550	2800	7100	5600
13(12)	900			900	Side	1300 x 1600	2050 x 2050	2200 x 4200	5100	3750	8100	6300
15(13)	1000			900	Side	1100 x 2100	1900 x 2550	2200 x 4350				
17(15)	1150			1100	Rear	2100 x 1100	2550 x 1850	2850 x 3900	5450	4300	8600	6600
20(18)	1350			1000	Side	1200 x 2100	2150 x 2600	2400 x 4400	6600	5100	11000	8700
24(21)	1600			1100	Side	1300 x 2300	2250 x 2750	2550 x 4500	7800	6000	12200	9500
13(12)	900	1.5	2S-SO	1200	Side	1400 x 2400	2350 x 2850	2650 x 4600	8500	6800	13600	10400
15(13)	1000			900	Side	1300 x 1600	2250 x 2100	2550 x 4150	12030	6630	9000	7500
17(15)	1150			900	Side	1100 x 2100	2000 x 2550	2300 x 4600	12800	6950	9400	8000
20(18)	1350			1100	Rear	2100 x 1100	2700 x 1900	3000 x 3950	13080	7100	11000	8700
24(21)	1600			1000	Side	1200 x 2100	2200 x 2600	2500 x 4650	14350	7650	12200	9500
13(12)	900			1100	Side	1300 x 2300	2300 x 2750	2600 x 4800				
15(13)	1000			1200	Side	1400 x 2400	2400 x 2850	2700 x 4900	15100	8100	13600	10400
17(15)	1150			1200	Side	1400 x 2400	2400 x 2850	2700 x 4900				
20(18)	1350			1200	Side	1400 x 2400	2400 x 2850	2700 x 4900				
24(21)	1600			1200	Side	1400 x 2400	2400 x 2850	2700 x 4900				

- ▲ Notes : 1. The table of dimensions as per Hyundai standard or EN81, For other country codes and spec requirements, Please contact us.
2. If apply the safety gear on Counterweight side, please contact us
3. If apply through(180 degree) type, please consult with us.
4. Rail Bracket Pitch: Applied with 2,000mm for 2.0m/s(with Travel 110~150m) & 2.5m/s
5. The Hoistway dimensions width & depth are based on clear dimension ±20mm horizontal tolerances over the total hoistway height
6. (): Noted Rated Capacity and number of Person(Ps), as required by EN81

Overhead & Pit Depth

(Unit : mm)

Duty Load (kg)	Speed (m/s)	Overhead (OH) ^{*)}		Pit Depth (PP)	M/C Room Height (MH)
		EN81-1	EN81-20		
450 ~ 1150	1.0	CH+1850	CH+2300	1250	2200
	1.5	CH+2000	CH+2400	1350	2400
	1.75	CH+2050	CH+2450	1400	2400
	2.0	CH+2200	CH+2600	1900	2600
	2.5	CH+2600	CH+2800	2200	2600
1350 ~ 1600	1.0	CH+1850	CH+2300	1350	2200
	1.5	CH+2000	CH+2400	1450	2400
	1.75	CH+2050	CH+2450	1500	2400
	2.0	CH+2200	CH+2600	2000	2600
	2.5	CH+2600	CH+2800	2200	2600

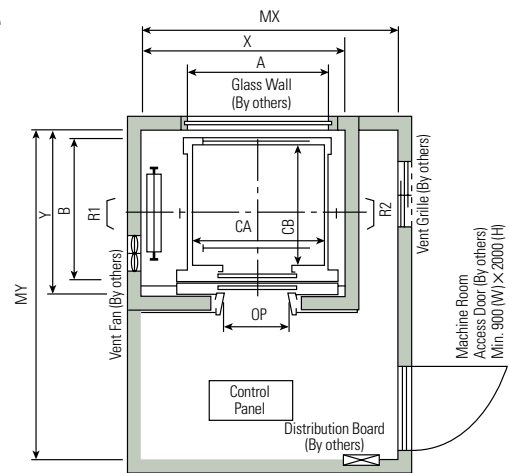
- ◀ Notes : 1. Above dimensions are applied base on EN81-1 & EN81-20.
2. For OH: Base on the distance between the car top safety guard and shaft wall is less than 500mm. The above 500mm, OH should be added 400mm for EN81-20
3. In case of Travel is above 120m, Pit depth should be increased. Please contact us
4. M/C room height shall be increased 200mm in case of the traction machine with double isolation pad.
5. Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner(if necessary) and humidity below 90%.
6. If the height of non-stop floor is over 11m, please consult Hyundai as to the needs for emergency exit.

LUXEN GEARLESS ELEVATORS

Observation Elevators | 1 SIDE TYPE, 2 SIDE TYPE ELEVATORS

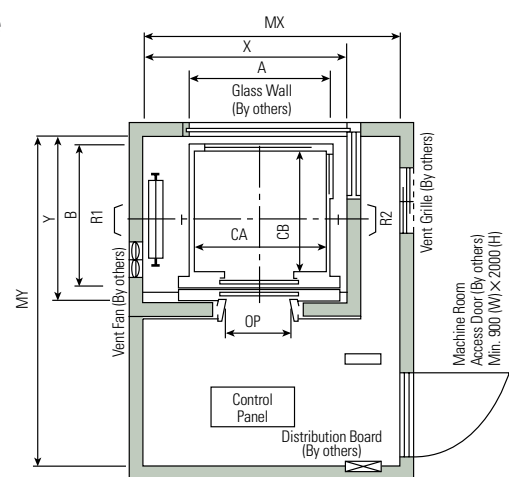
Plan of Hoistway & Machine Room

1 Side Type

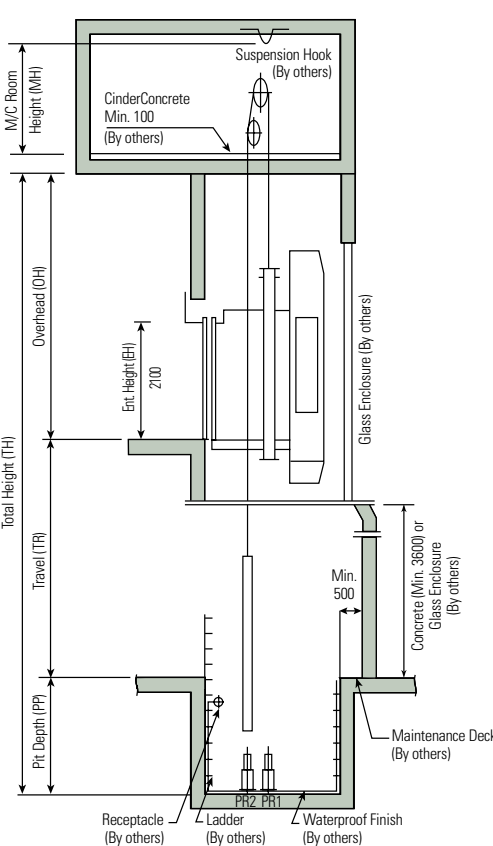


▲ Notes : Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner (if necessary) and humidity below 90%.

2 Side Type



Section of Hoistway



Standard Dimensions & Reactions

(Unit : mm)

Type	Speed (m/sec)	Capacity		Opening Type	Opening Size (mm)	Car size (mm)	Hoistway size (mm)	Machine Room Size (mm)	M/C Room Reaction (kg)		Pit Reaction (kg)	
		Persons	kg						R1	R2	PR1	PR2
Rear	1.0	6	450	1S-CO	800	1400 x 850	2200 x 1400	2600 x 2900	5000	2700	6650	5750
		8	550		800	1400 x 1030	2200 x 1500	2600 x 3000	5350	3000	7300	6200
		9	600		800	1400 x 1100	2200 x 1600	2600 x 3100	5550	3100	7600	6400
		10	700		800	1400 x 1250	2200 x 1750	2600 x 3200	5900	3300	8200	6800
	1.5	11	750		800	1400 x 1350	2200 x 1850	2600 x 3350	6100	3400	8500	7000
		13	900		900	1600 x 1350	2400 x 1850	3000 x 3350	6800	3750	9550	7750
		15	1000		900	1600 x 1500	2400 x 2000	3000 x 3500	7100	3900	10100	8150
		17	1150		1000	1800 x 1500	2850 x 2000	3500 x 3500	8900	5300	12800	10500
	1.75	20	1350		1000	1800 x 1700	2850 x 2200	3500 x 3700	9000	6650	14100	11400
		24	1600		1100	2000 x 1750	3050 x 2250	3700 x 3750	9850	7050	15500	12300
Rear & 1Side	1.0	8	550	1S-CO	800	1400 x 1030	2300 x 1500	2600 x 3000	5400	3050	7500	6400
		9	600		800	1400 x 1100	2300 x 1600	2600 x 3100	5600	3120	7800	6600
		10	700		800	1400 x 1250	2300 x 1750	2600 x 3200	5950	3350	8400	7000
		11	750		800	1400 x 1350	2300 x 1850	2600 x 3350	6100	3450	8700	7200
	1.5	13	900		900	1600 x 1350	2500 x 1850	3000 x 3350	6850	3750	9750	7950
		15	1000		900	1600 x 1500	2500 x 2000	3000 x 3500	7150	3930	10350	8350
		17	1150		1000	1800 x 1500	2850 x 2000	3500 x 3500	9000	5400	13000	10700
		20	1350		1000	1800 x 1700	2850 x 2200	3500 x 3700	9100	6700	14250	11600
	1.75	24	1600		1100	2000 x 1750	3050 x 2250	3700 x 3750	9950	7100	15700	12500

▲ Notes : 1. Above dimensions are applied base on Standard Car size & Opening size For other applicable dimensions, please contact us.
2. In case to apply with additional weight like as marble finish on floor, Please contact us.
3. If apply the safety gear on Counterweight side, please consult with us.
4. The Hoistway dimensions width & depth are based on clear dimension ±20mm horizontal tolerances over the total hoist height.

Overhead & Pit Depth

CH: (External) Car Height

Code	Speed (m/s)	Duty Load (kg)	Overhead (OH)	Pit Depth (PP)	M/C Room Height (MH)	Code	Speed (m/s)	Duty Load (kg)	Overhead (OH)	Pit Depth (PP)	M/C Room Height (MH)
EN81-1	1.0	450 ~ 1600	CH+1900	1750	2200	EN81-20	1.0	450 ~ 1600	CH+2250	1750	2200
	1.5		CH+2100	1900	2400		1.5		CH+2400	1900	2400
	1.75		CH+2200	2000	2400		1.75		CH+2500	2000	2400

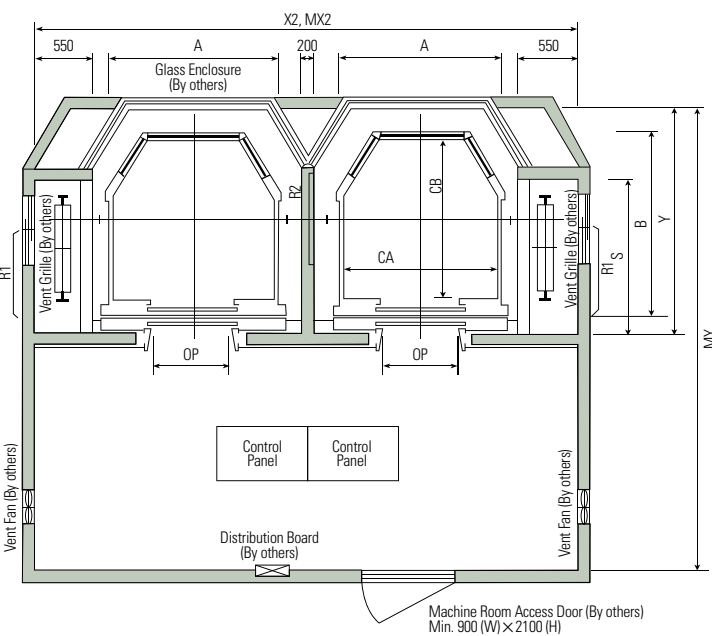
▲ Notes : 1. For OH: Base on the distance between the car top safety guard and shaft wall is less than 800mm Refer to EN81-20, The above OH complied the safety guard height with 1100mm.
2. If want to reduce the overhead, shall be proposed with semi-observation type. It means that without exterior panel and lighting.
3. M/C room height shall be increased 200mm in case of the traction machine with double isolation pad.
4. Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner(if necessary) and humidity below 90%.

LUXEN GEARLESS ELEVATORS

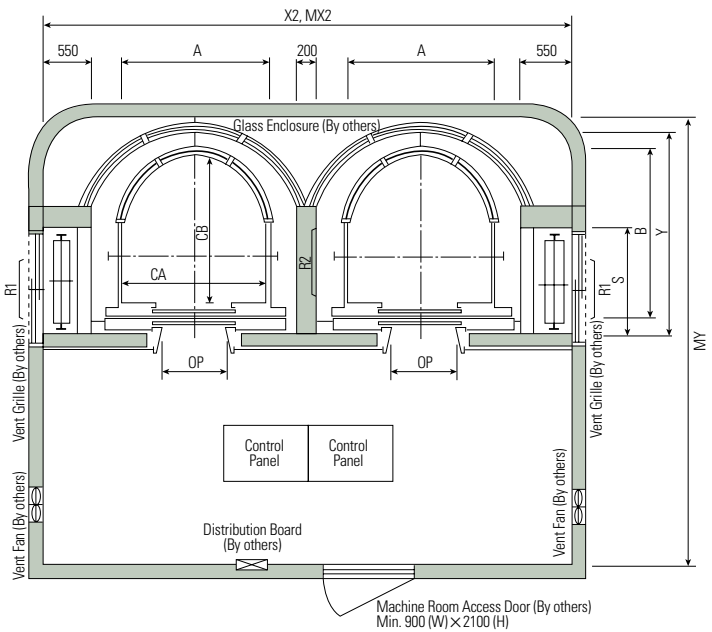
Observation Elevators | 3 SIDE TYPE, ROUND TYPE ELEVATORS

Plan of Hoistway & Machine Room

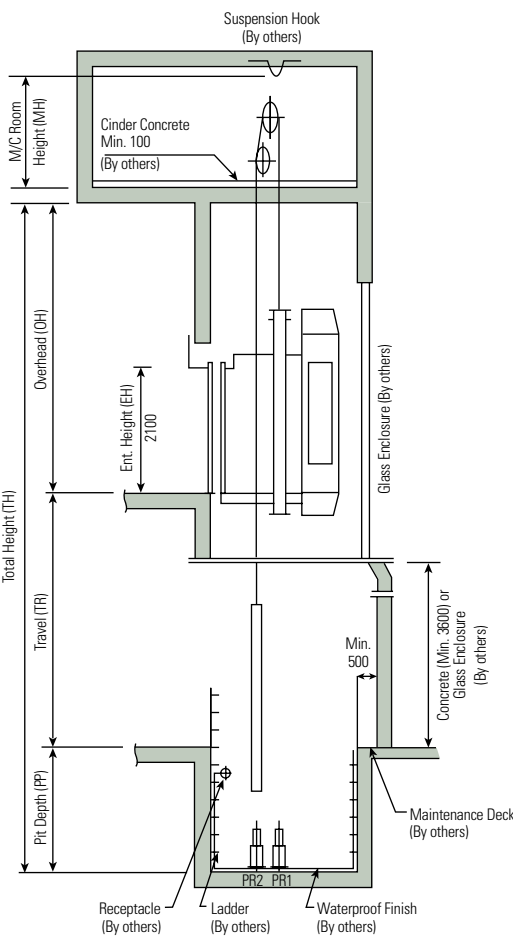
3 Side Type



Round Type



Section of Hoistway



Standard Dimensions & Reactions

(Unit : mm)

Type	Speed (m/sec)	Capacity		Opening Type	Opening Size (mm)	Car Size (mm)	Hoistway Size (mm)		Machine Room Size (mm)	M/C Room Reaction(kg)		Pit Reaction (kg)	
		Persons	kg				X1 x Y	S		R1	R2	PR1	PR2
3 Side	1.0 1.5 1.75	11	750	1S-CO	800	1400 x 1400	2450 x 2000	1200	2900 x 3500	6150	3450	8700	7150
		13	900		900	1600 x 1450	2650 x 2050	1350	3300 x 3550	6900	3750	9700	7900
		15	1000		900	1600 x 1570	2650 x 2200	1350	3300 x 3700	7200	3950	10300	8300
		17	1150		1000	1800 x 1580	2850 x 2200	1600	3500 x 3700	9000	5450	13150	10900
		20	1350		1000	1800 x 1800	2850 x 2400	1600	3500 x 3900	9150	6750	14550	11850
		24	1600		1100	1800 x 2000	2850 x 2600	1600	3500 x 4100	10000	7150	16100	12900
Round	1.0 1.5 1.75	11	750	1S-CO	800	1400 x 1480	2450 x 2000	1200	2900 x 3500	6180	3450	8700	7150
		13	900		900	1600 x 1500	2650 x 2050	1350	3300 x 3550	6930	3750	9700	7900
		15	1000		900	1600 x 1650	2650 x 2200	1350	3300 x 3700	7220	3950	10300	8300
		17	1150		1000	1800 x 1650	2850 x 2200	1600	3500 x 3700	9100	5450	13150	10900
		20	1350		1000	1800 x 1900	2850 x 2400	1600	3500 x 3900	9150	6750	14550	11850
		24	1600		1100	1800 x 2130	2850 x 2600	1600	3500 x 4100	10050	7200	16100	12900

Overhead & Pit Depth

CH: (External) Car Height

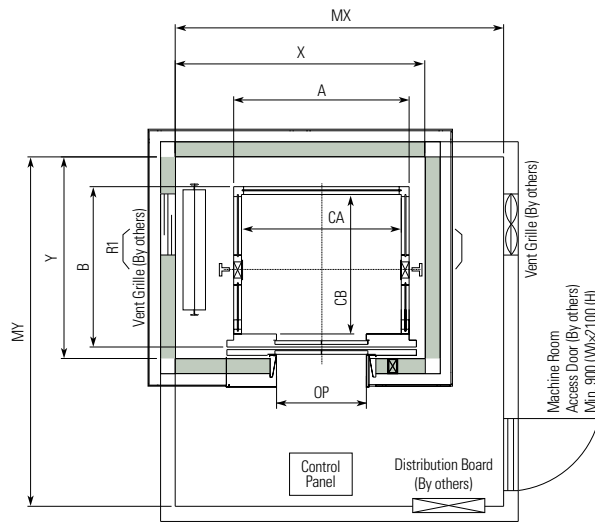
Code	Speed (m/s)	Duty Load (kg)	Overhead (OH)	Pit Depth (PP)	M/C Room Height (MH)	Code	Speed (m/s)	Duty Load (kg)	Overhead (OH)	Pit Depth (PP)	M/C Room Height (MH)
EN81-1	1.0	450 ~ 1600	CH+1900	2000	2200	EN81-20	1.0	450 ~ 1600	CH+2250	2000	2200
	1.5		CH+2100	2100	2400		1.5		CH+2400	2100	2400
	1.75		CH+2200	2200	2400		1.75		CH+2500	2200	2400

- ▲ Notes :
1. For OH: Base on the distance between the car top safety guard and shaft wall is less than 800mm Refer to EN81-20, The above OH complied the safety guard height with 1100mm.
 2. M/C room height shall be increased 200mm in case of the traction machine with double isolation pad.
 3. If the height of non-stop floor is over 11m, please consult Hyundai as to the needs for emergency exit.
 4. Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner(if necessary) and humidity below 90%.

