



PLANNING GUIDE

Moving solutions with safety, reliability and efficiency

ELEVATORS

MOVING WALKS

ESCALATORS

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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.

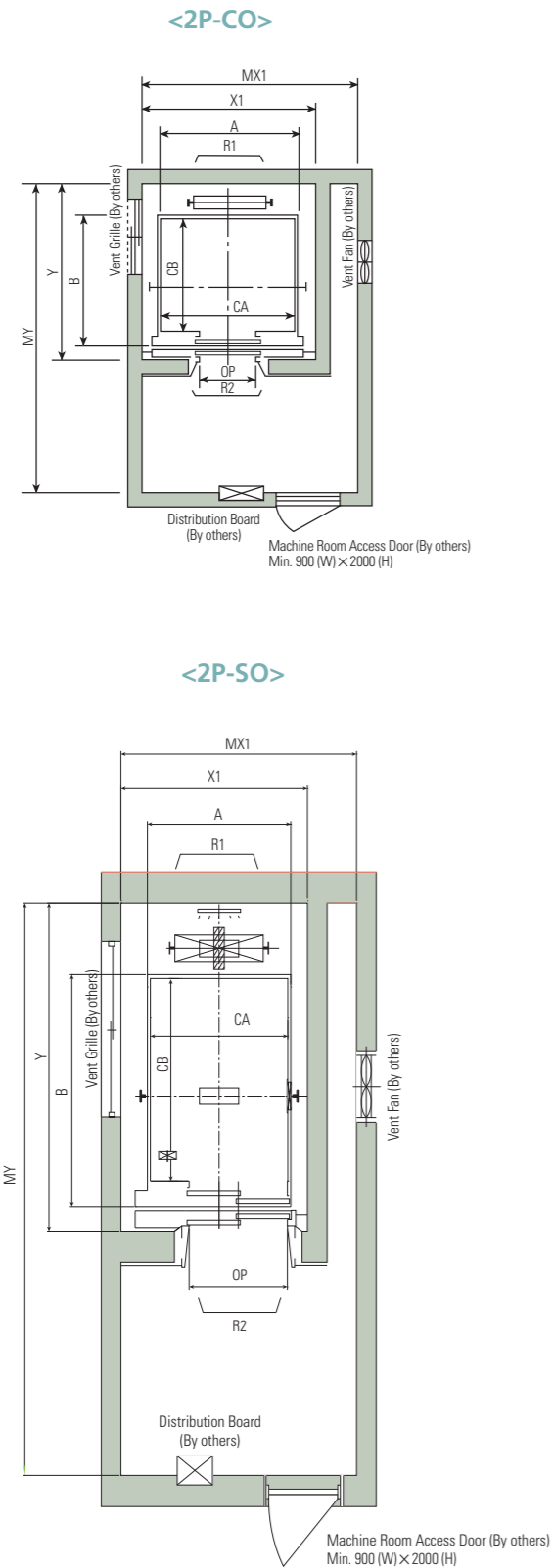
Kinds of Building	Usage	Control	Speed (m/sec)	Operation
Low-Rise Apartment Low-Rise Building	Passenger Observation Hospital	Gearless (*include MRL)	1.0	1 Car : Selective Collective 2 Cars : Duplex Selective Collective
Mid-Rise Apartment Mid-Rise Building	Passenger Observation Hospital	Gearless (*include MRL)	1.0~2.5 1.0~1.75	3-8 Cars : Group Supervisory
High-Rise Apartment High-Rise Building	Passenger	Gearless	3.0~18	1 Car : Selective Collective 2 Cars : Duplex Selective Collective 3-8 Cars : Group Supervisory
Parking Building	Automobile	General Traction	0.5, 0.75	Single Automatic
Factory, Warehouse	Freight	General Traction	0.5, 0.75, 1.0 0.33, 0.5, 0.75	Single Automatic 1 Car : Selective Collective 2 Cars : Duplex Selective Collective

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

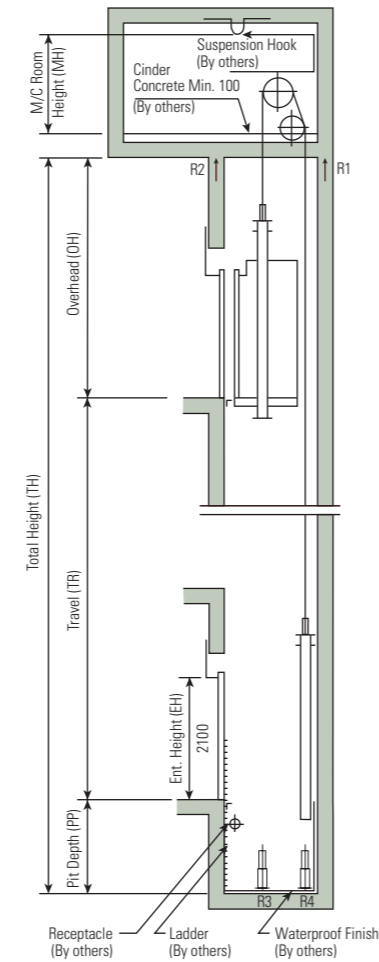
PASSENGER ELEVATORS

LUXEN Gearless Elevators | 1.0~2.5m/sec

Plan of Hoistway & Machine Room



Section of Hoistway



Standard Dimensions

[Manufacturer Standard]