LUXEN GEARLESS ELEVATORS

Observation Elevators | NUDE TYPE ELEVATORS

Plan of Hoistway & Machine Room



Overhead & Pit Depth

CH: (External) Car Height

Code	Speed (m/s)	Duty Load (kg)	Overhead (OH)	Pit Depth (PP)	M/C Room Height (MH)
EN81-1	1.0	450 ~ 1600	CH+1900	1450	2200
	1.5		CH+2100	1700	2400
	1.75		CH+2200	2000	2400
Code	Speed (m/s)	Duty Load (kg)	Overhead (OH)	Pit Depth (PP)	M/C Room Height (MH)
EN81-20	1.0	450 ~ 1600	CH+2250	1450	2200
	1.5		CH+2400	1700	2400
	1.75		CH+2500	2000	2400

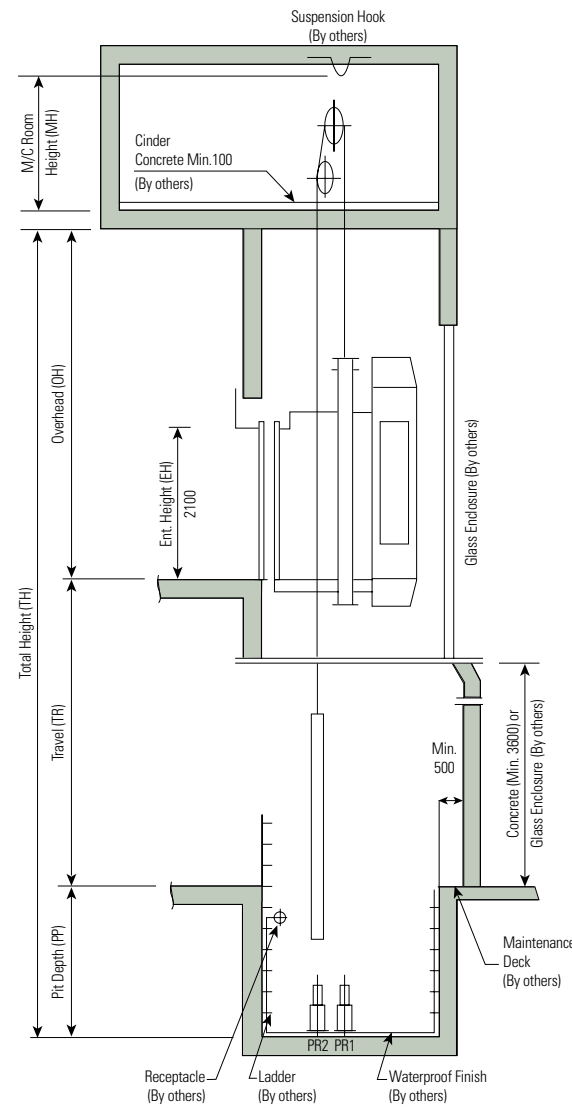
- ▲ Notes :
1. For OH: Base on the distance between the car top safety guard and shaft wall is less than 800mm. Refer to EN81-20, The above OH complied the safety guard height with 1100mm.
 2. M/C room height shall be increased 200mm in case of the traction machine with double isolation pad.
 3. If the height of non-stop floor is over 11m, please consult Hyundai as to the needs for emergency exit.
 4. Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner(if necessary) and humidity below 90%.

Standard Dimensions & Reactions

(Unit : mm)

Type	Speed (m/sec)	Capacity		Opening Type	Opening Size (mm)	Car Size (mm)	Hoistway Size (mm)	Machine Room Size (mm)	M/C Room Reaction(kg)		Pit Reaction (kg)	
		Persons	kg						R1	R2	PR1	PR2
Nude	1.0	8	550	1S-CO	800	1400×1030	2300×1500	2700×3000	5450	3050	7800	6700
		9	600		800	1400×1100	2300×1600	2700×3100	5650	3150	8200	7000
		10	700		800	1400×1250	2300×1750	2700×3200	6000	3400	8750	7350
		11	750		800	1400×1350	2300×1850	2700×3350	6200	3500	9300	7800
	1.5	13	900		900	1600×1300	2500×1850	3100×3360	6950	3800	10350	8550
		15	1000		900	1600×1400	2500×2000	3100×3500	7200	4000	11050	9050
		17	1150		1000	1800×1400	2750×2000	3600×3500	9100	5450	13650	11350
		20	1350		1000	1800×1600	2900×2200	3600×3700	9150	6750	15300	12600
	1.75	24	1600		1100	2000×1700	3100×2250	3800×3750	10050	7200	16800	13600

Section of Hoistway

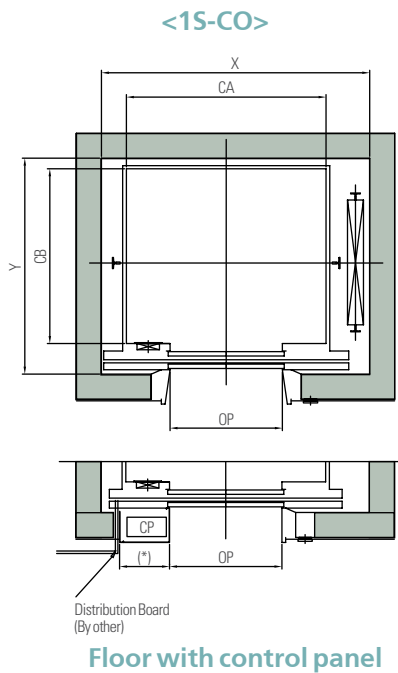


NEW YZER MRL(MACHINE-ROOM-LESS) ELEVATORS

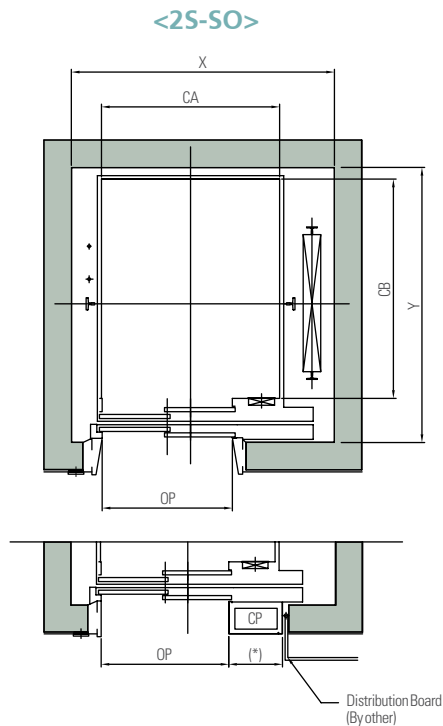
Passenger Elevators | 1.0~2.5m/sec

NEW YZER's hoistway, which exploits minimal space, is the product of extensive R&D by Hyundai Elevator's leading technical experts. Besides contributing to superior performance and riding comfort, it achieves a refined architectural design. The end result is the most efficient use of building space, lower construction costs, and easier maintenance.

Plan of Hoistway & Machine Room (450~1600kg)

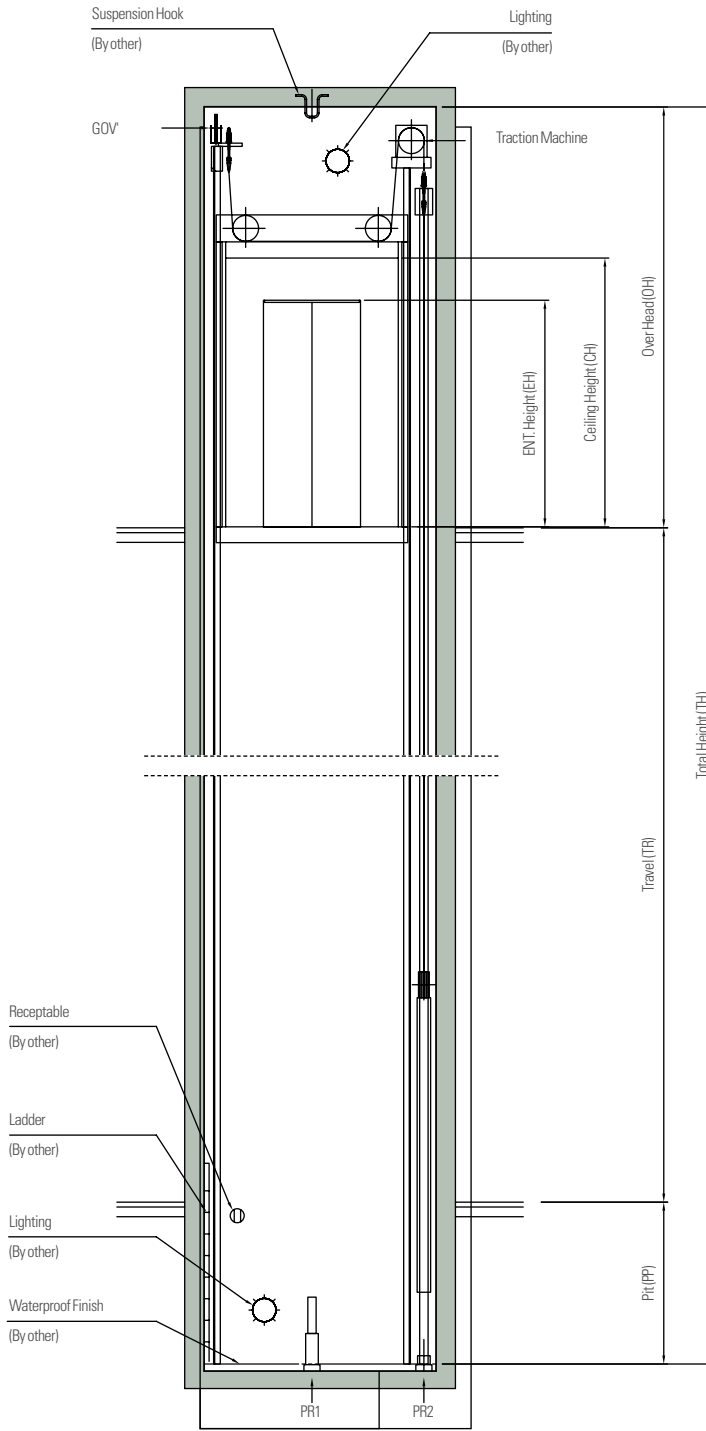


Floor with control panel



Floor with control panel

Section of Hoistway



- ▲ Notes :
1. The lighting of hoistway should be installed less than 500mm from above the ceiling of hoistway and within 500mm above the bottom of the pit.(By others)
 2. Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner(if necessary) and humidity below 90%

NEW YZER MRL(MACHINE-ROOM-LESS) ELEVATORS

Passenger Elevators | 1.0~2.5m/sec

Standard Dimensions & Reactions

Capacity		Speed (m/sec)	Opening Type	Door Width (mm)	Car Insize (mm)	Hoistway Insize (mm)	Control Panel Box (mm)	Overhead (mm)	Pit Depth (mm)	PIT Reaction (Kg)	
Ps	Kg			OP	CA × CB	X × Y ^{Note 2)}	CP	OH ^{Note 3), 4)}	PP ^{Note 4)}	PR1	PR2
6 (6)	450	1.0	1S-CO	700	1100 x 1100	1700 x 1500	430	CH+1700	1100 ^{Note 5)}	6300	5250
		1.5	2S-SO	800	1100 x 1100	1700 x 1500		CH+1800	1300		
		1.75						CH+1900	1400		
8 (7)	550 (525)	1.0	1S-CO	800	1100 x 1300	1800 x 1650		CH+1700	1100 ^{Note 5)}	6500	5400
		1.5	2S-SO	800	1100 x 1250	1700 x 1650		CH+1800	1300		
		1.75						CH+1900	1400		
9 (8)	600 (630)	1.0	1S-CO	800	1250 x 1240	1900 x 1600		CH+1700	1100 ^{Note 5)}	6800	5600
		1.5	2S-SO	900	1100 x 1400	1700 x 1800		CH+1800	1300		
		1.75						CH+1900	1400		
10 (9)	700 (675)	1.0	1S-CO	800	1200 x 1400	1850 x 1750	430	CH+1700	1100 ^{Note 5)}	7300	5900
		1.5	2S-SO	900	1200 x 1400	1800 x 1800	505	CH+1800	1300		
		1.75						CH+1900	1400		
11	750	1.0	1S-CO	800	1300 x 1400	1900 x 1750	430	CH+1700	1100 ^{Note 5)}	7600	6100
		1.5	2S-SO	900	1300 x 1400	1900 x 1800	505	CH+1800	1300		
		1.75						CH+1900	1400		
(10)	800	1.0	1S-CO	800	1350 x 1400	2050 x 1750	430	CH+1700	1100 ^{Note 5)}	8000	6300
		1.5	2S-SO	900	1350 x 1400	1950 x 1800	505	CH+1800	1300		
		1.75						CH+1900	1400		
13 (12)	900	1.0	1S-CO	900	1500 x 1400	2100 x 1750	430	CH+1700	1100 ^{Note 5)}	8400	6600
		1.5	2S-SO	900	1300 x 1600	1900 x 2000	505	CH+1800	1300		
		1.75						CH+1900	1400		
15 (13)	1000	1.0	1S-CO	900	1600 x 1400	2200 x 1750	430	CH+1700	1100 ^{Note 5)}	8900	6900
		1.5	2S-SO	900	1100 x 2100	1700 x 2500	505	CH+1800	1300		
		1.75						CH+1900	1400		
17 (15)	1150	1.0	1S-CO	1000	1800 x 1400	2400 x 1750	505	CH+1700	1100 ^{Note 5)}	11800	9500
		1.5	2S-SO	1000	1200 x 2100	1800 x 2550		CH+1800	1300		
		1.75						CH+1900	1400		
20 (18)	1350	1.0	1S-CO	1000	1800 x 1600	2500 x 2200	505	CH+1800	1300	13400	10700
		1.5	2S-SO	1100	1300 x 2300	2000 x 2750	In Hoistway	CH+2000	1350		
		1.75						CH+2100	1400		
24 (21)	1600	1.0	1S-CO	1100	2000 x 1700	2700 x 2250	505	CH+1800	1300	14200	11000
		1.5	2S-SO	1200	1400 x 2400	2150 x 2850	In Hoistway	CH+2000	1350		
		1.75						CH+2100	1400		
26 (24)	1750 (1800)	1.0	1S-CO	1200	2100 x 1800	2900 x 2450	In Hoistway	CH+2300	1500	20500	16900
		1.5	2S-SO	1300	1500 x 2400	2300 x 2850		CH+2400	1700		
		1.75						CH+2500	1800		
30 (26)	2000	1.0	1S-CO	1200	2100 x 1900	2900 x 2600	In Hoistway	CH+2300	1500	22800	18800
		1.5	2S-SO	1300	1600 x 2500	2400 x 2900		CH+2400	1700		
		1.75						CH+2500	1800		
38 (33)	2500	1.0	1S-CO	1200	2200 x 2200	3000 x 2900	In Hoistway	CH+2300	1850	26500	21500
		1.5	2S-SO	1400	1800 x 2700	2600 x 3150		CH+2400	2000		
		1.75						CH+2500	2000		

▲ Notes : 1. The table of dimensions as per Hyundai standard or EN81, For other country codes and spec requirements, Please contact us.
2. If apply the safety gear on Counterweight side, Hoistway Width(X) needed add 100mm
3. For OH: Base on designed refer to EN81-20, If not required EN81-1 & EN81-20 Code complied, can be reduced to 300~400mm
4. If apply the roller guide shoe, OH & Pit should be added 200mm per each
5. In case of 1.0 m/s with TR: Above 25m, Pit Depth should be increased 200mm to apply the compensation device
6. If apply through(180 degree) type, please consult with us.
7. The Hoistway dimensions width & depth are based on clear dimension ±20mm horizontal tolerances over the total hoistway height
8. (): Noted Rated Capacity and number of Person(Ps), as required by EN81

Standard Dimensions & Reactions

Capacity		Speed (m/sec)	Opening Type	Door Width (mm)	Car Insize (mm)	Hoistway Insize (mm)	Control Panel Box (mm)	Overhead (mm)	Pit Depth (mm)	PIT Reaction (Kg)	
Ps	Kg			OP	CA × CB	X × Y ^{Note 2)}	CP	OH ^{Note 3), 4)}	PP ^{Note 4)}	PR1	PR2
13 (12)	900	2.0	1S-CO	900	1500 x 1400	2200 x 1800	505	CH+2400	2050	8400	6600
			2S-SO		1300 x 1600	2000 x 2000					
		2.5	1S-CO		1500 x 1400	2200 x 1800	505	CH+2600	2200		
			2S-SO		1300 x 1600	2000 x 2000					
15 (13)	1000	2.0	1S-CO	900	1600 x 1400	2300 x 1800	505	CH+2400	2050	8900	6900
			2S-SO		1100 x 2100	1800 x 2550					
		2.5	1S-CO		1600 x 1400	2300 x 2050	In Hoistway	CH+2600	2200		
			2S-SO		1100 x 2100	1800 x 2600					
17 (15)	1150	2.0	1S-CO	1000	1800 x 1400	2500 x 1800	505	CH+2400	2050	11800	9500
			2S-SO		1200 x 2100	1900 x 2550					
		2.5	1S-CO		1800 x 1400	2500 x 2050	In Hoistway	CH+2600	2200		
			2S-SO		1200 x 2100	1900 x 2600					
20 (18)	1350	2.0	1S-CO	1000	1800 x 1600	2600 x 2250	In Hoistway	CH+2700	2050	13400	10700
			2S-SO	1100	1300 x 2300	2100 x 2750					
		2.5	1S-CO	1000	1800 x 1600	2600 x 2250		CH+2800	2200		
			2S-SO	1100	1300 x 2300	2100 x 2750					
24 (21)	1600	2.0	1S-CO	1100	2000 x 1700	2800 x 2400	In Hoistway	CH+2700	2050	14200	11000
			2S-SO	1200	1400 x 2400	2200 x 2850					
		2.5	1S-CO	1100	2000 x 1700	2800 x 2400		CH+2800	2200		
			2S-SO	1200	1400 x 2400	2200 x 2850					
26 (24)	1750 (1800)	2.0	1S-CO	1200	2100 x 1800	2900 x 2450	In Hoistway	CH+2700	2100	20500	16900
			2S-SO	1300	1500 x 2400	2300 x 2850					
		2.5	1S-CO	1200	2100 x 1800	2900 x 2450		CH+2800	2300		
			2S-SO	1300	1500 x 2400	2300 x 2850					
30 (26)	2000	2.0	1S-CO	1200	2100 x 1900	2900 x 2600	In Hoistway	CH+2700	2100	22800	18800
			2S-SO	1300	1600 x 2500	2400 x 3000					
		2.5	1S-CO	1200	2100 x 1900	2900 x 2600		CH+2800	2300		
			2S-SO	1300	1600 x 2500	2400 x 3000					
38 (33)	2500	2.0	1S-CO	1200	2200 x 2200	3000 x 2900	In Hoistway	CH+2700	2100	26500	21500
			2S-SO	1400	1800 x 2700	2600 x 3200					
		2.5	1S-CO	1200	2200 x 2200	3000 x 2900		CH+2800	2300		
			2S-SO	1400	1800 x 2700	2600 x 3200					