(Unit : mm)

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
1.0	6	450	2P-CO	800	1400 × 850	1800 × 1450	2100 × 3150	3600	2000	5400	4500
	8	550		800	1400 × 1030	1800 × 1630	2100 × 3350	4050	2250	6000	4900
	9	600		800	1400 × 1100	1800 × 1700	2100 × 3400	4100	2450	6300	5100
	10	700		800	1400 × 1250	1800 × 1850	2100 × 3550	4200	2700	6800	5400
	11	750		800	1400 × 1350	1800 × 1950	2100 × 3650	4550	2800	7100	5600
	13	900		900	1600 × 1350	2050 × 2000	2350 × 3700	5100	3750	8100	6300
1.5	15	1000		900	1600 × 1500	2050 × 2150	2350 × 3850	5450	4300	8600	6600
	17	1150		1000	1800 × 1500	2350 × 2200	2650 × 3900	6600	5100	11000	8700
	17	1150		1100	2000 × 1350	2550 × 2050	2850 × 3750	7800	6000	12200	9500
1.75	20	1350		1000	1800 × 1700	2350 × 2400	2650 × 4100	8500	6800	13600	10400
	24	1600		1100	2000 × 1500	2550 × 2200	2850 × 3900	9500	7500	14500	11000
2.0	13	900		900	1600 × 1350	2250 × 2100	2750 × 4100	12030	6630	9000	7500
	15	1000		900	1600 × 1500	2250 × 2250	2750 × 4250	12810	6950	9400	8000
	17	1150		1000	1800 × 1500	2450 × 2250	2950 × 4250	13080	7100	11000	8700
	20	1350		1100	2000 × 1350	2650 × 2100	3150 × 4100	14350	7650	12200	9500
2.5	20	1350		1000	1800 × 1700	2450 × 2450	2950 × 4450	15100	8100	13600	10400
	24	1600		1100	2000 × 1500	2650 × 2250	3150 × 4250	15100	8100	13600	10400
	24	1600		1100	2000 × 1750	2650 × 2500	3150 × 4500	15100	8100	13600	10400

[EN81]

(Unit : mm)

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
1.0	6	450	2P-CO	700	1100 × 1100	1600 × 1700	1900 × 3400	3600	2000	5400	4500
	7	550		800	1300 × 1100	1800 × 1700	2100 × 3400	4050	2250	6000	4900
	8	630		800	1400 × 1100	1800 × 1700	2100 × 3400	4100	2450	6300	5100
	9	700		800	1400 × 1250	1800 × 1850	2100 × 3550	4200	2700	6800	5400
	10	800		800	1400 × 1300	1800 × 1950	2100 × 3650	4550	2800	7100	5600
	12	900		900	1600 × 1300	2050 × 1950	2350 × 3650	5100	3750	8100	6300
1.5	13	1000		900	1600 × 1400	2050 × 2050	2350 × 3750	5450	4300	8600	6600
	15	1150		1000	1800 × 1400	2350 × 2100	2650 × 3800	6600	5100	11000	8700
	15	1150		1100	2000 × 1300	2550 × 2000	2850 × 3700	7800	6000	12200	9500
1.75	18	1350		1000	1800 × 1600	2350 × 2300	2650 × 4000	8500	6800	13600	10400
	21	1600		1100	2000 × 1700	2550 × 2400	2850 × 4100	9500	7500	14500	11000
2.0	12	900		900	1600 × 1300	2150 × 2050	2650 × 4050	12030	6630	9000	7500
	13	1000		900	1600 × 1400	2150 × 2150	2650 × 4150	12800	6950	9400	8000
	15	1150		1000	1800 × 1400	2350 × 2150	2850 × 4150	13080	7100	11000	8700
	18	1350		1100	2000 × 1300	2550 × 2050	3050 × 4050	14350	7650	12200	9500
2.5	18	1350		1000	1800 × 1600	2400 × 2350	2900 × 4350	15100	8100	13600	10400
	21	1600		1100	2000 × 1500	2600 × 2250	3100 × 4250	15100	8100	13600	10400
	21	1600		1100	2000 × 1700	2600 × 2450	3100 × 4450	15100	8100	13600	10400

[EN81]

(Unit : mm)

Speed (m/sec)	Capacity		Opening Type	Opening Size (mm)	C.WT Drop	Car Size (mm)	Hoistway Size (mm)	Machine Room Size (mm)	M/C Room Reaction (kg)		Pit Reaction (kg)	
	Persons	kg							MR1	MR2	PR1	PR2
1.0	6	450	2P-SO	800	Rear	1100 × 1100	1550 × 1800	1850 × 3500	3600	2000	5400	4500
	7	550		800	Rear	1100 × 1300	1550 × 2000	1850 × 3700	4050	2250	6000	4900
	8	630		800	Side	1100 × 1400	1850 × 1850	2150 × 3550	4100	2450	6300	5100
	9	700		800	Side	1200 × 1400	1950 × 1850	2250 × 3550	4200	2700	6800	5400
	10	800		800	Side	1300 × 1400	2100 × 2000	2400 × 3700	4550	2800	7100	5600
	12	900		900	Side	1300 × 1600	2100 × 2100	2400 × 3800	5100	3750	8100	6300
1.5	13	1000		900	Side	1100 × 2100	1900 × 2550	2200 × 4250	5450	4300	8600	6600
	15	1150		1000	Rear	2100 × 1100	2550 × 1850	2850 × 3550	6600	5100	11000	8700
	15	1150		1100	Side	1200 × 2200	2100 × 2650	2400 × 4350	7800	6000	12200	9500
1.75	18	1350		1000	Side	1300 × 2300	2250 × 2750	2550 × 4450	8500	6800	13600	10400
	21	1600		1200	Side	1400 × 2400	2350 × 2850	2650 × 4550	9500	7500	14500	11000
2.0	12	900		900	Side	1300 × 1600	2250 × 2100	2750 × 4100	12030	6630	9000	7500
	13	1000		900	Side	1100 × 2100	2000 × 2550	2500 × 4550	12800	6950	9400	8000
	15	1150		1000	Rear	2100 × 1100	2550 × 1900	3050 × 3900	13080	7100	11000	8700
	18	1350		1100	Side	1200 × 2200	2100 × 2650	2600 × 4650	14350	7650	12200	9500
2.5	18	1350		1000	Side	1300 × 2300	2300 × 2750	2800 × 4750	15100	8100	13600	10400
	21	1600		1200	Side	1400 × 2400	2400 × 2850	2900 × 4850	15100	8100	13600	10400

- ▲ Notes : 1. Above hoistway dimensions are based on 15-storied buildings. For application to over 16-storied buildings, they shall be at least 5% larger considering the sloping of the hoistways.
- 2. Rail Bracket Pitch: Applied with 2,000mm for 2.0m/s(Travel 110~150m) & 2.5m/s

Head & Pit Depth

(Unit : mm)

Speed(m/sec)	Load(kg)	450-1150(kg)		1350-1600(kg)		M/C Room Height (MH)
		Overhead (OH)	Pit (PP)	Overhead (OH)	Pit (PP)	
1.0		4350	1250	4350	1350	2200
1.5		4500	1300	4500	1400	2400
1.75		4550	1350	4550	1450	2400
2.0		4700	1900	4700	2000	2600
2.5		5100	2200	5100	2200	2600

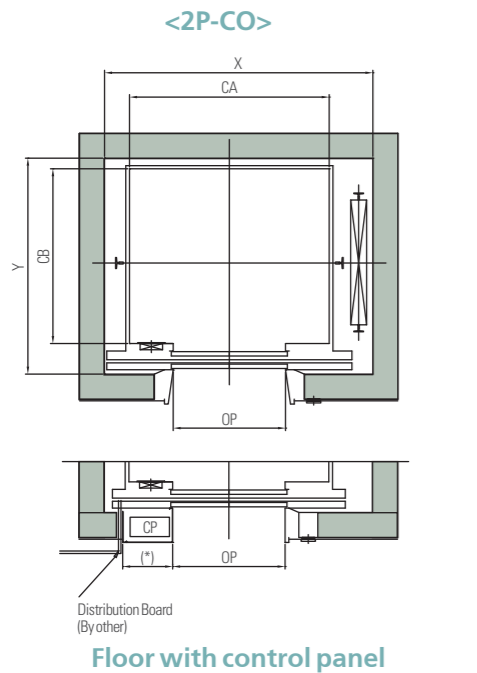
- Notes : 1. Above dimensions are applied for car height 2500mm
- 2. Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner (if necessary) and humidity below 90%.
- 3. M/C Room Height shall increase 200mm in case of the traction machine with double isolation pad.
- 4. If the height of floor is over 11m, please consult Hyundai as to the needs for emergency exit.