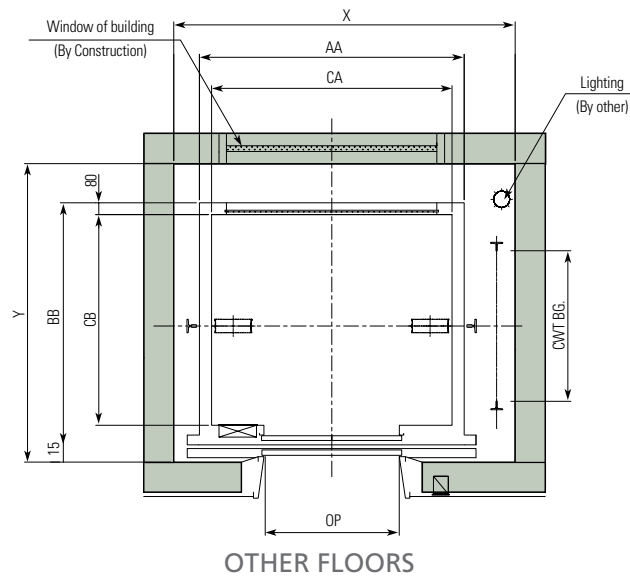
▲ Notes : 1. The table of dimensions as per Hyundai standard or EN81, For other country codes and spec requirements, Please contact us.
2. If apply the safety gear on Counterweight side, Hoistway Width(X) needed add 100mm
3. For OH: Base on designed refer to EN81-20, If not required EN81-1 & EN81-20 Code complied, can be reduced to 300mm
4. If apply the roller guide shoe, OH & Pit should be added 200mm per each
5. If apply through(180 degree) type, please consult with us.
6. The Hoistway dimensions width & depth are based on clear dimension ±20mm horizontal tolerances over the total hoistway height
7. (): Noted Rated Capacity and number of Person(Ps), as required by EN81

NEW YZER MRL(MACHINE-ROOM-LESS) ELEVATORS

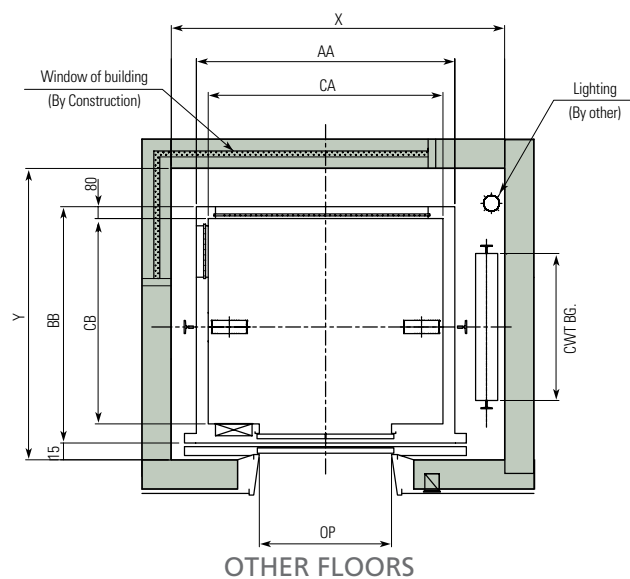
Observation Elevators | 1 SIDE TYPE, 2 SIDE TYPE ELEVATORS

Plan of Hoistway & Machine Room

1 Side Type

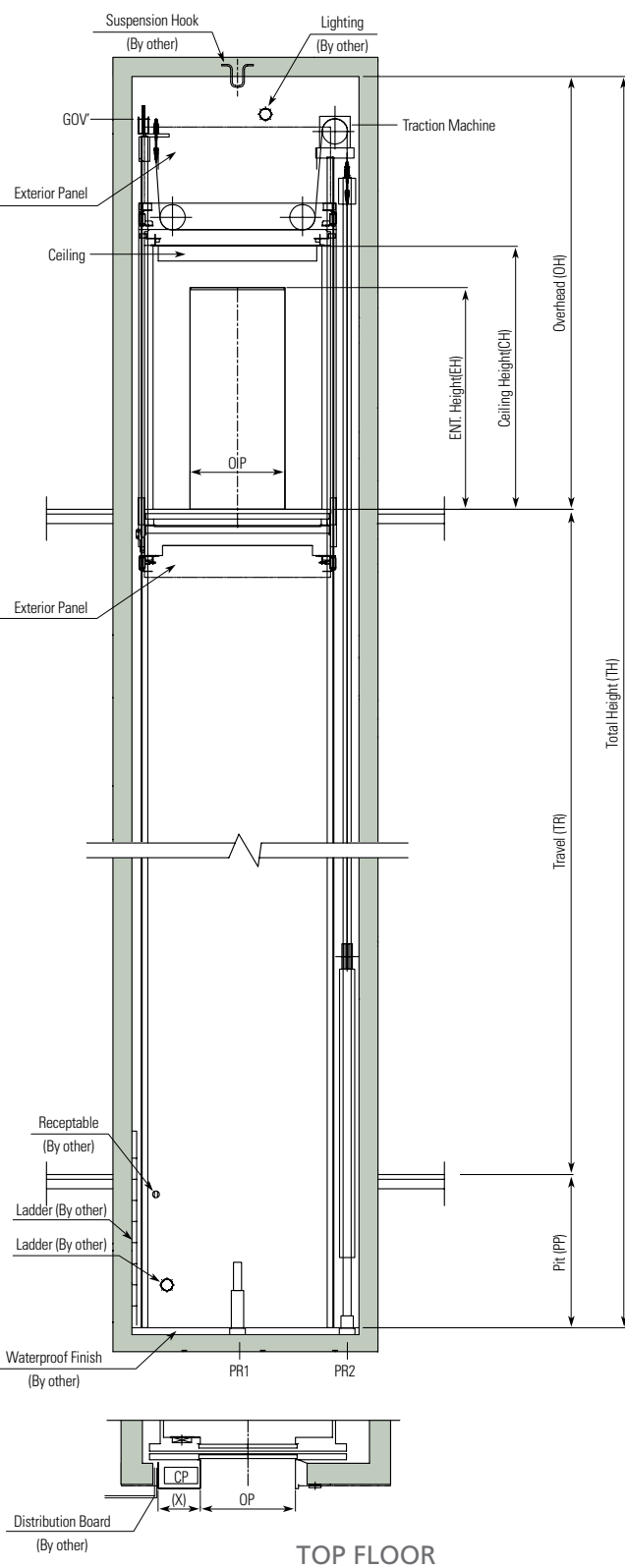


2 Side Type



- ▲ Notes : 1. The Lighting of hoistway should be installed less than 500mm from above the ceiling of hoistway and within 500mm above the Bottom of the Pit (By Others)
2. The arrangement & size of Control Panel, shall be refer to the dimension table

Section of Hoistway



TOP FLOOR

Standard Dimensions & Reactions

(Unit : mm)

Type	Speed (m/sec)	Capacity		Opening Type	Opening Size (mm)	Car Size (mm)	Hoistway Size (mm)	Control Panel Box(mm)	M/C Room Reaction (kg)		Pit Reaction (kg)	
		Persons	kg		OP	CA × CB	X1 × Y	CP	R1	R2	PR1	PR2
Rear	1.0 1.5 1.75	8	550	1S-CO	800	1300×1100	2000×1650	430	-	-	7500	6400
		9	600		800	1300×1160	2000×1700		-	-	7800	6600
		10	700		800	1300×1300	2000×1850	430 (1.0 mps) 505 (1.5~1.75mps)	-	-	8400	7000
		11	750		800	1300×1400	2000×1900		-	-	8700	7200
		13	900		900	1600×1300	2200×1850		-	-	9750	7950
		15	1000		900	1600×1400	2200×1900	-	-	10300	8350	
		17	1150		1000	1800×1400	2450×2000	505	-	-	13000	10700
		20 ^{Note 2)}	1350		1000	1800×1600	2500×2200	505 (1.0mps) In Hoistway	-	-	14300	11600
		24 ^{Note 2)}	1600		1100	2000×1700	2700×2250	505 (1.5~1.75mps)	-	-	15700	12500

- ▲ Notes : 1. Above dimensions are applied base on Standard Car size & Opening size For other applicable dimensions, please contact us.
2. In case to apply with additional weight like as marble finish on floor, Please contact us.
3. If apply the safety gear on Counterweight side, please consult with us.
4. The Hoistway dimensions width & depth are based on clear dimension ±20mm horizontal tolerances over the total hoist height.

Type	Speed (m/sec)	Capacity		Opening Type	Opening Size (mm)	Car Size (mm)	Hoistway Size (mm)	Control Panel Box(mm)	M/C Room Reaction (kg)		Pit Reaction (kg)	
		Persons	kg						OP	CA × CB	X1 × Y	CP
Rear & 1 Side	1.0 1.5 1.75	8	550	1S-CO	800	1300×1100	2100×1750	430	-	-	7700	6600
		9	600		800	1300×1160	2100×1800		-	-	8000	6800
		10	700		800	1300×1300	2100×1850	430 (1.0 mps)	-	-	8600	7200
		11	750		800	1300×1400	2100×1900		-	-	8900	7400
		13	900		900	1600×1300	2400×1900	505 (1.5~1.75mps)	-	-	9950	8150
		15	1000		900	1600×1400	2400×2000		-	-	10550	8550
		17	1150		1000	1800×1400	2700×2150	505	-	-	13200	10900
		20 ^{Note 2)}	1350		1000	1800×1600	2750×2350	505 (1.0mps) In Hoistway	-	-	14450	11800
		24 ^{Note 2)}	1600		1100	2000×1700	2950×2400	505 (1.5~1.75mps)	-	-	15900	12700

- ▲ Notes : 1. Above dimensions are applied base on Standard Car size & Opening size For other applicable dimensions, please contact us.
2. In case to apply with additional weight like as marble finish on floor, Please contact us.
3. If apply the safety gear on Counterweight side, please consult with us.
4. The Hoistway dimensions width & depth are based on clear dimension ±20mm horizontal tolerances over the total hoist height.
5. It has limited to applicable a view type. The SQ-119Z type only can be used which doesn't be applied exterior panel included lighting.

Overhead & Pit Depth

CH: (External) Car Height

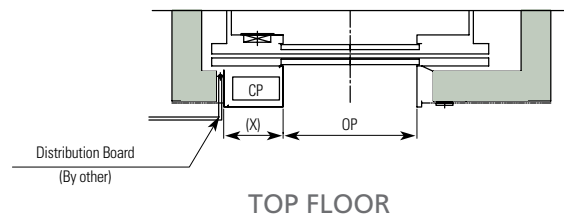
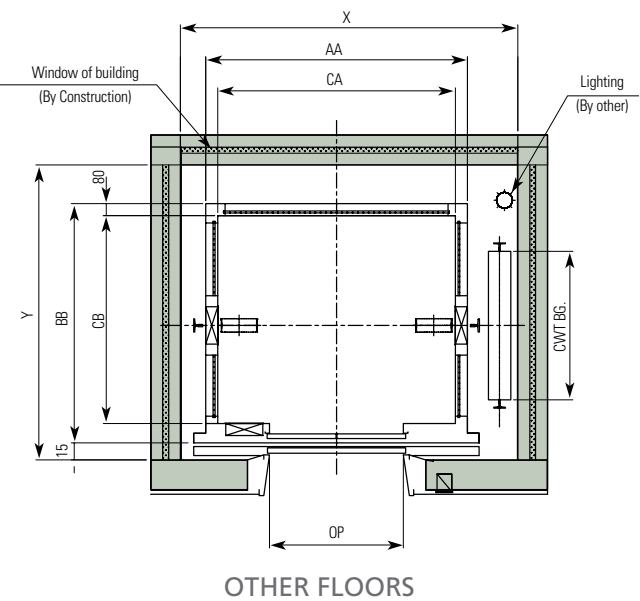
Code	Speed (m/s)	Duty Load (kg)	Overhead (OH)	Pit Depth (PP)	Code	Speed (m/s)	Duty Load (kg)	Overhead (OH)	Pit Depth (PP)
EN81-1	1.0	450 ~ 1600	CH+2000	1750	EN81-20	1.0	450 ~ 1600	CH+2300	1750
	1.5		CH+2100	1900		1.5		CH+2400	1900
	1.75		CH+2200	2000		1.75		CH+2500	2000

- ▲ Notes : 1. For OH: Base on the distance between the car top safety guard and shaft wall is less than 800mm Refer to EN81-20, The above OH complied the safety guard height with 1100mm.
2. If want to reduce the overhead, shall be proposed with semi-observation type. It means that without exterior panel and lighting.

NEW YZER MRL(MACHINE-ROOM-LESS) ELEVATORS

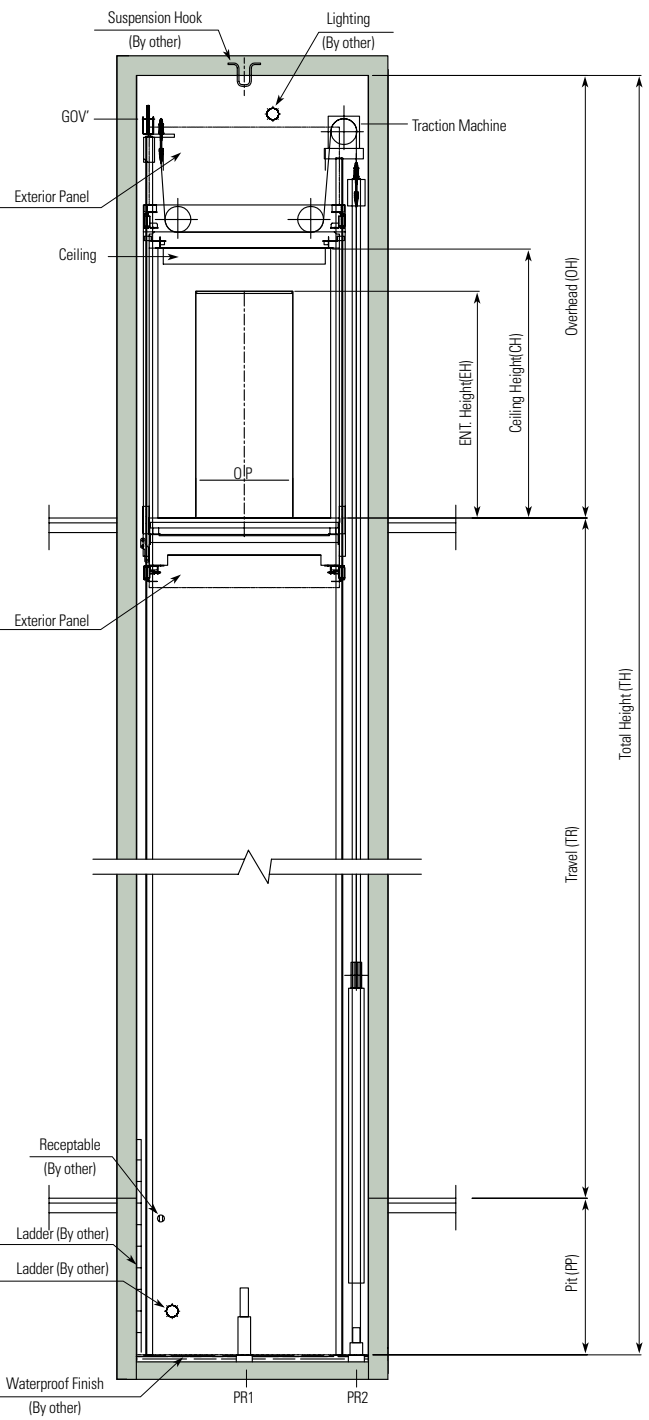
Observation Elevators | NUDE TYPE ELEVATORS

Plan of Hoistway & Machine Room



- ▲ Notes : 1. The Lighting of hoistway should be installed less than 500mm from above the ceiling of hoistway and within 500mm above the Bottom of the Pit (By Others)
2. The arrangement & size of Control Panel, shall be refer to the dimension table

Section of Hoistway



Standard Dimensions & Reactions

(Unit : mm)

Type	Speed (m/sec)	Capacity		Opening Type	Opening Size (mm)	Car Size (mm)	Hoistway Size (mm)	Control Panel Box (mm)	M/C Room Reaction (kg)		Pit Reaction (kg)	
		Persons	kg						R1	R2	PR1	PR2
Nude	1.0	8	550	2P-CO	800	1300×1100	2150×1750	430	-	-	8150	7050
		9	600		800	1300×1160	2150×1800	-	-	-	8500	7300
		10	700		800	1300×1300	2150×1850	-	-	-	9050	7650
	1.5	11	750		800	1300×1400	2150×1900	430 (1.0 mps)	-	-	9450	7950
	1.75	13	900		900	1500×1400	2350×1900	505 (1.5~1.75mps)	-	-	10500	8700
		15	1000		900	1600×1400	2450×2000	-	-	-	11150	9150
		17	1150		1000	1800×1400	2700×2150	505	-	-	13750	11450

- ▲ Notes : 1. Above dimensions are applied base on Standard Car size & Opening size For other applicable dimensions, please contact us.
2. If apply the safety gear on Counterweight side, please consult with us.
3. The Hoistway dimensions width & depth are based on clear dimension ±20mm horizontal tolerances over the total hoist height.

Overhead & Pit Depth

CH: (External) Car Height

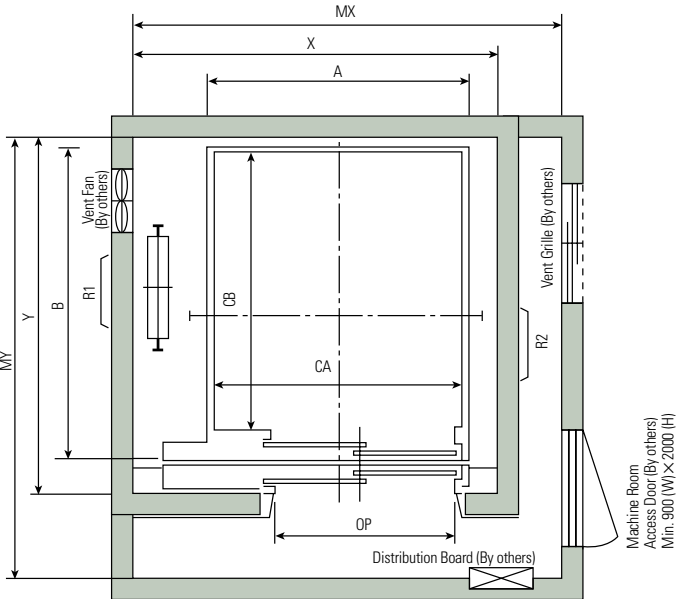
Code	Speed (m/s)	Duty Load (kg)	Overhead (OH)	Pit Depth (PP)	Code	Speed (m/s)	Duty Load (kg)	Overhead (OH)	Pit Depth (PP)
EN81-1	1.0	450 ~ 1150	CH+2000	1400	EN81-20	1.0	450 ~ 1150	CH+2300	1400
	1.5		CH+2100	1500		1.5		CH+2400	1500
	1.75		CH+2200	1700		1.75		CH+2500	1700

- ▲ Notes : 1. For OH: Base on the distance between the car top safety guard and shaft wall is less than 800mm Refer to EN81-20, The above OH complied the safety guard height with 1100mm.
2. If the height of non-stop floor is over 11m, please consult Hyundai as to the needs for emergency exit.