PASSENGER ELEVATORS

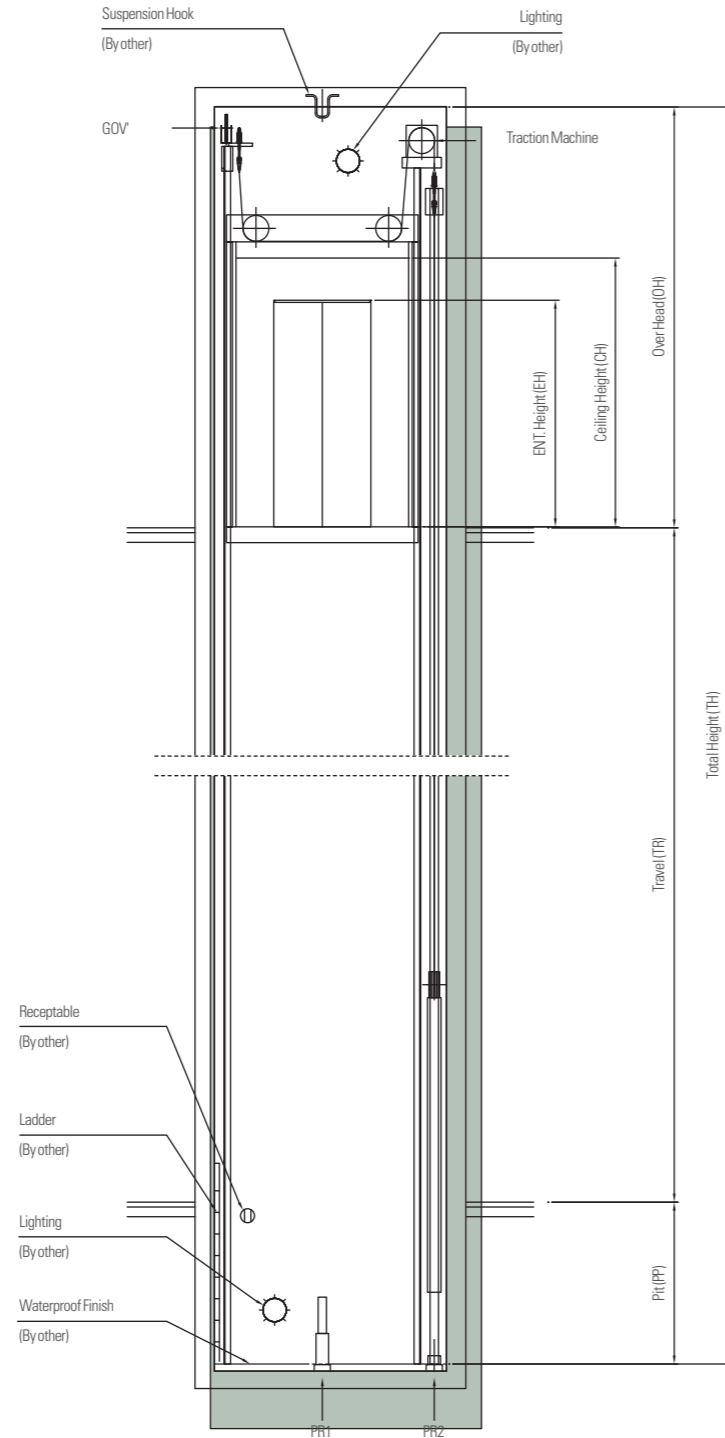
MRL(Machine-Room-less)New Yzer Elevator

NEWYZER'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)



Section of Hoistway



▲ Notes :

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

Standard Dimensions and Reactions

	Speed (m/sec)	Capacity		Opening Type	Clear Opening OP	Car Size (mm) CA × CB	Hoistway Size (mm) X × Y	Control Panel Box (mm) CP		PIT Reaction (Kg) PR1 PR2	
		Persons	Kg					CP	PR1	PR2	
Center	Manufacturer Standard	1.0 1.5 1.75	8	550	2P-CO	800	1250 × 1150	2050 × 1500	430	6500	5400
			9	600		800	1250 × 1240	2050 × 1600		6800	5600
			10	700		800	1250 × 1350	2050 × 1700		7300	5900
			11	750		800	1250 × 1450	2050 × 1800	7600	6100	
			13	900		900	1600 × 1350	2300 × 1700	8400	6600	
			15	1000		900	1600 × 1400	2300 × 1750	8900	6900	
			17	1150		1000	1800 × 1400	2400 × 1750	11800	9500	
			20	1350		1000	1800 × 1600	2500 × 2200	13400	10700	
			24	1600		1100	2000 × 1700	2700 × 2250	14200	11000	
	EN81	1.0 1.5 1.75	6	450	2P-CO	700	1100 × 1100	1700 × 1450	430	6500	5400
			7	550		800	1100 × 1300	1800 × 1650		6500	5400
			8	630		800	1100 × 1400	1800 × 1750		6800	5600
			9	700		800	1250 × 1400	1850 × 1750	7300	5900	
			10	800		800	1300 × 1400	1900 × 1750	7600	6100	
			12	900		900	1600 × 1300	2200 × 1650	8400	6600	
			13	1000		900	1600 × 1400	2200 × 1750	8900	6900	
			15	1150		1000	1800 × 1400	2400 × 1750	11800	9500	
			18	1350		1000	1800 × 1600	2500 × 2200	13400	10700	
Side	EN81	1.0 1.5 1.75	6	450	2P-SO	800	1100 × 1100	1700 × 1550	430	6250	5300
			7	550		800	1100 × 1300	1700 × 1700		6500	5400
			8	630		800	1100 × 1400	1700 × 1800		6800	5600
			9	700		800	1200 × 1400	1800 × 1800	7300	5900	
			10	800		800	1300 × 1400	1900 × 1800	7600	6100	
			12	900		900	1300 × 1600	1900 × 2000	8400	6600	
			13	1000		900	1100 × 2100	1700 × 2500	8900	6900	
			15	1150		1000	1200 × 2200	1800 × 2650	11800	9500	
			18	1350		1100	1300 × 2300	2000 × 2750	13400	10700	
			21	1600		1200	1400 × 2400	2100 × 2850	14200	11000	

- For dimensions other than standard specifications, please contact us.
- The above hoistway dimensions represent minimum requirements. In the event of a discrepancy in construction, demolition and rebuilding shall be performed by other contractors.
- When the height between elevator hall sills exceeds 11m, an emergency exit or battery device must be applied to the hoistway. For inquiries, please consult with us.
- The double entrance type can be used in certain cases only. For inquiries about hoistway size, please consult with us.
- In case the emergency stop equipment is applied to the counter weight, please contact us for inquiries.
- If hoistway has a steel frame structure, components must have a value equal to or greater than the reaction force on rails. Please contact us for inquiries.

Overhead & Pit Depth

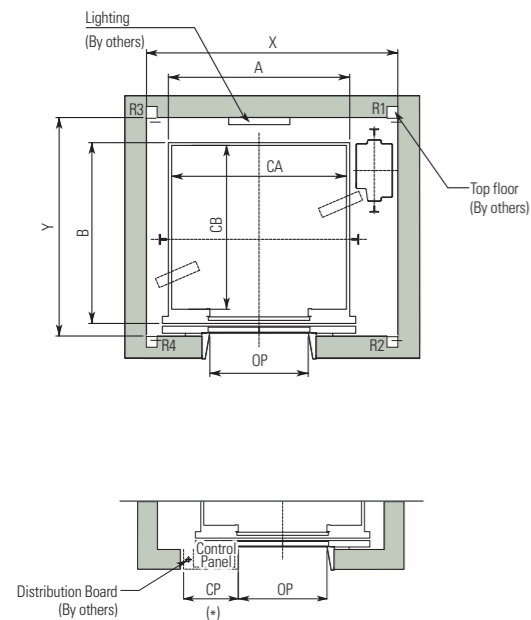
Load (kg)	Speed (m/sec)	Overhead (OH)	Pit (PP)
450 ~ 1150	1.0	CH+1300	1100
	1.5	CH+1400	1300
	1.75	CH+1500	1350
1350 ~ 1600	1.0	CH+1400	1200
	1.5	CH+1600	1350
	1.75	CH+1700	1400

- Above dimensions are applied base on standard car size & opening size. For other applicable dimensions, please contact us.
- In case of 60m/min, Pit depth should be increased 200mm to apply the compensation device. When travel height is over 25m.
- When non-standard capacities and dimensions are required to meet the local code, Please consult us.

PASSENGER ELEVATORS

MRL(Machine-Room-less) Elevators | 1.0~2.5m/sec

Plan of Hoistway & Machine Room (550~2500kg)

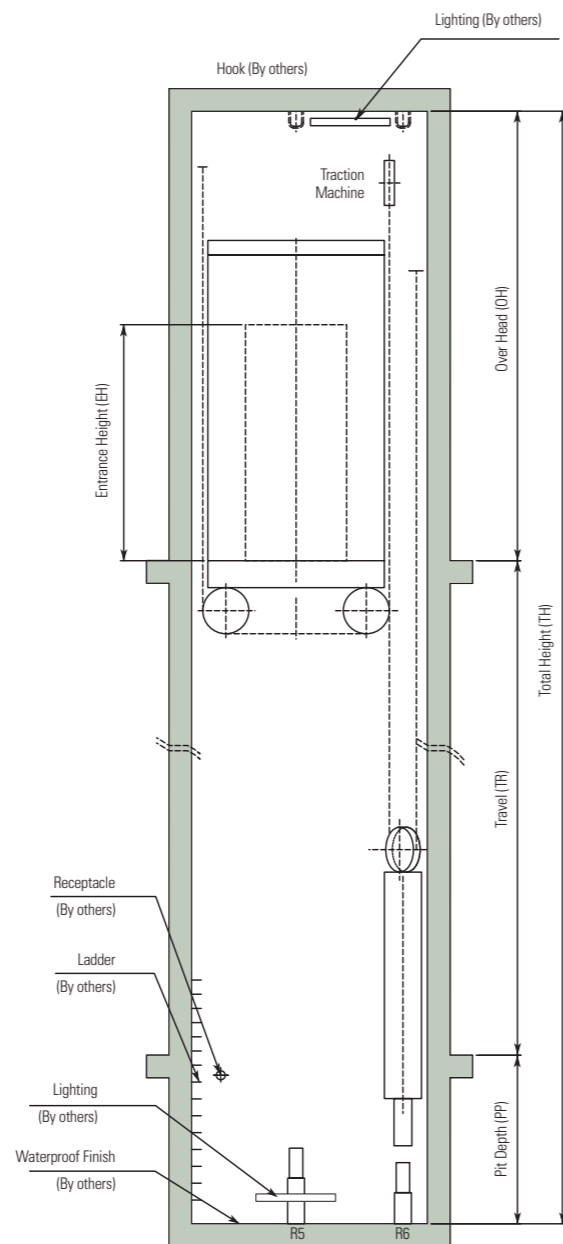


Floor with control panel

▲ 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%

Section of Hoistway



Standard Dimensions (550~2500kg)