FREIGHT ELEVATORS

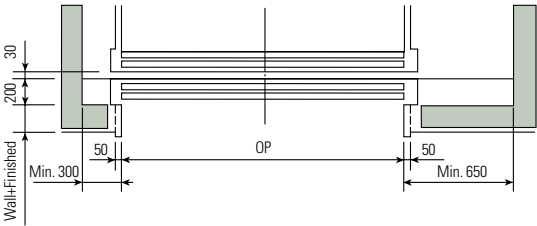
General Type (2S, 2U, 3U)

Plan of Hoistway & Machine Room



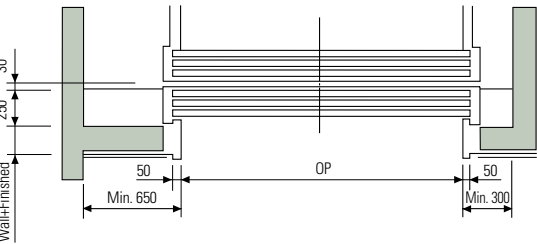
2-PANEL SIDE-OPENING DOORS (2S)

▲ Notes : Temperatures should be maintained below 40°C with ventilating fan and/or air conditioner (if necessary) and humidity below 90%.



2-PANEL UP-SLIDING DOORS (2U)

- Minimum floor height : Opening height × 3 / 2 + 700mm
- Minimum entrance height : 2100mm

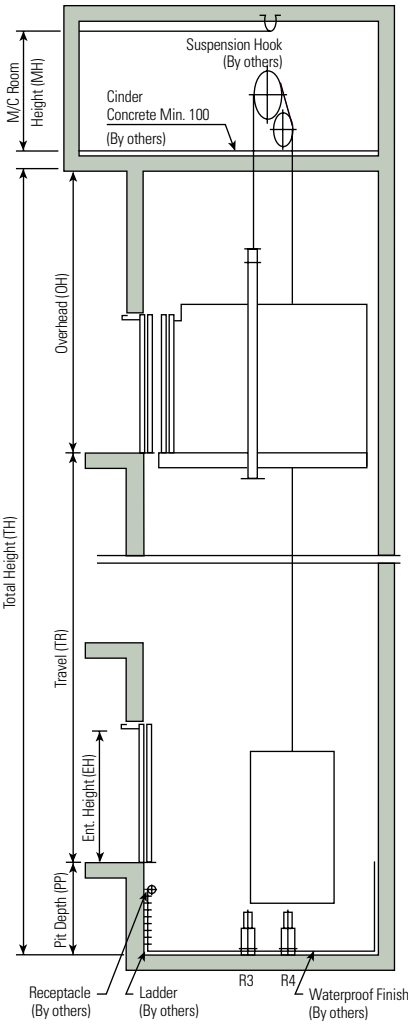


3-PANEL UP-SLIDING DOORS (3U)

- Minimum floor height : Opening height × 4 / 3 + 750mm
- Minimum entrance height : 2100mm

▲ Notes : Consult Hyundai if the dimensions are less than the minimum.

Section of Hoistway



Standard Dimensions & Reactions

(Unit : mm)

Model	Speed (m/sec)	Entrance		Car		Hoistway		M/C Room (MX×MY)	M/C Room Reaction (kg)		Buffer Reaction (kg)	
		Door Opening Type	Width×Height (OP×EH)	Entrance Type	Internal CA × CB	External A × B	X × Y Overhead (OH)		R1	R2	R3	R4
F0750-2S	0.5 0.75 1.0	2S	1100×2100	Standard	1700×1650	1800×1857	2500×2150 4800	2800×3200	6200	4100	5000	4300
				Double Entrance		1800×1989						
F1000-2S	0.5 0.75 1.0	2S	1400×2100	Standard	1850×1850	1950×2078	2750×2400 4800	3200×3500	8500	5700	7100	6100
				Double Entrance		1950×2226						
F1500-2S	0.5 0.75 1.0	2S	1700×2100	Standard	2100×2500	2200×2728	3000×3050 4800	3600×4000	10800	7100	9000	7500
				Double Entrance		2200×2876						
F2000-2S	0.5 0.75 1.0	2S	1700×2100	Standard	2300×2700	2400×2928	3300×3250 4800	3800×4200	13300	8800	11400	9400
				Double Entrance		2400×3076						
F2000-2U	0.5 0.75 1.0	2U	2300×2100	Standard	2300×2700	2400×2898	3300×3250 4600	3800×4200	13300	8800	11400	9400
				Double Entrance		2400×3016						
F2500-2S	0.5 0.75 (1.0)	2S	1800×2100	Standard	2500×3000	2600×3228	3500×3600 4800	4000×4400	15100	10000	13200	10700
				Double Entrance		2600×3376						
F2500-2U	0.5 0.75 (1.0)	2U	2500×2100	Standard	2500×3000	2600×3198	3500×3600 4600	4000×4400	15100	10000	13200	10700
				Double Entrance		2600×3316						
F3000-2U	0.5 0.75	2U	2700×2300	Standard	2700×3300	2800×3498	3700×3900 4800	4200×4800	15200	10100	13500	10500
				Double Entrance		2800×3616						
F3500-2U	0.5 0.75	2U	2800×2500	Standard	2800×3800	3020×3998	4050×4400 5000	4300×5200	21700	14500	19000	15500
				Double Entrance		3020×4116						
F4000-3U	0.4 0.5	3U	3000×2800	Standard	3000×4500	3220×4758	4250×5250 5300	4500×5900	32500	21700	28700	23700
				Double Entrance		3220×4936						
F5000-3U	0.4 0.5	3U	3200×3000	Standard	3200×5000	3420×5258	4450×5750 5500	4700×6400	36000	23000	31700	26700
				Double Entrance		3420×5436						

▲ Notes : 1. Please consult Hyundai when the loading capacity is over 5000kg or the car is non-standard size.
2. The loading capacity should be over 250kg/m² minimally.
3. The actual reaction may slightly differ from above dimensions in line with machine beam position.

Pit Depth & M/C Room Height

(Unit : mm)

Speed (m/sec)	Pit (PP)	CAPA(kg)	M/C Room Height
0.5	1600	≤5000	2600
0.75/1.0	1600	≤2500	2600
	1650	≤3000	
	1750	≤5000	

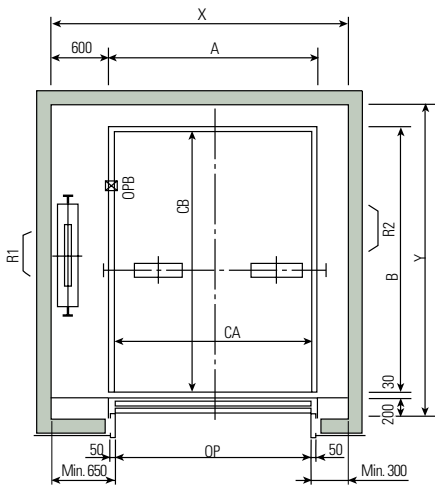
AUTOMOBILE ELEVATORS

General Type (2U, 3U)

ENTRANCE LAYOUTS

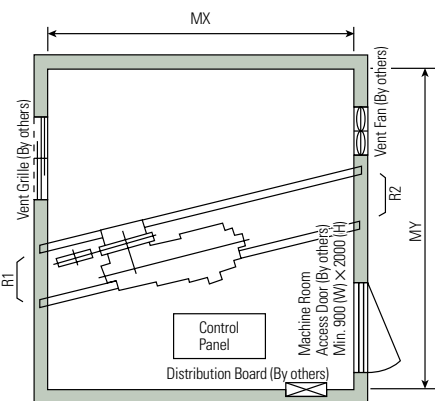
General Type (JP050, JP100, JP200)

Plan of Hoistway & Machine Room



2-PANEL UP-SLIDING DOORS (2U)

- Minimum floor height : Opening height $\times 3 / 2 + 700\text{mm}$
- Minimum entrance height : 1800mm



- ▲ Notes :
1. Temperatures should be maintained below 40°C with ventilating fan and/or air conditioner (if necessary) and humidity below 90%.
 2. The specification of car doors are optional.

Overhead & Pit Depth

(Unit : mm)

Speed (m/sec)	Overhead (OH)	Pit (PP)	M/C Room Height (MH)
0.5 / 0.75	4400	1500	2400

- ▲ Notes : The above are minimum size.

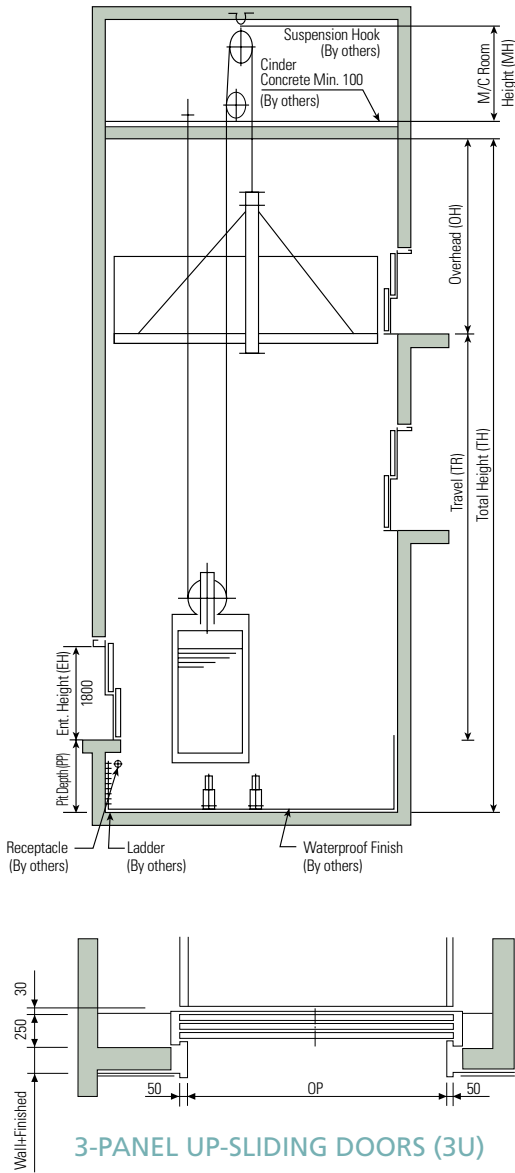
Standard Dimensions & Reactions

(Unit : mm)

Type	Model	Speed (m/sec)	Clear Opening OP	Car		Hoistway X×Y	M/C Room MX×MY	Hitch Beam Reaction (kg)	
				Internal CA×CB	External A×B			R1	R2
Standard Type	A2000-2U	0.5	2350	2350×5300	2450×5508	3300×6000	3300×6000	17500	12000
	A2500-2U		2500	2500×6300	2600×6508	3450×7000	3450×7000	22500	12500
	A2000-3U		2350	2350×5300	2450×5568	3300×6050	3300×6050	17500	12000
	A2500-3U		2500	2500×6300	2600×6568	3450×7050	3450×7050	22500	12500
Double Entrance Type	A2000-2U	0.75	2350	2350×5300	2450×5616	3300×6100	3300×6100	17500	12000
	A2500-2U		2500	2500×6300	2600×6616	3450×7100	3450×7100	22500	12500
	A2000-3U		2350	2350×5300	2450×5736	3450×6350	3300×6350	17500	12000
	A2500-3U		2500	2500×6300	2600×6736	3450×7350	3450×7350	22500	12500

- ▲ Notes : 1. The car external size can be varied in line with entrance type.

Section of Hoistway

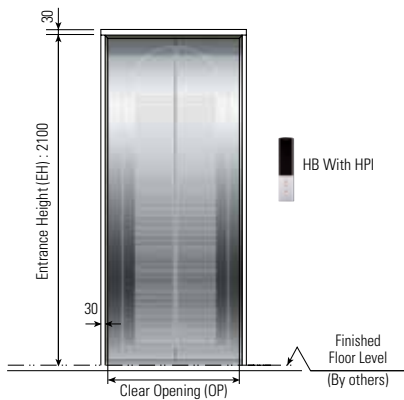


3-PANEL UP-SLIDING DOORS (3U)

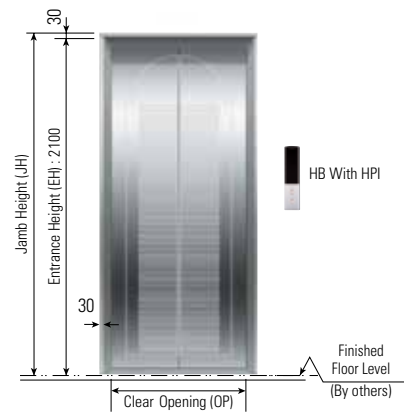
- Minimum floor height : Opening height $\times 4 / 3 + 750\text{mm}$
- Minimum entrance height : 1800mm

- ▲ Notes : Consult Hyundai if the dimensions are less than the minimum.

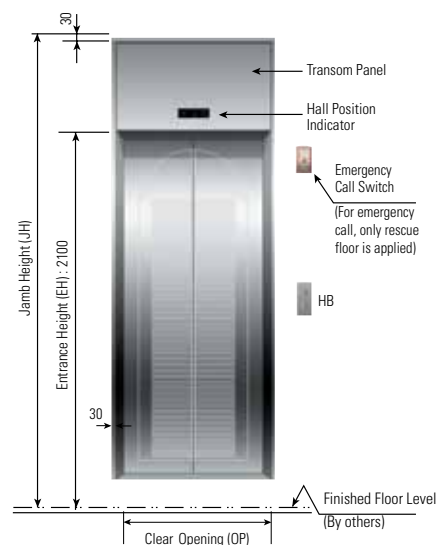
Entrance



JP050 Type (Standard)

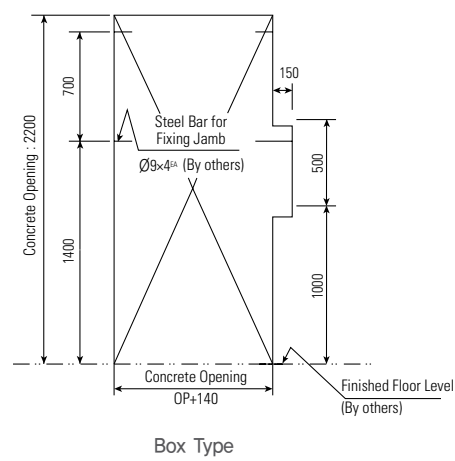


JP100 Type (Optional)

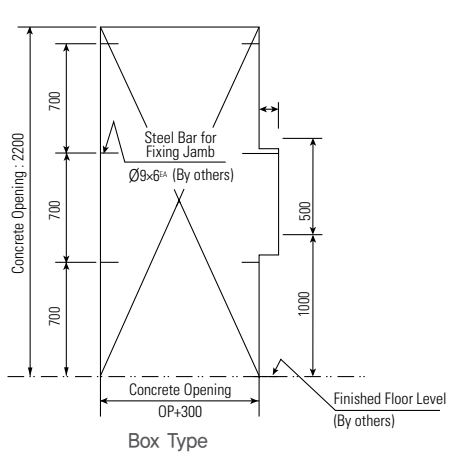


JP200 Type (Optional)

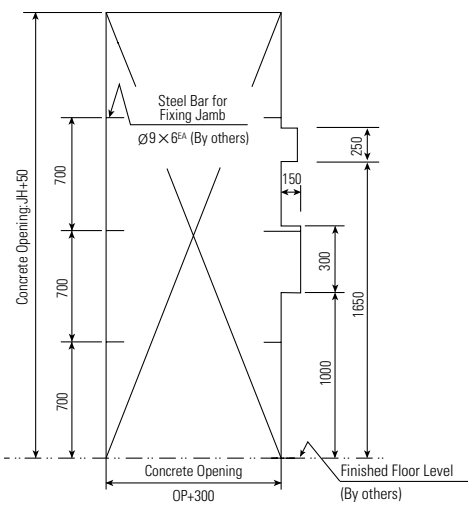
Structural Opening of Entrance



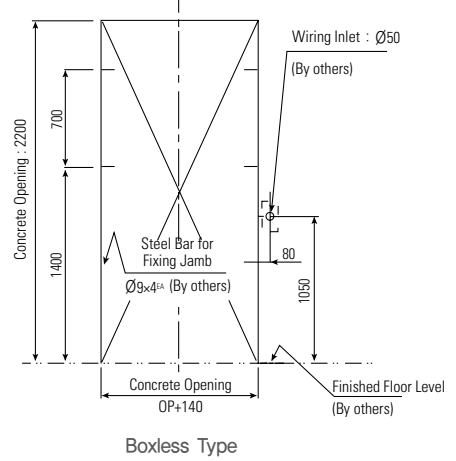
Box Type



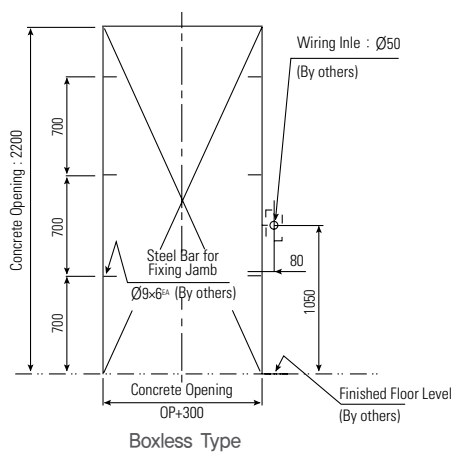
Box Type



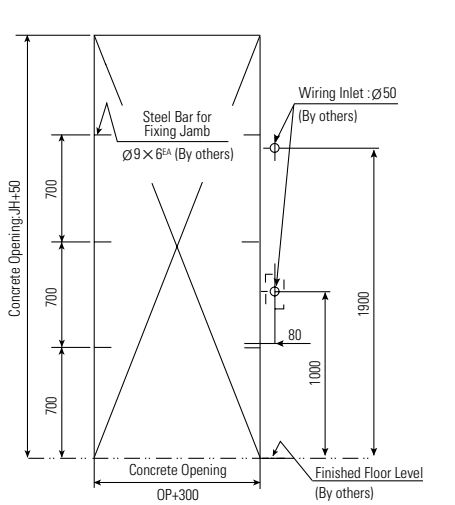
Box Type



Boxless Type



Boxless Type

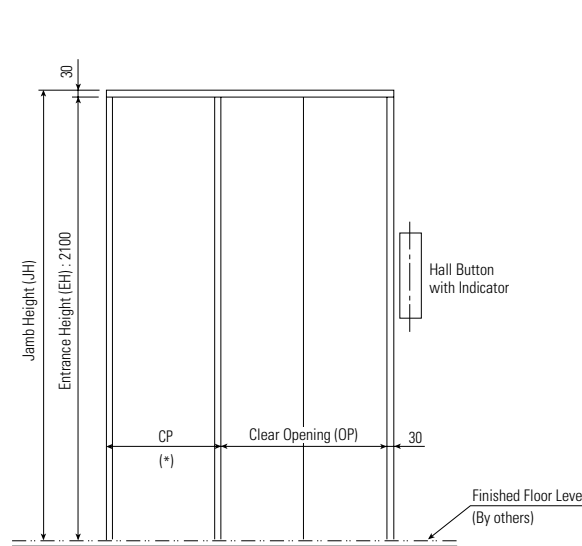


Boxless Type

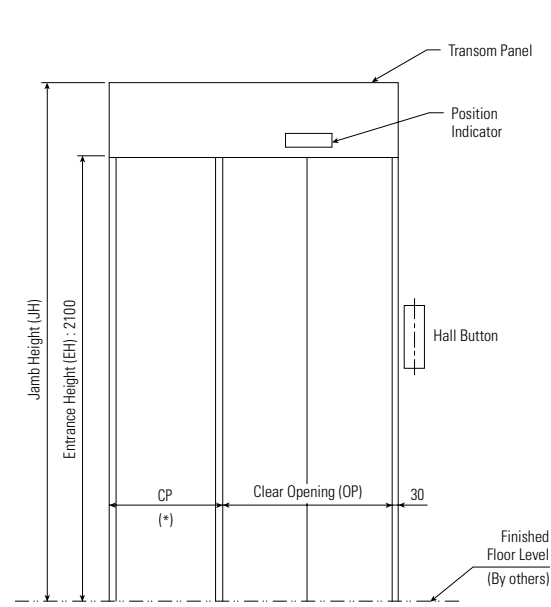
ENTRANCE LAYOUTS

Only for Top Floor of the Machine-Room-Less Elevators (CP110, CP210)

Entrance Design



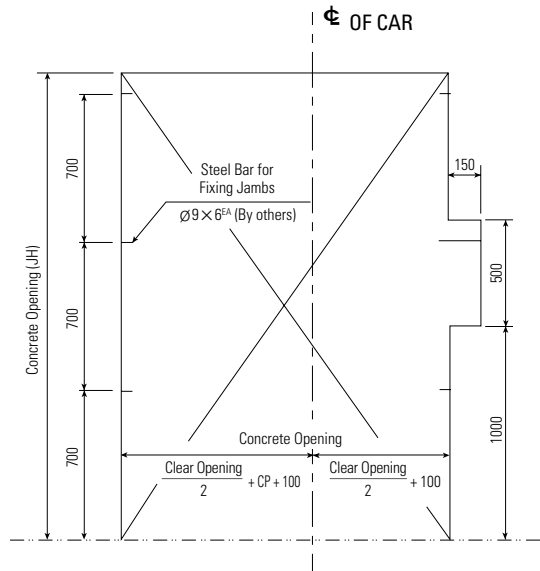
CP110 Type (Standard)



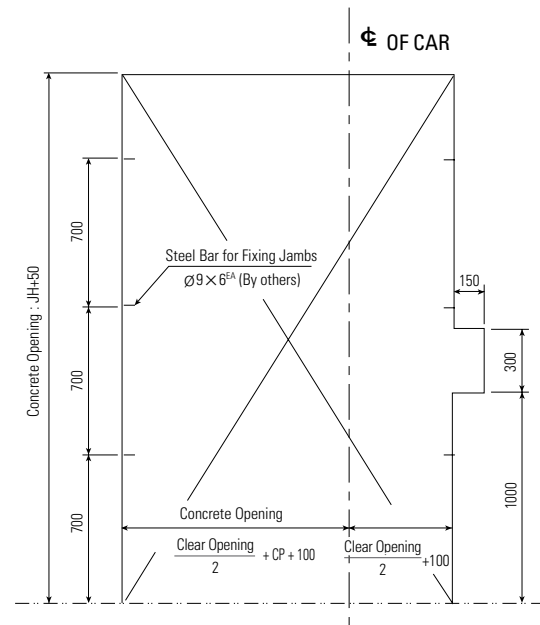
CP210 Type (Optional)

▲ Notes : 1.The CP Hole size shall be followed the table of MRL(Page14,15)

Structural Opening of Entrance



CP110 Type (Standard)

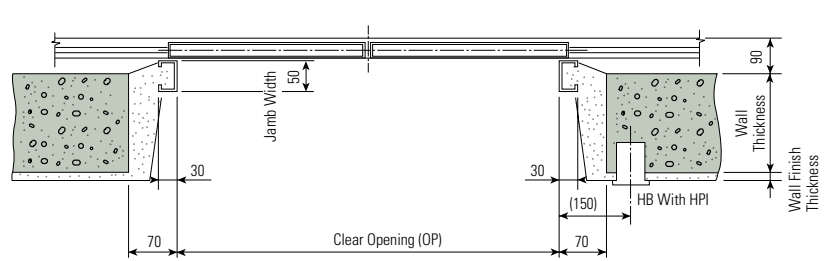


CP210 Type (Optional)

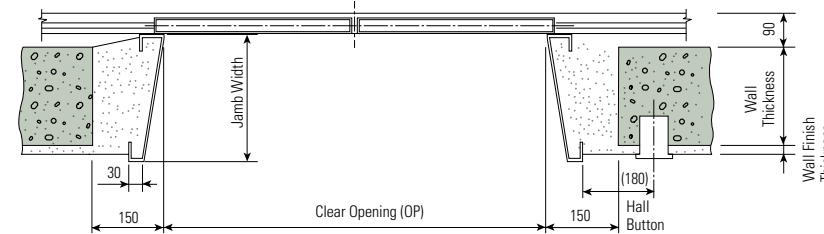
ENTRANCE LAYOUTS

2-Panel Center-Opening Doors (1S-C0)

Plan of Entrance

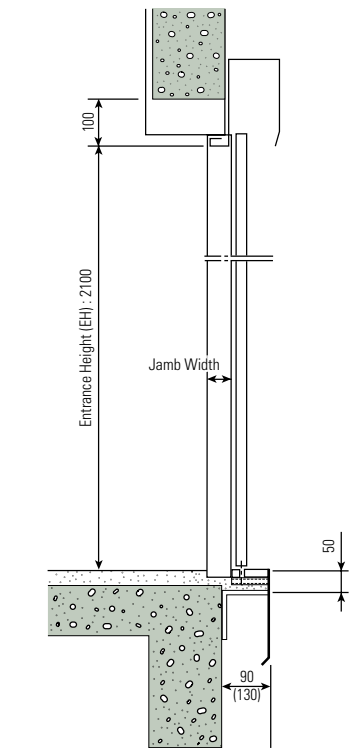


JP050 Type

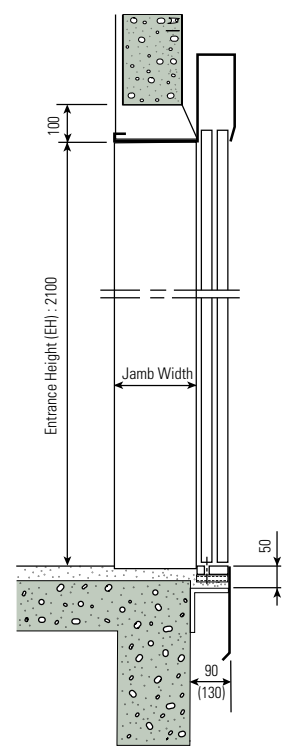


JP100, JP200 Type

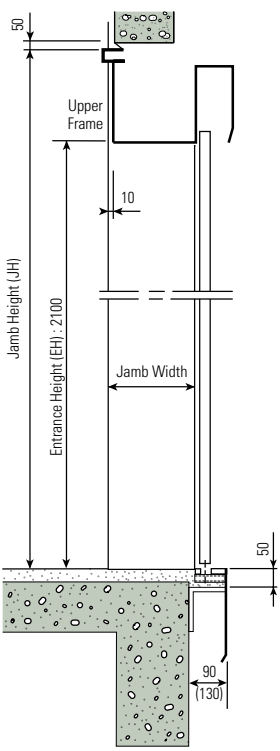
Section Entrance



JP050 Type



JP100 Type



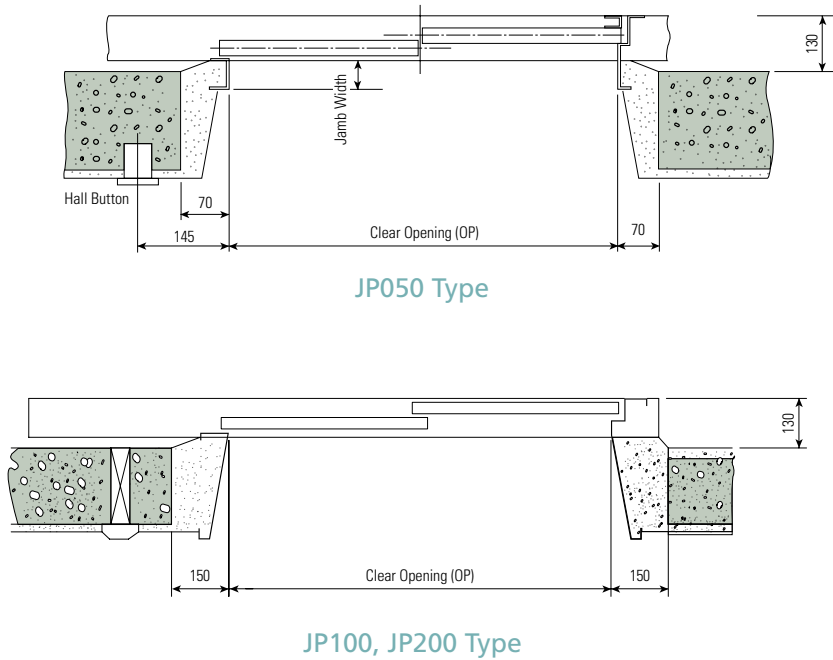
JP200 Type

▲ Notes : The dimension in () is applied for 5m/sec and over.

ENTRANCE LAYOUTS

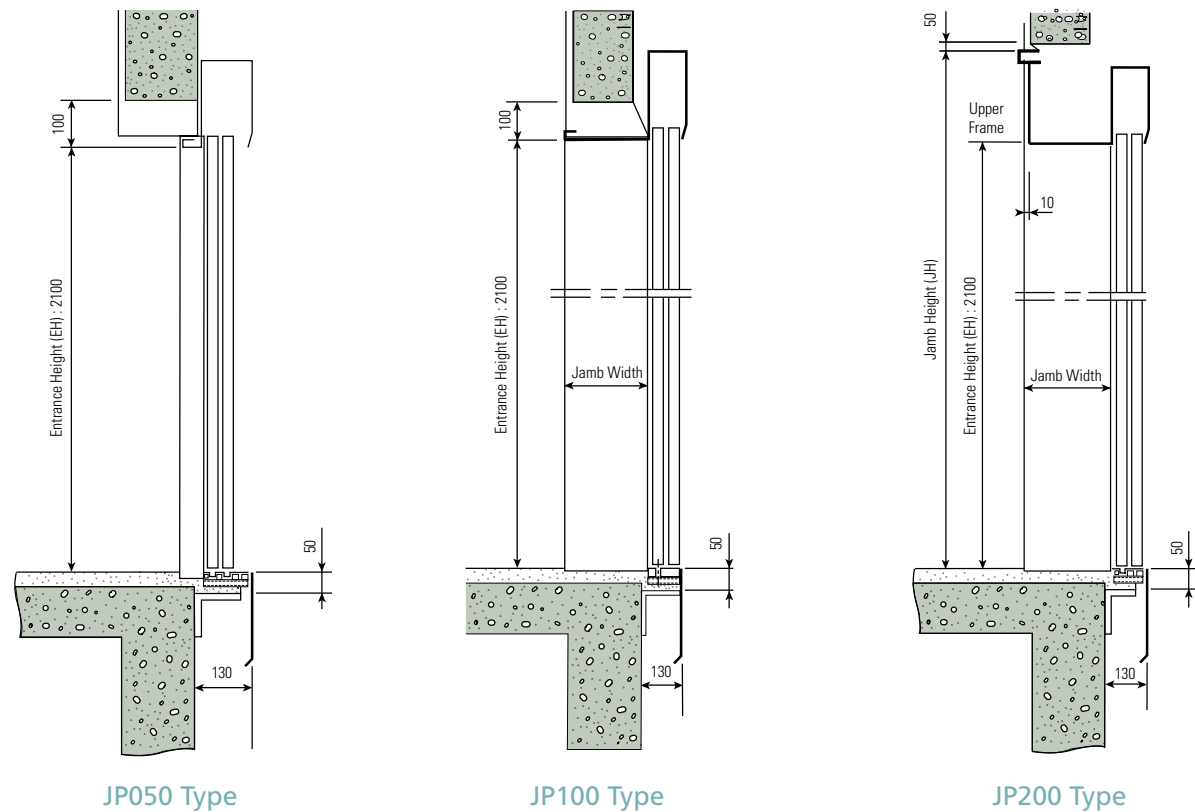
2-Panel Side-Opening Doors (2S-SO)

Plan of Entrance



▲ Notes : The above layout is for left side opening. Right side opening doors are available, if requested.

Section of Entrance

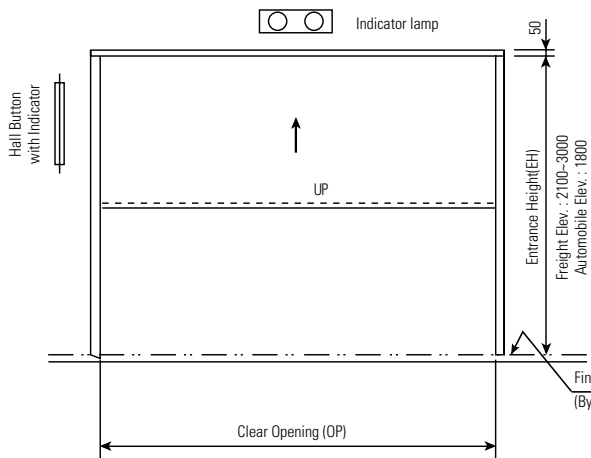


ENTRANCE LAYOUTS

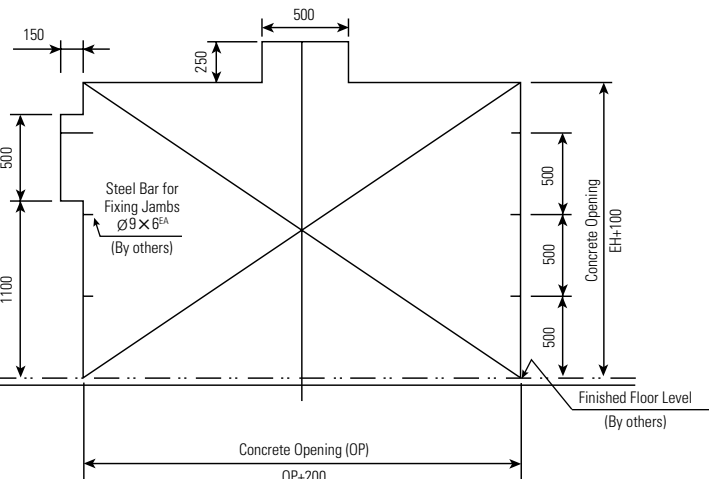
2-Panel Up-Sliding Doors (2U) / 4-Panel Center-Opening Doors (2S-CO)

2-Panel Up-Sliding Doors (2U)

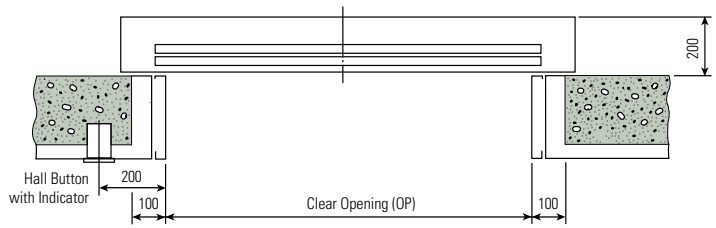
Entrance Design



Structural Opening of Entrance



Plan of Entrance

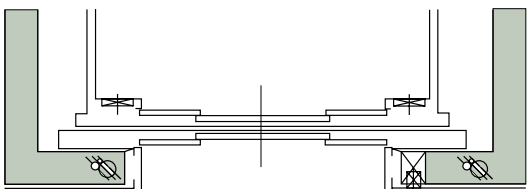


- Minimum floor height : $\text{Opening Height} \times 3 / 2 + 700\text{mm}$
- Minimum entrance height : 1800mm

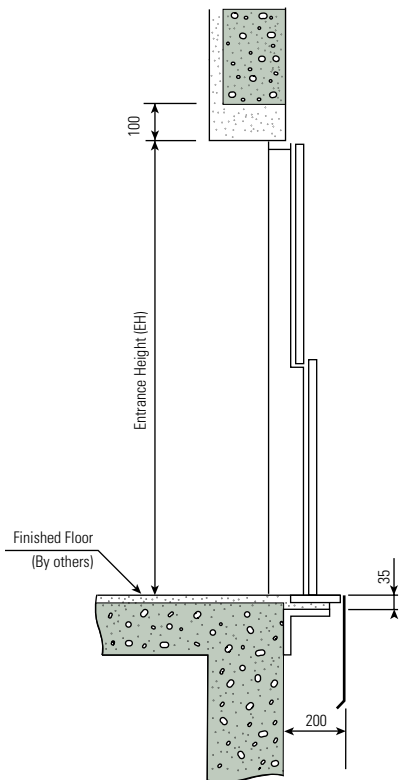
▲ Notes : 1. The standard location of Hall Button with Indicator for automobile elevators is on left wall but it is on the right wall for freight elevators.
2. Consult Hyundai if the demensions are less than the minimum.

4-Panel Center-Opening Doors (2S-CO)

Plan of Entrance

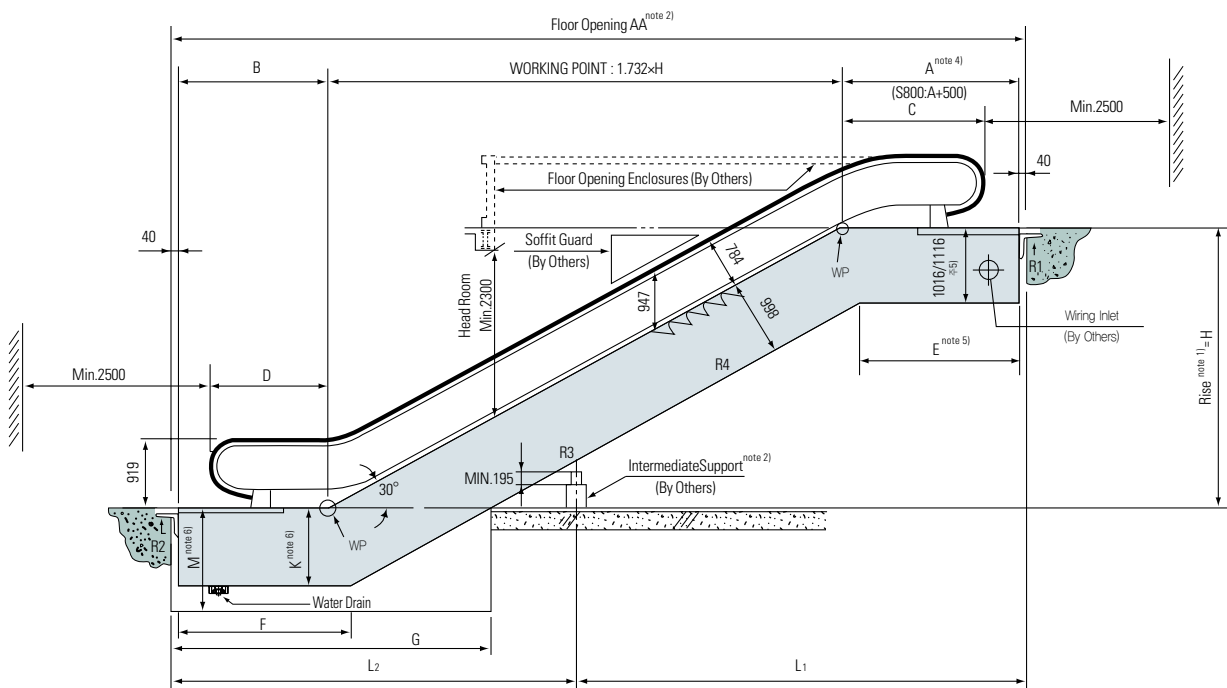


Section of Entrance



S-SERIES ESCALATORS(30°)

COMMERCIAL TYPE | S-BT



- ▲ Notes : 1. Vertical Rise : $1.7m \leq H \leq 8m$
2. $AA=1.732 \times H + A + B + 80$
When maximum floor opening exceeds $AA=15,300mm$, intermediate support(s) are required. Consult Hyundai for the intermediate support data.
3. When vertical rise is over 6,000mm, 3-flat step shall be applied.
4. In case 800type is applied, dimension A, E shall increase 500mm In case inverter system is applied, dimension A, E shall increase 100mm for only 1000type.
5. Motor 5.5kw~11kw : 1,016mm, Motor 15kw : 1,116mm. According to Motor capacity, the corresponding E size is changed.
6. Please refer to the table.