Speed (m/sec)	Capacity		Clear Opening OP	Car CA × CB	Hoistway		Motor (kW)	M/C Room Reaction (kg)						Pit Reaction (kg)	
	Persons	kg			X	Y		R1	R2	R3	R4	R5	R6		
1.0	8	550	CO 800	1300 × 1100	2050	1700	3.4	4000	2100	600	1500	7000	1600		
1.5															
1.75															
1.0	9	600	CO 800	1300 × 1190	2050	1800	3.7	4100	2300	600	1600	7300	1600		
1.5															
1.75															
1.0	10	700	CO 800	1300 × 1300	2050	1800	4.3	4500	2300	650	1700	7800	1600		
1.5															
1.75															
1.0	11	750	CO 800	1300 × 1400	2050	1850	4.6	4800	2300	700	1750	8100	1700		
1.5															
1.75															
1.0	13	900	CO 900	1500 × 1400 1600 × 1350	2200 2300	1850	5.7	5100	2500	750	1800	9200	1900		
1.5															
1.75															
2.0	15	1000	CO 900	1600 × 1400	2300 2500	1900 (2100)	6.2	5400	2700	800	1900	9800	2000		
1.5															
1.75															
2.0	17	1150	CO 1000	1800 × 1400	2600 2700	2100	7.1	6300	3400	900	2100	12500	2500		
1.5															
1.75															
2.0	20	1350	CO 1000	1800 × 1600	2650 2700	2400	8.3	7700	4300	1100	2500	13900	3000		
1.5															
1.75															
2.0	24	1600	CO 1100	2000 × 1700	2850 2900	2450	9.9	8200	4600	1200	2600	15200	3200		
1.5															
1.75															
2.0	27	1750	SO 1200	1600 × 2300	2480 2900	2850	12.5	8300	4900	1200	2700	17800	3300		
1.5															
1.75															
1.0	30	2000	CO 1200	2100 × 1900	3000 3050	2550	11.5	8600	4300	1300	2900	16700	2800		
1.5															
1.75															
1.0	38	2500	4PCO 1400	2200 × 2200	3300 3050	3050	12.3	9100	4700	1300	3100	19800	3300		
1.5															
1.75															

- ▲ Notes :
1. When non-standard capacities and dimensions (including fire protection doors) are required to meet the local code, please consult Hyundai.
 2. The minimum hoistway dimensions are shown on the above table. Therefore, some allowances should be made considering the sloping of the hoistways.
 3. If the height of floor is over 11m, please consult Hyundai as to the needs for emergency exit.
 4. Above dimensions are applied in case the door is standard. In case fire protection door that the clear opening is over 1000mm is applied, hoistway size for 1car should be applied above X1 dimension plus 100mm.
 5. In case the emergency stop switch is applied to the counter weight, consult Hyundai.
 6. When face to face arrangement is required, partitioning work for hoistway is required. (EN81)

(Unit : mm)

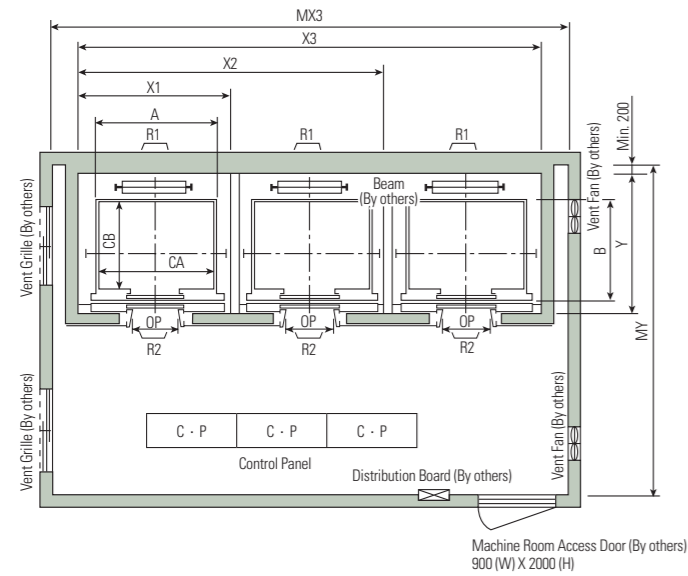
Persons	Speed (m/sec)	Overhead (OH)	Pit (PP)	Control Panel (CP)(*)
8~17	1.0	3800	1500	505
	1.5	3900	1800	505
	1.75	4000	2100	505
13~17	2.0	4300	2200	505
	2.5	5400	2400	630
	1.0	4200	1500	505
20~24	1.5	4300	1800	630
	1.75	4500	2100	630
	2.0	4800	2200	630
	2.5	5100	2400	630
27~30	1.0	4400	1750	505
	1.5	4500	1900	630
	1.75	4600	2100	630
38	1.0	5000	1750	630
	1.5	5100	1900	630
	1.75	5300	2100	630

- ▲ Notes :
1. Above dimensions are applied for car height of 2500mm (car internal height is 2300mm). For other applicable dimensions, consult Hyundai.
 2. If the hoistway is glass, consult Hyundai as it needs to finish laminated glass. (EN81)
 3. When non-standard capacities and dimensions are required to meet the local code, please consult Hyundai Elevator.

HIGH-SPEED/ULTRA-HIGH-SPEED ELEVATORS

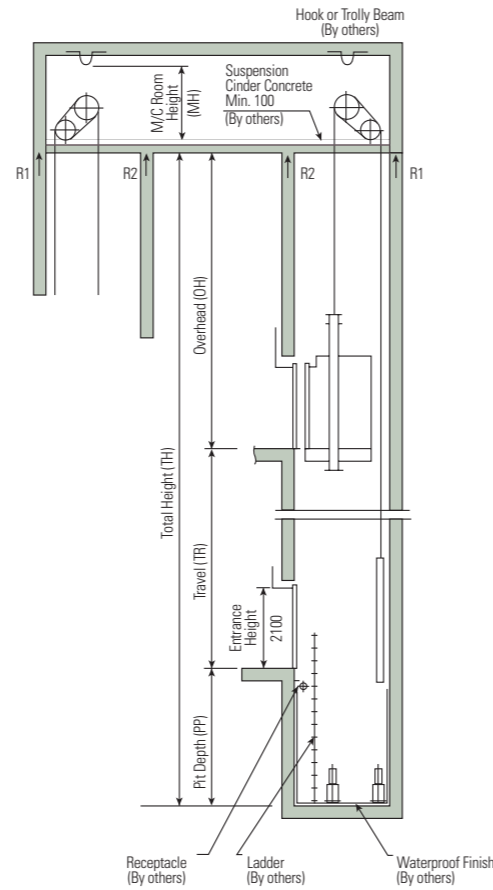
THE EL/ I-XEL Gearless Elevators | 3~10m/sec

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

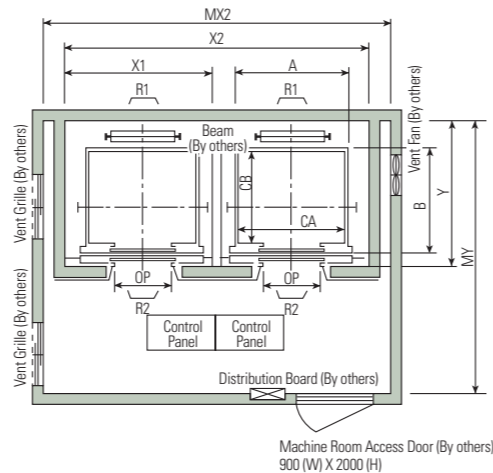
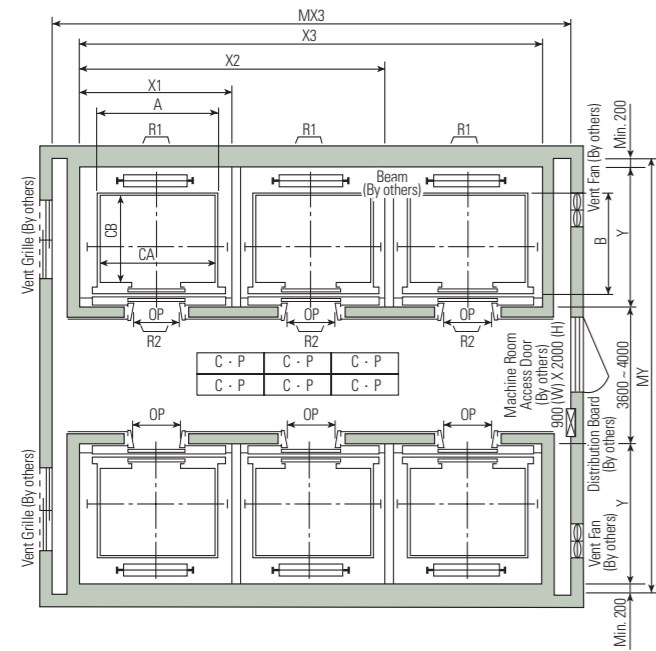


▲ Notes : Temperature should be maintained below 40°C and humidity below 90%, with installation of a ventilating fan, ventilating grille, and air conditioner (if necessary). Toxic gas or dust should not be generated.