Type	K	M
Indoor	1016	1120
Outdoor	1196	1300

Q'ty of Flat Step	A	B	C	D	E	F	G
2	2580	2105	1977	1501	2344/2517	2340	4350
3	2980	2505	2377	1901	2744/2917	2740	4750

Section Dimensions

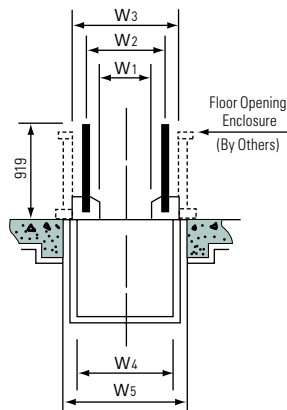
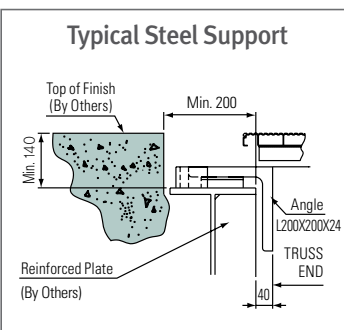
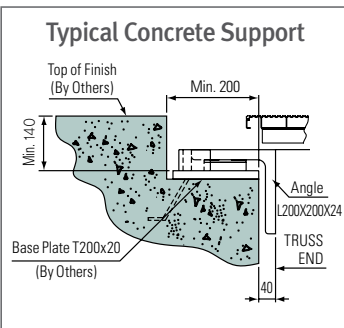
(Unit : mm)

Type	S800	S1000	S1200
W ₁	608	807	1007
W ₂	837	1037	1237
W ₃	1150	1350	1550
W ₄	1120	1320	1520
W ₅	1250	1450	1650

Reactions

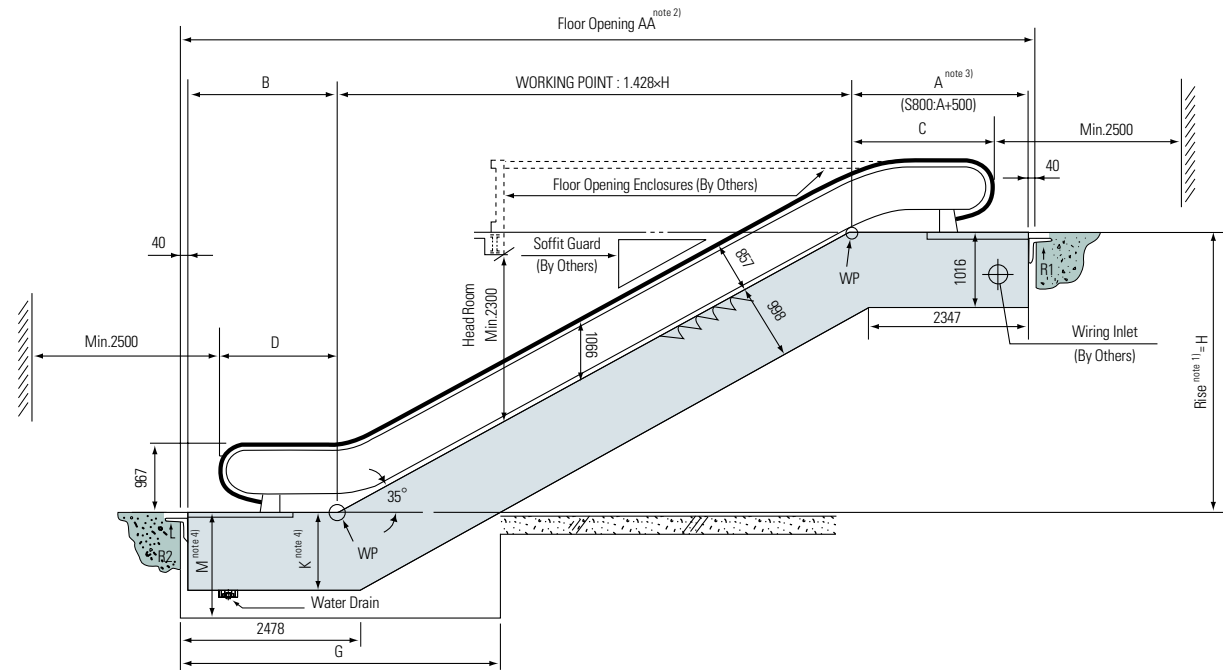
(Unit : kg)

Type	S800		
Rise H (mm)	$H \leq 6000$	$5000 \leq H \leq 7600$	$7600 \leq H \leq 8000$
Number of Intermediate Support	-	1	1
R1	$0.65H + 2300$	$0.36L_1 + 900$	$0.36L_1 + 1100$
R2	$0.65H + 1600$	$0.36L_2 + 300$	$0.36L_2 + 400$
R3	-	$0.36(L_1 + L_2) + 450$	$0.36(L_1 + L_2) + 700$
R4	-	-	-
Type	S1000		
Rise H (mm)	$H \leq 6000$	$5000 \leq H \leq 7600$	$7600 \leq H \leq 8000$
Number of Intermediate Support	-	1	1
R1	$0.72H + 2600$	$0.41L_1 + 900$	$0.41L_1 + 1100$
R2	$0.72H + 1900$	$0.41L_2 + 300$	$0.41L_2 + 400$
R3	-	$0.41(L_1 + L_2) + 450$	$0.41(L_1 + L_2) + 700$
R4	-	-	-
Type	S1200		
Rise H (mm)	$H \leq 6000$	$5000 \leq H \leq 7600$	$7600 \leq H \leq 8000$
Number of Intermediate Support	-	1	1
R1	$0.78H + 2900$	$0.45L_1 + 1000$	$0.45L_1 + 1250$
R2	$0.78H + 2200$	$0.45L_2 + 300$	$0.45L_2 + 450$
R3	-	$0.45(L_1 + L_2) + 500$	$0.45(L_1 + L_2) + 750$
R4	-	-	-



S-SERIES ESCALATORS(35°)

COMMERCIAL TYPE | S-BT



- ▲ Notes : 1. Vertical Rise $2m \leq H \leq 6m$
2. $AA=1.428 \times H + B + C + 80$
When maximum floor opening exceeds $AA=15,300$, intermediate support(s) are required. Consult Hyundai for the intermediate support data.
3. In case 800type is applied, dimension A shall increase 500mm In case inverter system is applied, dimension A shall increase 100mm for only 1000type.
4. Please refer to the table

Type	K	M
Indoor	1016	1120
Outdoor	1191	1300

(Unit : mm)

Q'ty of Flat Step	A	B	C	D	G
2	2636	2189	2164	1717	4350
3	3036	2589	2564	2117	4750

Section Dimensions

(Unit : mm)

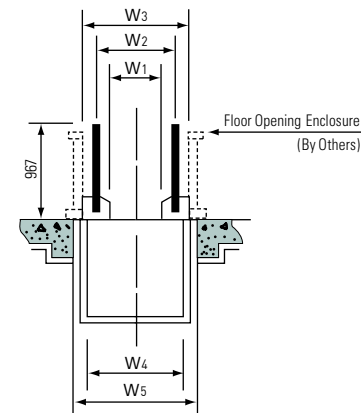
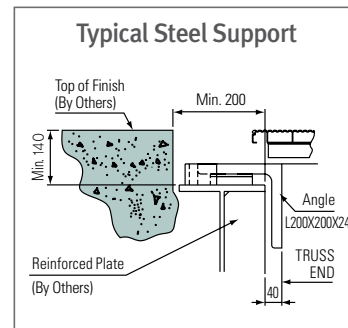
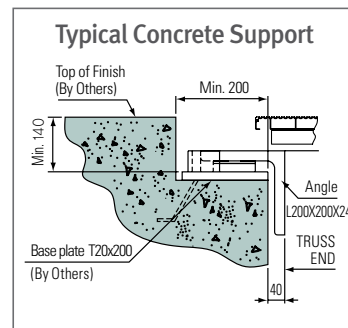
Type	S800	S1000	S1200
W ₁	608	807	1007
W ₂	837	1037	1237
W ₃	1150	1350	1550
W ₄	1120	1320	1520
W ₅	1250	1450	1650

Reactions

(Unit : kg)

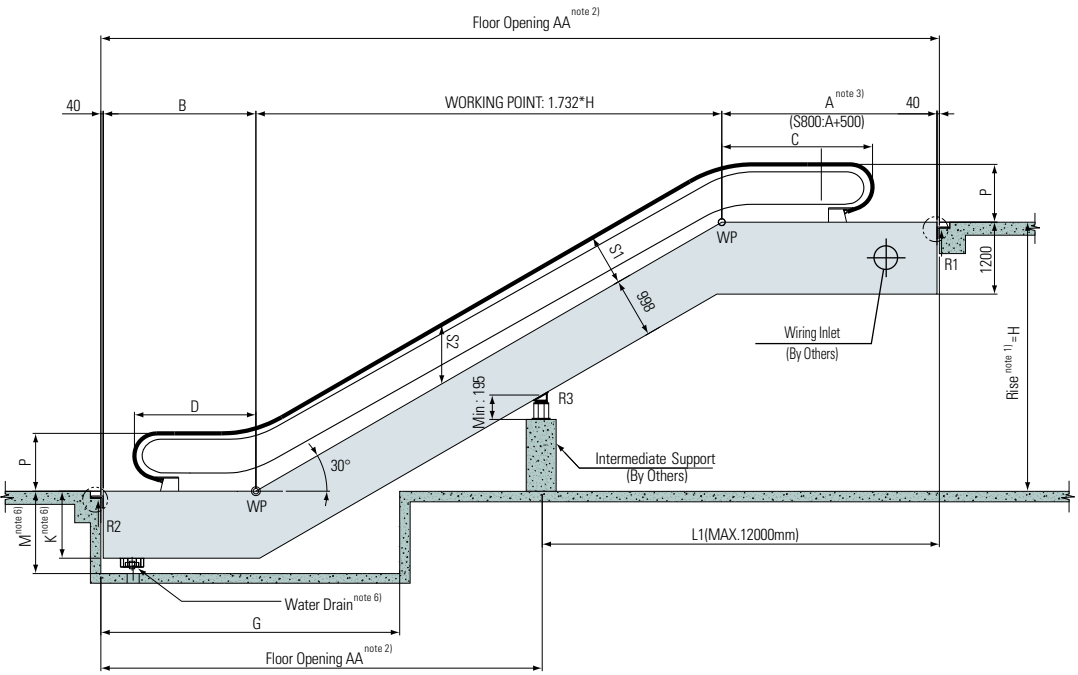
Vertical Rise H (mm)	Reactions	S800	S1000	S1200
2000 ~ 6000	R1	$0.51H + 2400$	$0.59H + 2700$	$0.66H + 3000$
	R2	$0.51H + 1800$	$0.59H + 2100$	$0.66H + 2300$

- ▲ Notes : When AA is over 15,300mm, Consult Hyundai for reactions data.



S-SERIES ESCALATORS(VERTICAL RISE 8M<H≤10.5M)

COMMERCIAL/PUBLIC TYPE | S-BT, S-BB



- ▲ Notes : 1. Vertical Rise : 8m H≤10.5m
2. AA=1.732xH+A+B+80
When maximum floor opening exceeds AA=12,000, intermediate support(s) are required. Consult Hyundai for the intermediate support data.
3. In case inverter system is applied, dimension "A" shall be increased 500mm for only S800 type

Type	Balustrade	
	BT MODEL	BB MODEL
A	3579	
B	2505	
C	2503	2380
D	2032	1904
G	5000	
P	967	992
S1	857	844
S2	1031	1016

Type	K	M
Indoor	1016	1120
Outdoor	1116	1300

4. Above dimensions are based on EN115
5. Q'ty of flat step : 3
6. Please refer to the table

Section Dimensions

(Unit : mm)

Type	S800	S1000	S1200
W ₁	608	807	1007
W ₂	837	1037	1237
W ₃	1150	1350	1550
W ₄	1120	1320	1520
W ₅	1230	1430	1630

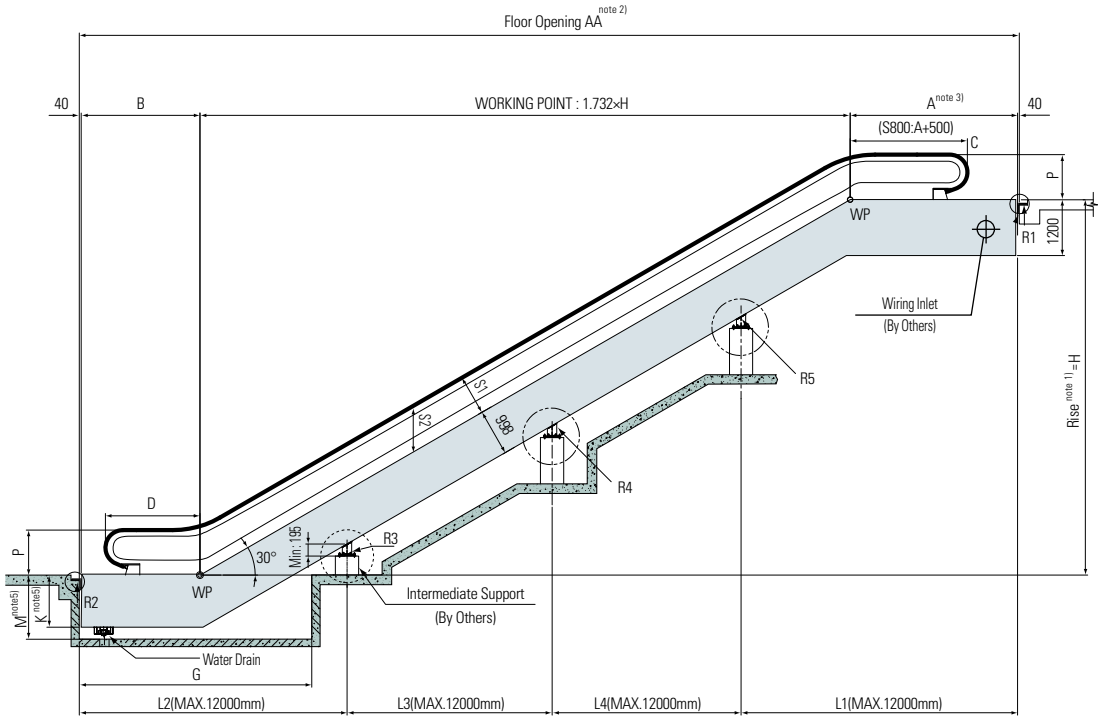
Reactions

(Unit : kg)

Type	S800		
Rise H (mm)	H ≤ 5000	5000 ≤ H ≤ 8000	8000 ≤ H ≤ 10500
Number of Intermediate Support	-	1	2
R1	0.65H+2300	0.36L ₁ +900	0.36L ₁ +1100
R2	0.65H+1600	0.36L ₂ +300	0.36L ₂ +400
R3	-	0.36(L ₁ +L ₂)+450	0.36(L ₂ +L ₃)+250
R4	-	-	0.36(L ₁ +L ₃)+600
Type	S1000		
Rise H (mm)	H ≤ 5000	5000 ≤ H ≤ 8000	8000 ≤ H ≤ 10500
Number of Intermediate Support	-	1	2
R1	0.72H+2600	0.41L ₁ +900	0.41L ₁ +1100
R2	0.72H+1900	0.41L ₂ +300	0.41L ₂ +400
R3	-	0.41(L ₁ +L ₂)+450	0.41(L ₂ +L ₃)+250
R4	-	-	0.41(L ₁ +L ₃)+600
Type	S1200		
Rise H (mm)	H ≤ 5000	5000 ≤ H ≤ 8000	8000 ≤ H ≤ 10500
Number of Intermediate Support	-	1	2
R1	0.78H+2900	0.45L ₁ +1000	0.45L ₁ +1250
R2	0.78H+2200	0.45L ₂ +300	0.45L ₂ +450
R3	-	0.45(L ₁ +L ₂)+500	0.45(L ₂ +L ₃)+300
R4	-	-	0.45(L ₁ +L ₃)+650

S-SERIES ESCALATORS(VERTICAL RISE 10.5M<H≤16 M)

PUBLIC TYPE | S-BT,S-BB



- ▲ Notes : 1. Vertical Rise 10.5m < H ≤ 16m
2. AA=1.732xH+A+B+40
When maximum floor opening exceeds AA=12,000mm, intermediate support(s) are required.
3. In case inverter system is applied, dimension "A" shall be increased 500mm for only S800 type
4. Above dimensions are based on EN115
5. Q'ty of flat step : 3
6. Please refer to the table

Type	K	M
Indoor	1116	1220
Outdoor	1216	1400

Type	BT MODEL	BB MODEL
A	3600	
B	2554	
C	2523	2400
D	2032	1911
G	5000	
P	967	992
S1	857	844
S2	1031	1016

Section Dimensions

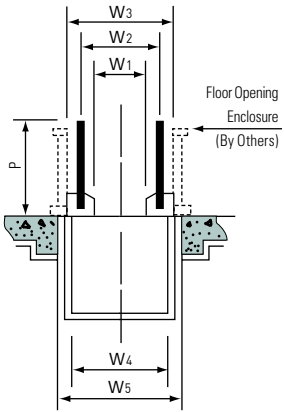
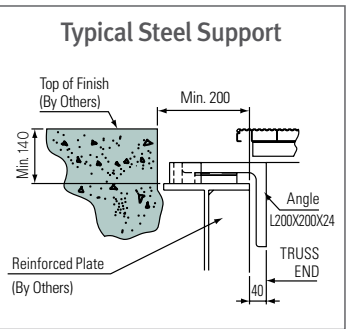
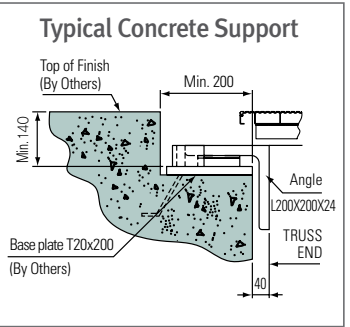
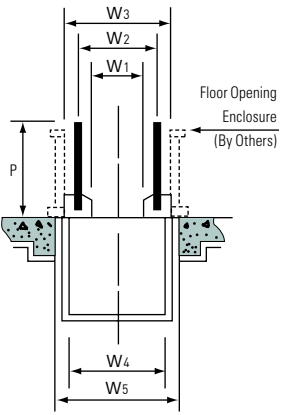
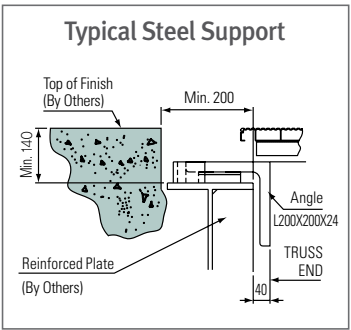
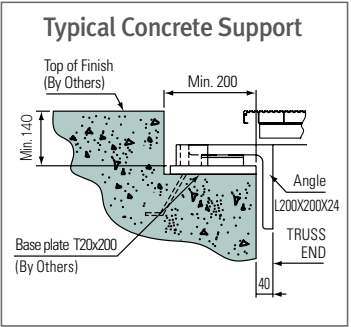
(Unit : mm)

Type	S800	S1000	S1200
W ₁	608	807	1007
W ₂	837	1037	1237
W ₃	1150	1350	1550
W ₄	1120	1320	1520
W ₅	1250	1450	1650

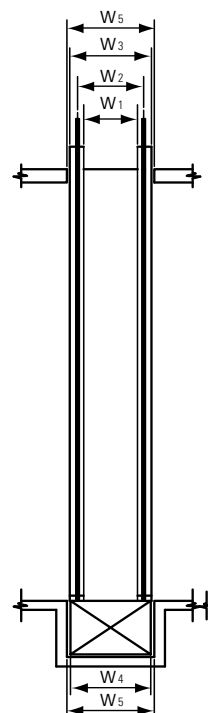
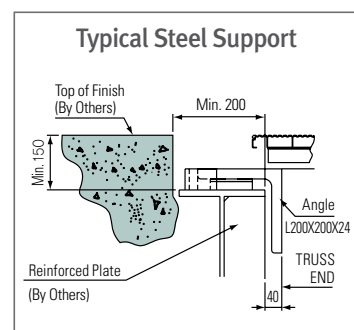
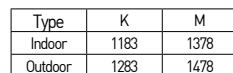
Reactions

(Unit : kg)

Type	S800	
Rise H (mm)	10500 ≤ H ≤ 14000	14000 ≤ H ≤ 16000
Number of Intermediate Support	2	3
R1	0.47L ₁ +1200	0.47L ₁ +1200
R2	0.47L ₂ +400	0.47L ₂ +400
R3	0.47(L ₂ +L ₃)+100	0.47(L ₂ +L ₃)+100
R4	0.47(L ₁ +L ₃)+350	0.47(L ₃ +L ₄)+100
R5	-	0.47(L ₁ +L ₄)+350
Type	S1000	
Rise H (mm)	10500 ≤ H ≤ 14000	14000 ≤ H ≤ 16000
Number of Intermediate Support	2	3
R1	0.51L ₁ +1400	0.51L ₁ +1400
R2	0.51L ₂ +500	0.51L ₂ +500
R3	0.51(L ₂ +L ₃)+150	0.51(L ₂ +L ₃)+150
R4	0.51(L ₁ +L ₃)+450	0.51(L ₃ +L ₄)+150
R5	-	0.51(L ₁ +L ₄)+450
Type	S1200	
Rise H (mm)	10500 ≤ H ≤ 14000	14000 ≤ H ≤ 16000
Number of Intermediate Support	2	3
R1	0.54L ₁ +1700	0.54L ₁ +1700
R2	0.54L ₂ +600	0.54L ₂ +600
R3	0.54(L ₂ +L ₃)+300	0.54(L ₂ +L ₃)+300
R4	0.54(L ₁ +L ₃)+700	0.54(L ₃ +L ₄)+300
R5	-	0.54(L ₁ +L ₄)+700



PUBLIC TYPE | S-BB



Type	16m<H≤22m		Drive Unit	Remark
	3 Step	4 Step		
A	4181	4581	Single Drive	Motor Power≤30kw
	4431	4831		Motor Power>30kw
	4581	4981	Double Drive	One Motor Power≤22kw
	4981	5381		One Motor Power>22kw
B	2828	3228	-	-
C	2854	3254	-	-
D	2118	2518	-	-
E	5600	6000	-	-
Q	952	952	-	-

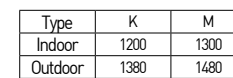
(Unit : mm)

Type	\$1000	\$1200
W_1	807	1007
W_2	1100	1300
W_3	1500	1700
W_4	1450	1650
W_5	1580	1780

(Unit:kgf)

Type	\$1000	
Number of Intermediate Support	2	3
R ₁	0.61L ₁ +900	0.61L ₁ +900
R ₂	0.61L ₂ +200	0.61L ₂ +200
R ₃	0.61(L ₂ +L ₃)	0.61(L ₂ +L ₃)
R ₄	0.61(L ₁ +L ₃)	0.61(L ₁ +L ₃)
R ₅	-	0.61(L ₁ +L ₄)
Type	\$1200	
Number of Intermediate Support	2	3
R ₁	0.64L ₁ +1100	0.64L ₁ +1100
R ₂	0.64L ₂ +300	0.64L ₂ +300
R ₃	0.63(L ₂ +L ₃)	0.63(L ₂ +L ₃)
R ₄	0.67(L ₁ +L ₃)	0.67(L ₁ +L ₃)
R ₅	-	0.67(L ₁ +L ₄)

HORIZONTAL TYPE | SM-BT

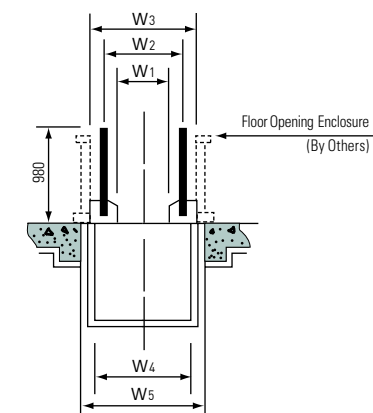
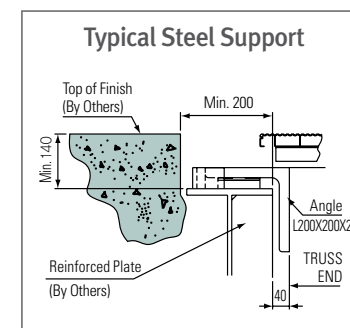
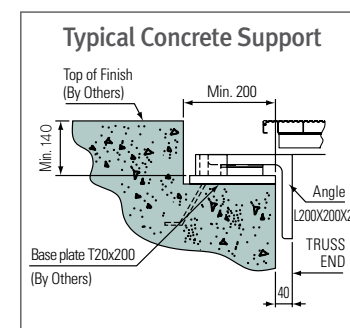


$\sim L_n$ Unit : m)

Inclination	Floor Opening AA	Type	R1(kg)	R2(kg)	R3(kg)	R4(kg)	Rn(kg)
0°	10M-100M	SM1000	400 × L ₁ + 1300	400 × L ₂ + 400	370 × (L ₂ + L ₃)	370 × (L ₃ + L ₄)	370 × (L ₁ + L _n)
		SM1200	420 × L ₁ + 1700	420 × L ₂ + 700	460 × (L ₂ + L ₃)	460 × (L ₃ + L ₄)	460 × (L ₁ + L _n)

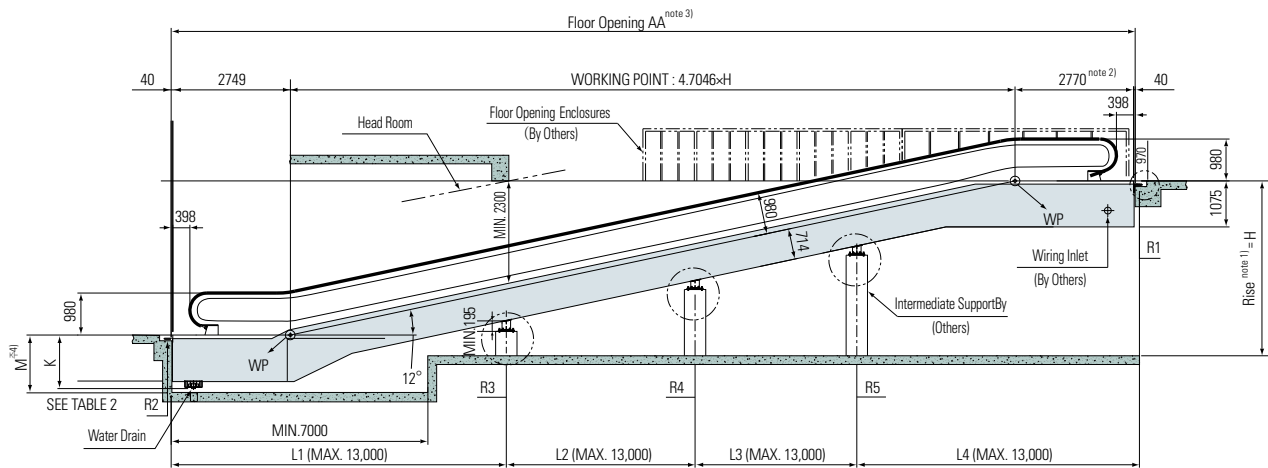
(Unit : mm)

Type	SM1000	SM1200
W_1	807	1007
W_2	1037	1237
W_3	1350	1550
W_4	1320	1520
W_5	1450	1650



MOVING WALKS (12°)

INCLINED TYPE | SM-BT



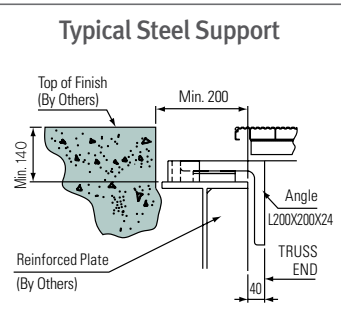
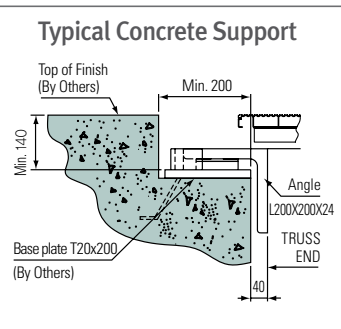
- ▲ Notes :
- 1. Vertical Rise : $1420\text{m} \leq H \leq 9000\text{m}$
 - 2. When vertical rise is over 7000mm, dimension 2770 of 1200 type shall increase 500mm.
 - 3. $AA=4.706 \times H + 2770 + 2749 + 80$
Maximum distance between intermediate supports is 13,000mm.
Consult Hyundai for the intermediate supports and reactions data.
 - 4. Please refer to the table

Type	K	M
Indoor	1075	1200
Outdoor	1255	1380

Reactions

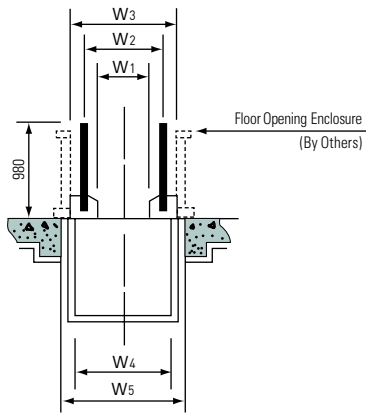
(L₁ ~ L₅ Unit : m)

Number of Intermediate Support	SM1000					SM1200				
	R1(kg)	R2(kg)	R3(kg)	R4(kg)	R5(kg)	R1(kg)	R2(kg)	R3(kg)	R4(kg)	R5(kg)
1	$350 \times L_1 + 1450$	$350 \times L_2 + 720$	$410 \times (L_1 + L_2) + 1600$	-	-	$390 \times L_1 + 1600$	$390 \times L_2 + 790$	$450 \times (L_1 + L_2) + 1750$	-	-
2	$350 \times L_1 + 1450$	$350 \times L_2 + 720$	$410 \times (L_2 + L_3) + 1600$	$410 \times (L_1 + L_3) + 1600$	-	$390 \times L_1 + 1600$	$390 \times L_2 + 790$	$450 \times (L_2 + L_3) + 1750$	$450 \times (L_1 + L_3) + 1750$	-
3	$350 \times L_1 + 1450$	$350 \times L_2 + 720$	$410 \times (L_3 + L_4) + 1600$	$410 \times (L_2 + L_4) + 1600$	$410 \times (L_1 + L_4) + 1600$	$390 \times L_1 + 1600$	$390 \times L_2 + 790$	$450 \times (L_2 + L_3) + 1750$	$450 \times (L_3 + L_4) + 1750$	$450 \times (L_1 + L_4) + 1750$



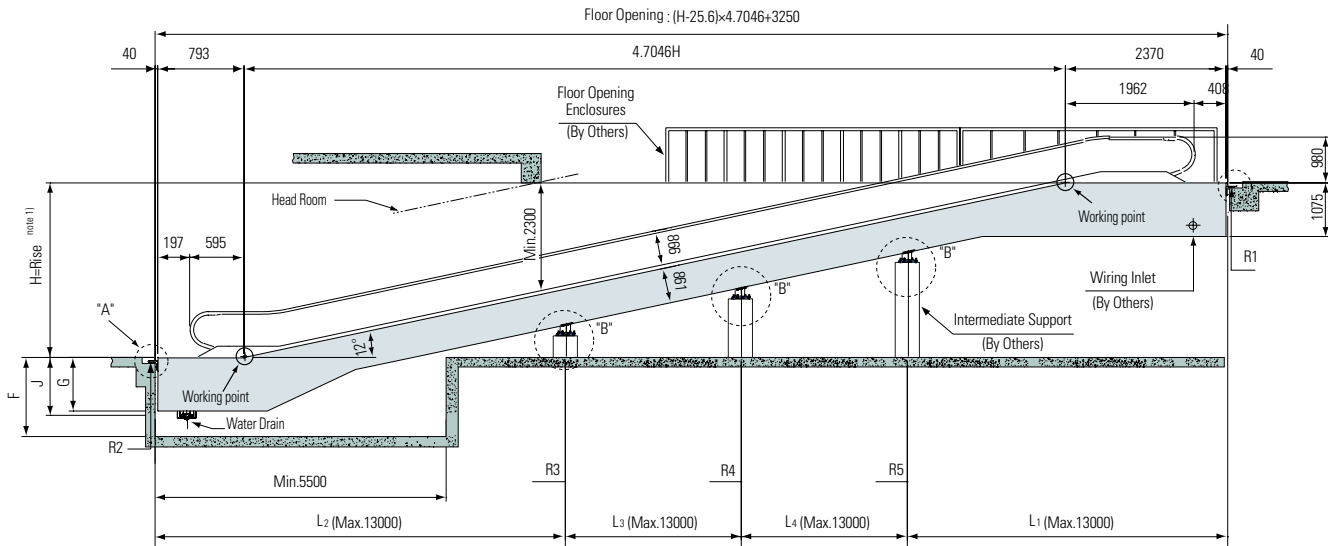
Section Dimensions (Unit : mm)

Type	SM1000	SM1200
W ₁	807	1007
W ₂	1037	1237
W ₃	1350	1550
W ₄	1320	1520
W ₅	1450	1650



MOVING WALKS (12°)

INCLINED TYPE | SMC-BT



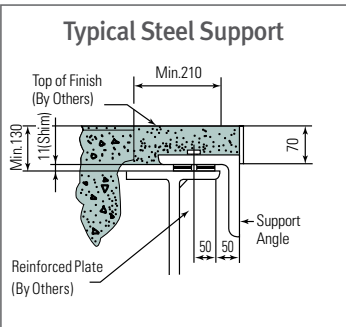
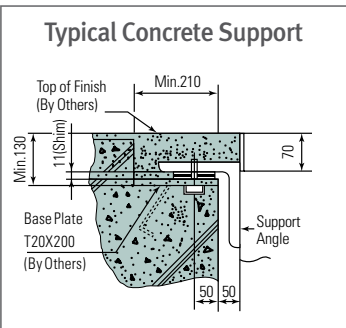
- ▲ Notes :
- 1. Vertical Rise : $1420\text{m} \leq H \leq 6000\text{m}$
 - 2. Dimension between the end of handrail to the wall : Min. 2500mm
 - 3. Dimensions are based on EN115

Type	G	J	F
Indoor	1075	-	1200
Outdoor	-	1255	1380

Reactions

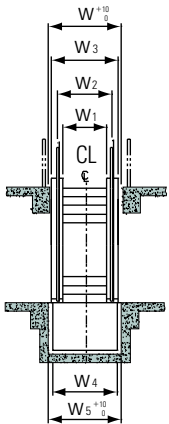
(L₁ ~ L₅ Unit : m)

Number of Intermediate Support	W1000					W1000				
	R1(kg)	R2(kg)	R3(kg)	R4(kg)	R5(kg)	R1(kg)	R2(kg)	R3(kg)	R4(kg)	R5(kg)
1	$450 \times L_1 + 700$	$420 \times L_2 + 45$	$440 \times (L_1 + L_2)$	-	-	$500 \times L_1 + 780$	$470 \times L_2 + 50$	$490 \times (L_1 + L_2)$	-	-
2	$450 \times L_1 + 700$	$420 \times L_2 + 45$	$430 \times (L_2 + L_3)$	$440 \times (L_1 + L_3)$	-	$500 \times L_1 + 780$	$470 \times L_2 + 50$	$480 \times (L_2 + L_3)$	$500 \times (L_1 + L_3)$	-
3	$450 \times L_1 + 700$	$420 \times L_2 + 45$	$430 \times (L_2 + L_3)$	$440 \times (L_3 + L_4)$	$440 \times (L_1 + L_4)$	$500 \times L_1 + 780$	$470 \times L_2 + 50$	$480 \times (L_2 + L_3)$	$490 \times (L_3 + L_4)$	$500 \times (L_1 + L_4)$



Section Dimensions (Unit : mm)

Type	W1000	W1200
W ₁	807	1007
W ₂	1037	1237
W ₃	1330	1550
W ₄	1320	1520
W ₅	1500	1700



CONSTRUCTIONS EXCLUDED FROM OUR SUPPLY SCOPE FOR ELEVATORS /ESCALATORS / MOVING WALKS

Following construction and electric works are not included in our supply scope for elevators, escalators, and moving walks. These should be carried out by the building construction companies. (Note: For elevators without machine room, please contact us.)

Elevator

Construction Work

Hoistway

- Forming holes on the wall surrounding the exit on each floor (exit, hall button, hall lantern, etc.), and finishing the walls and floors after installing the elevator (including mortar filling)
- Installation of steel frame to fix the left/right jambs on the exit
- Installation of ladder for pit inspection
- Waterproofing work inside the pit and finishing work after attaching the buffer
- Installation of hoistway partitions or separating beams (when necessary)
- Removing various tie pins and molds
- Others (items indicated on the floor plan)
- Construction of concrete structures (thickness of 150mm or above) or beam structures that can fasten the rail brackets in the hoistway wall
- Supplying storage for construction tools and materials free of charge
- Destruction and finishing of concrete structures that are not constructed as indicated on the blueprint
- Installation of lighting within hoistway (install lighting of 100 Lux or above on upper and lower part of the hoistway)
- Installation of tensile beam or hook that is designed to lift the machine to the ceiling of hoistway

Machine Room

- Forming holes for machines and ropes on the floor, finishing on cinder concrete, and installation of those indicated on the floor plan
- Installation of pulley beam or hook on the ceiling of machine room
- Installation of reinforcement beam on machine room floor (when necessary)
- Supplying water used for construction free of charge
- Supplying storage for construction tools and materials free of charge

Electric Work

Hoistway

- Installation of natural or artificial lighting of 50 Lux or above (measured from the floor) on platform of each floor (150 Lux in case of an elevator for the handicapped)
 - Piping and wiring work from monitoring panel to hoistway when monitoring panel is installed
 - Piping and wiring work when CCTV is installed
 - Others (items indicated on the floor plan)
 - Wiring work on power system within the hoistway for supplying power and lighting (refer to the floor plan for building power facilities regarding the capacity of power facilities.)
 - Installation of distribution box for elevator (including N.F.B) on electrical room (install near the hoistway. refer to the floor plan for building power facilities regarding the capacity of power facilities.)
 - Construction for power facilities to maintain the voltage regulation of distribution source within +5 % to -10 % and lighting within ±2 %
 - Piping and wiring work on lighting outlet for pit inspection
 - Supplying power needed during installation and commissioning free of charge
 - Piping and wiring work on emergency communication device between elevator control panel, central control
- (Wire specifications: UTP 0.5 mm x 2P per each elevator)
- Communication device that connects the inside and outside of the elevator should be installed redundantly on the area where the managing personnel is stationed (security office, electric room, and central control room). In case of the facility where the managing personnel is stationed in only one place, however, only one communication device may be installed.
 - Also, a communication device that automatically requests for help to maintenance company or self-inspector should be installed in order to deal with the situation where the internal communication is not established.

Machine Room

- Piping and wiring work outside the hoistway when interphone is installed on places other than the machine room
- Construction of lighting and lighting outlets for inspection in machine room
- Supplying power needed during installation and commissioning free of charge
- Installation of lighting for power system and cage, and construction of machine room incoming panel and its wiring for emergency power
- Installation of permanent lighting that can be separated from the power for elevator and provide light of 200 Lux or above from the floor in machine room

Matters to Note

- Exit for machine room should be made of fire-proof material and should be installed in a structure that does not lead to other places.
 - Do not install ducts or pipes for other purposes (electricity, water, gas, hydrant) on the hoistway and walls inside the machine room.
 - Lower part of pit should not be used as residence, pathway, or for other purposes.
 - Power and voltage regulation should be within +5 % to -10 %.
 - Temperature in machine room should be 40℃ and humidity should be 90 % or below. Be sure to install the entilation window, ventilator, or other air-conditioning facilities to prevent generation of dust or poisonous gas inside the machine room.
- ※ When you wish to build the hoistway in steel frame, please contact us. (Steel frame construction for hoistway is excluded from our supply scope.)
- ※ Construction errors: Inner hoistway size that is indicated on the blueprint of this catalog is the minimum size that is designed to fit the size of the elevator interior. So, the construction error limit for hoistway width and overall height is ±30 mm.
- ※ Calculation equation for heat generation in machine room (based on one elevator)
- Q: (kcal/H) = W×V×F×N
W: Loading capacity (kg) N: Number of elevators
V: Rated speed (m/min) F: Coefficient based on control type (1/42 : VVVF)

Escalator/Moving Walk

Construction Work

- Forming holes on the floor slab for installation and filling the holes after installation
- Installation of intermediate strut beams for installation (when necessary)
- Forming holes on the floor slab for introducing escalator/moving walk and filling the holes after installation
- Construction and waterproofing work on the lowest floor and lower pit of the escalator/moving walk (Constructing fire-proof pit when there is a living room under the lower machine room)
- Finishing work on floor and ceiling around the escalator/moving walk
- Construction of handle around escalator/moving walk
- Bordering work on the part where the ceiling of the building and the escalator/moving walk meet each other
- Installation of fall protection net in case that the floor of escalator/moving walk has a hole
- Forming holes for introducing the escalator/moving walk and filling the holes after installation
- Curing and restoring the borders of escalator/moving walk when it is installed on an existing building
- Supplying storage for construction tools and materials free of charge
- Exterior work on escalator/moving walk

Electric Work

- Power system and lighting: Piping and wiring work on upper incoming panel of escalator/moving walk
- Power for inspection: Piping and wiring work on upper incoming panel of escalator/moving walk
- Grounding wire (class III): Piping and wiring work on upper incoming panel of escalator/moving walk
- Piping and wiring work for the installation of fire-proof shutter and electrical contacts up to the upper control panel of escalator/moving walk (Piping and wiring work on electrical contacts and monitoring panels)
- Supplying power needed during installation and commissioning free of charge

ELECTRIC POWER REQUIREMENTS

(By Others)

Elevator(1.0~2.5 m/sec)

(380V)

Load (kg)	Speed (m/sec)	Motor Capacity (kW)	MCCB Capacity of Building (A)		Power Supply Capacity (kVA)		Power Cable Size (mm²)		Earth Wire Size (mm²)	
			1Car	2Cars	1Car	2Cars	1Car	2Cars	1Car	2Cars
450	1.0	2.8	20	20	6	11	4	4	6	6
	1.5	4.2	20	30	7	14	4	6	6	6
	1.75	4.9	20	30	9	18	4	6	6	6
550	1.0	3.4	20	20	7	13	7	4	6	6
	1.5	5.1	20	30	9	18	4	6	6	6
	1.75	5.9	20	40	11	21	4	10	6	6
600	1.0	3.7	20	20	7	13	4	4	6	6
	1.5	5.6	20	30	10	19	4	6	6	6
	1.75	6.5	20	40	12	23	4	10	6	6
700	1.0	4.3	20	30	7	14	4	6	6	6
	1.5	6.5	20	40	12	23	4	10	6	6
	1.75	7.5	20	40	13	26	4	10	6	6
750	1.0	4.6	20	30	8	16	4	6	6	6
	1.5	6.9	20	40	12	24	4	10	6	6
	1.75	8.1	30	50	14	28	6	16	6	10
900	1.0	5.6	20	30	10	19	4	6	6	6
	1.5	8.3	30	50	14	28	6	16	6	10
	1.75	9.7	30	60	17	34	6	16	6	10
	2.0	11.1	30	60	20	39	6	16	6	10
	2.5	14.8	50	100	25	50	16	35	10	16
1000	1.0	6.2	20	40	11	21	4	10	6	6
	1.5	9.2	30	50	16	31	6	16	6	10
	1.75	10.8	30	60	19	37	6	16	6	10
	2.0	12.3	40	75	21	42	10	25	6	16
	2.5	16.4	50	100	28	55	16	35	10	16
1150	1.0	7.1	20	40	12	24	4	10	6	6
	1.5	10.6	30	60	19	37	6	16	6	10
	1.75	12.4	40	75	21	42	10	25	6	16
	2.0	14.1	40	75	25	49	10	25	6	16
	2.5	18.8	60	100	32	63	16	35	10	16
1350	1.0	8.3	30	50	14	28	6	16	6	10
	1.5	12.4	40	75	22	44	10	25	6	16
	1.75	14.5	40	100	26	51	10	35	6	16
	2.0	16.6	50	100	29	57	16	35	10	16
	2.5	22.1	75	125	37	74	25	50	16	25
1600	1.0	9.8	30	60	18	36	6	16	6	10
	1.5	14.7	40	100	26	51	10	35	6	16
	1.75	17.2	50	100	30	59	16	35	10	16
	2.0	19.7	60	125	35	69	16	50	10	25
	2.5	26.2	75	125	39	77	25	50	16	25

- ▲ Notes : 1. Above power feeder sizes are for the length of electric wire up to 50m from elevator machine room to power.
For the length being 50m or more, the following formular should be applied.
2. Above cable sizes are for copper wires inside electrometallic tubings.
- Cable sizes(mm²)= $\frac{\text{Cable length(m)}}{50} \times \text{Size in the above(mm²)}$
3. For power requirement of 3 cars or more, consult Hyundai.
4. Machine room temperature should be maintained below 40℃ with ventilating fan and air conditioner, and below 90%.

ELECTRIC POWER REQUIREMENTS

[By Others]

Elevator(3.0~10.0 m/sec)

(380V)

Load (kg)	Speed (m/sec)	Motor Capacity (kW)	MCCB Capacity of Building (A)		Power Supply Capacity (kVA)		Power Cable Size (mm²)		Earth Wire Size (mm²)	
			1Car	2Cars	1Car	2Cars	1Car	2Cars	1Car	2Cars
900	3.0	16.6	50	100	30	59	16	35	10	16
1000	3.0	18.4	60	125	32	64	16	50	10	25
	3.5	23.0	75	125	38	76	25	50	16	25
	4.0	26.0	100	150	44	87	35	70	16	25
	4.0	26.0	100	150	44	87	35	70	16	25
1150	3.0	21.2	75	125	38	76	25	50	16	25
	3.5	25	75	150	44	87	25	70	16	25
	4.0	30	100	175	50	99	35	95	16	25
	5.0	36	125	200	63	125	50	95	25	50
	6.0	43	125	250	74	148	50	120	25	95
	7.0	50	125	250	77	154	50	120	25	95
	8.0	57	150	300	88	175	70	150	25	95
	9.0	64	175	350	98	186	95	150	25	120
	10.0	71	175	350	109	218	95	150	25	120
	3.0	25	75	150	44	87	25	70	16	25
1350	3.5	30	100	175	51	102	35	95	16	25
	4.0	35	125	200	58	115	50	95	25	50
	5.0	42	125	250	74	148	50	120	25	95
	6.0	50	150	300	88	175	70	150	25	95
	7.0	58	150	300	90	180	70	150	25	95
	8.0	67	175	350	103	205	95	150	25	120
	9.0	75	200	400	115	230	95	150	50	150
	10.0	83	225	400	127	254	95	150	50	150
	3.0	30	100	175	52	104	35	95	16	25
	3.5	35	125	200	60	120	50	95	25	50
1600	4.0	40	125	225	69	138	50	95	25	50
	5.0	50	150	300	87	173	70	150	25	95
	6.0	60	175	350	103	206	95	150	25	120
	7.0	69	175	350	107	214	95	150	25	120
	8.0	79	200	400	122	243	95	150	50	150
	9.0	89	225	500	136	272	95	240	50	185
	10.0	98	250	500	151	302	120	240	95	185
	3.0	30	100	175	52	104	35	95	16	25
	3.5	35	125	200	60	120	50	95	25	50
	4.0	40	125	225	69	138	50	95	25	50

- ▲ Notes :

1. The above power sizes are for lengths of electric wire up to 50m from the elevator machine room to the transformer.
For lengths of 50m or more, the following formula should be applied:
Power feeder size(mm²)= $\frac{\text{Power feeder length(m)}}{50}$ × Size in the above(mm²)

Number of elevator(N)	1	2	3	4	5
Diversity Factor	1.00	0.91	0.85	0.80	0.76
2. Above power feeder sizes are for copper wires inside electro-metallic tubing.
3. It is recommended a larger diameter earth wire be used.
4. For installing several elevators, apply the following formula.
Transformer Capacity(KVA)=Number of elevator X Diversity factor.

ELECTRIC POWER REQUIREMENTS

[By others]

MRL(Machine-Room less) Elevator | 1.0~1.75m/sec

[220V / 380V]

Load (kg)	Speed (m/sec)	Motor Capacity (kW)	MCCB Capacity of Building (A)		Power Supply Capacity (kVA)		Power Cable Size (mm²)		Earth Wire Size (mm²)		Starting Power (kVA/car)
			1Car	2Cars	1Car	2Cars	1Car	2Cars	1Car	2Cars	
450	1.0	3.0	20/20	30/20	6	11	4/4	8/4	6/6	6/6	12
	1.5	4.5	30/20	50/30	8	16	7/4	16/6	6/6	6/6	16
	1.75	5.2	30/20	50/30	10	19	8/4	16/6	6/6	6/6	19
550	1.0	3.6	20/20	40/20	7	13	5/4	10/4	6/6	6/6	14
	1.5	5.4	30/20	50/30	10	19	8/4	16/6	6/6	6/6	19
	1.75	6.3	30/20	60/40	12	23	10/4	18/10	6/6	10/6	23
600	1.0	3.9	20/20	40/30	8	15	6/4	11/6	6/6	6/6	16
	1.5	5.9	30/20	60/40	11	21	9/4	17/10	6/6	10/6	21
	1.75	6.9	40/20	75/40	13	25	11/4	25/10	6/6	10/6	25
700	1.0	4.6	30/20	50/30	9	17	7/4	16/6	6/6	6/6	18
	1.5	6.9	40/20	75/40	13	25	11/4	25/10	6/6	10/6	25
	1.75	8.1	40/30	100/50	15	29	13/6	35/16	6/6	16/6	29
750	1.0	4.9	30/20	50/30	9	18	8/4	16/6	6/6	6/6	18
	1.5	7.4	40/20	75/40	13	26	12/4	25/10	6/6	10/6	25
	1.75	8.6	40/30	100/50	15	30	13/6	35/16	6/6	16/6	29
900	1.0	5.9	30/20	60/40	11	21	9/4	17/10	6/6	10/6	21
	1.5	8.9	50/30	100/50	16	31	16/6	35/16	6/6	16/6	31
	1.75	10.3	50/30	100/60	19	37	16/6	35/16	6/6	16/10	37
	2.0	11.8	60/30	125/60	20	39	18/6	50/16	10/6	25/10	38
	2.5	14.8	75/50	150/100	25	50	25/16	70/35	16/10	25/16	48
	1.0	6.6	40/20	75/40	12	23	10/4	25/10	6/6	10/6	23
1000	1.5	9.8	50/30	100/60	18	36	16/6	35/16	6/6	16/10	35
	1.75	11.5	60/40	125/75	21	41	18/10	50/25	10/6	25/10	40
	2.0	13.1	60/40	125/75	22	43	19/10	50/25	10/6	25/16	42
	2.5	16.4	75/50	150/100	28	55	25/16	70/35	16/10	25/16	54
	1.0	7.5	40/20	75/40	14	27	12/4	25/10	6/6	10/6	27
	1.5	11.3	60/40	125/75	21	41	18/10	50/25	10/6	25/10	40
1150	1.75	13.2	75/40	125/75	24	47	25/10	50/25	10/6	25/10	46
	2.0	15.1	75/40	150/75	25	49	25/10	70/25	10/6	25/16	48
	2.5	18.8	100/60	175/100	32	63	35/16	95/35	16/10	25/16	61
	1.0	8.9	50/30	100/50	16	31	16/6	35/16	6/6	16/6	31
	1.5	13.3	75/40	125/75	24	47	25/10	50/25	10/6	25/10	46
	1.75	15.5	75/50	125/100	27	54	25/16	50/35	10/6	25/16	52
1350	2.0	17.7	75/50	150/100	29	57	27/16	70/35	16/10	25/16	56
	2.5	22.1	100/75	200/125	37	74	35/25	95/50	25/16	35/25	71
	1.0	10.5	50/30	100/60	19	37	16/6	35/16	6/6	16/10	37
	1.5	15.7	75/50	150/100	28	56	25/16	70/35	10/6	25/16	54
	1.75	18.3	75/50	150/100	32	64	29/16	70/35	10/6	25/16	61
	2.0	21.0	100/60	175/125	35	69	35/16	95/50	25/10	35/25	67
1600	2.5	26.2	125/75	225/125	39	77	50/25	95/50	35/16	50/25	75
	1.0	11.8	60/30	125/60	20	39	18/6	50/16	16/6	35/10	38
	1.5	17.7	75/50	150/100	29	57	27/16	70/35	16/10	25/16	56
	1.75	20.6	100/60	175/125	34	67	35/16	95/50	25/16	35/25	65
	2.0	23.6	100/60	200/125	39	77	35/16	95/50	35/16	50/25	75
	2.5	29.5	125/75	250/150	43	86	50/25	120/70	35/16	70/25	82
2000	1.0	13.1	60/40	125/75	22	43	19/10	50/25	16/10	25/16	42
	1.5	19.7	75/50	150/100	31	62	29/16	70/35	25/16	35/25	59
	1.75	22.9	100/60	175/125	37	74	35/16	95/50	25/16	35/25	71
	2.0	26.2	100/60	200/125	38	75	39/16	95/50	35/16	50/25	73
	2.5	32.7	150/75	300/150	48	96	70/25	150/70	35/25	70/50	92
	1.0	16.4	75/40	125/100	26	52	25/10	50/35	25/10	35/25	50
2500	1.5	24.6	100/60	200/125	40	79	36/16	95/50	35/10	50/25	76
	1.75	28.6	125/75	225/125	41	81	50/25	95/50	35/16	50/25	78
	2.0	32.7	125/75	250/150	47	94	50/25	120/70	50/25	70/50	90
	2.5	41.0	175/100	350/200	60	119	95/35	150/95	50/25	95/50	114

ELECTRIC POWER REQUIREMENTS OF ESCALATOR

[By others]

Electric Power

Motor (kW)	Power Supply Capacity (kVA)	Power Supply Voltage (AC-3Phase)	C.B Rated Current (A)	Power Feeder (㎟) (from power room to escalator controller)					
				20m	40m	60m	80m	100m	120m
5.5	12	200V Class	50	10	16	25	35	35	35
		380V Class	30	6	6	10	16	16	16
		440V Class	30	6	6	6	10	10	16
7.5	14	200V Class	60	10	25	35	35	50	50
		380V Class	40	6	6	10	16	16	25
		440V Class	30	6	6	6	10	16	16
11	19	200V Class	100	16	25	35	50	50	95
		380V Class	50	6	10	16	25	25	25
		440V Class	40	6	6	10	16	16	25
15	25	200V Class	125	16	25	35	50	70	95
		380V Class	60	10	16	25	25	35	35
		440V Class	50	10	16	16	25	25	25
11×2	36	200V Class	175	25	50	95	120	120	120
		380V Class	100	10	16	25	35	35	50
		440V Class	75	6	16	25	25	35	35
15×2	52	200V Class	200	35	95	120	120	185	185
		380V Class	125	16	25	35	50	70	95
		440V Class	100	16	25	25	35	35	50
18.5×2	60	200V Class	300	50	95	120	185	185	240
		380V Class	150	16	35	50	70	95	95
		440V Class	125	16	25	35	35	50	70

Motor Capacity

	Escalator						Moving Walks			
Speed	0.5m/sec						0.5m/sec			
Inclination	30 °			35 °			0 °		12 °	
Nominal Width	1200	1000	800	1200	1000	800	1200	1000	1200	1000
Motor Rating(kw)	Maximum Rise(m)									
5.5	3.5	3.9	5.9	3.5	3.9	5.9	54	72	2.4	3.4
7.5	4.7	5.4	8.1	4.7	5.4	6.0	74	98	3.5	4.8
11	7.0	7.9	10.5	6.0	6.0		100	100	5.3	7.3
15	8.0	11.3	13.0	-	-	-	-	-	7.0	9.0
11×2	12.4	-	-	-	-	-	-	-	9.0	-

- ▲ Notes : 1. These are based on the commercial type. Consalt Hyundai for the public type.
2. In case of the inclination of 0°, maximum rise means maximum floor opening AA.
3. In case of outdoor, please contact us for heater capacity(kw)

Lighting Power

Balustrade Type	Vertical Rise (m)	Power Supply Capacity (kVA)	Power Supply Voltage (AC-1Phase)	C.B Rated Current (A)	Power Feeder(㎟)					
					20m	40m	60m	80m	100m	120m
With Handrail Lighting (BTL Type)	1.83-4.27	1.4{3}	100-110	30{40}	6	10	16			
	4.28-7.6	2{6}		40{70}	6	10	16	25		
	1.83-4.27	1.4{3}	200-265	20	4		6	10		
	4.28-7.6	2{6}		20{40}	4		6	10		
Without Handrail Lighting	-	1.2	100-110	20	25	4	6		10	
			200-265		25	4	6		10	

- ▲ Notes : 1. Consult Hyundai when the rise over 7600mm.
2. The capacity shown by () mark shall be applied to moving walks.