Section of Hoistway



Face-to-Face Arrangement



Standard Dimensions & Reactions

(Unit : mm)

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					OP	CA × CB	X1 × Y	MX1 × Y	R1	R2	PR1
3.0	13	900	2P-CO	900	1600×1350	2300×2150	2800×4400	12030	6650	13100	11300		
	15	1000		900	1600×1500	2300×2300	2800×4550	12800	6950	14600	12600		
	17	1150		1000	1800×1500	2500×2300	3000×4550	13080	7150	17200	14900		
	24	1600		1000	1800×1700	2500×2500	3000×4750	14350	7650	18800	16100		
3.5 4.0	15	1000	2P-CO	1100	2000×1750	2700×2550	3200×4800	15100	8100	21000	17100		
	17	1150		900	1600×1500	2300×2300	2800×4550	12800	7800	14600	12600		
	20	1350		1000	1800×1500	2500×2300	3000×4550	14100	8000	17200	14900		
3.0	24	1600	2P-SO	1100	2000×1750	2700×2550	3200×4800	15700	8100	21000	17100		
	15	1000		900	1300×1600	2400×2250	2900×4500	12030	6650	13100	11300		
	17	1150		900	1100×2100	2200×2550	2700×4800	12800	6950	14600	12600		
	20	1350		1000	1200×2200	2300×2650	2800×4900	13080	7150	17200	14900		
3.5 4.0	24	1600	2P-SO	1200	1400×2400	2500×2850	3000×5100	15100	8100	21000	17100		
	15	1000		900	1300×2300	2400×2750	2900×5000	14350	7650	18800	16100		
	17	1150		1000	1100×2100	2300×2550	2800×4800	12800	7800	14600	12600		
	20	1350		1000	1200×2200	2400×2650	2900×4900	14100	8000	17200	14900		
3.0	24	1600	2P-SO	1100	1300×2300	2500×2750	3000×5000	15100	8050	18800	16100		
	24	1600		1200	1400×2400	2600×2850	3100×5100	15700	8100	21000	17100		

▲ Notes : 1. 3.0~4.0 m/s: Have issue for the PP dimension(Span M.Sheave to D.Pulley) → Car Pulley requested to rotate 90 degree
2. Rail Bracket Pitch: Applied with 2,000mm for 3.0m/s

(Unit : mm)

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	X2	X3 × Y	MX1	MX2	MX3 × Y	R1	R2	PR1	PR2
5.0 6.0	17	1150	2P-CO	1000	1800×1500	5100	7700×2450	5800	8500×5900	17500	13000				
	20	1350		1000	1800×1700	5100	7700×2650	5800	8500×6000	17800	13200				
	24	1600		1100	2000×1500	5500	8300×2450	6200	9100×5900	18100	13500				
7.0~ 10.0	17	1150	2P-CO	1100	2000×1750	5500	8300×2650	6500	9100×6300						
				1100	2150×1600	5800	8750×2500	6500	9400×6200						
	20	1350		1000	1800×1500	5400	7900×2500	6200	8900×6000						
	24	1600		1100	2000×1500	5900	8750×2500	6700	9500×6000						
7.0~ 10.0	24	1600	2P-CO	1100	2000×1750	5900	8750×2750	6700	9500×6300						
				1100	2000×1750	5900	8750×2750	6700	9500×6300						

▲ Notes : 1. The minimum hoistway dimensions are shown on the above table. Therefore, some allowances should be made considering the sloping of the hoistways.
2. Above dimensions are based on center opening doors. For applicable dimensions with side opening doors, consult Hyundai.
3. For elevators with more than 28 persons capacity, consult Hyundai.
4. When non-standard capacities and dimensions are required to meet the local code, consult Hyundai.
5. The capacity in persons is calculated at 65kg/person. (EN81=75kg/person)
6. Above dimensions are applied in case the door is standard. In case fire protection door that the clear opening is over 1000mm is applied, hoistway size for 1 car should be applied above X1 dimension plus 100mm.
7. The maximum speed capabilities of Hyundai is 18m/sec. Consult Hyundai.

Overhead & Pit Depth

(Unit : mm)

Speed (m/sec)	Overhead (OH)	Pit (PP)	M/C Room Height (MH)	Speed (m/sec)	Overhead (OH)	Pit (PP)	M/C Room Height (MH)
3.0	6000	2700	2500	7.0	8500	6000	3200
3.5	6400	3200	2800	8.0	9500	6400	3500
4.0	7100	3850	2800	9.0	9750	8800	3500
5.0	8000	4200	3000	10.0	10000	9000	3500
6.0	8300	4300	3000				

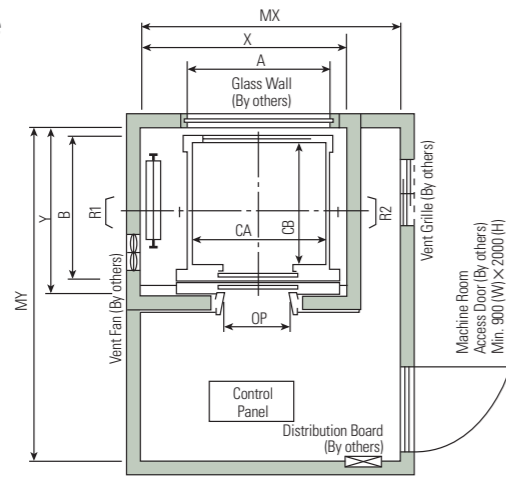
▲ Notes : 1. The above table shows minimum figures. Therefore, some allowances should be made considering errors that may occur during construction.
2. In case car height is over 2800mm, overhead should be applied above dimension plus additional height.

OBSERVATION ELEVATORS

LUXEN Gearless Elevators | 1.0~1.75m/sec

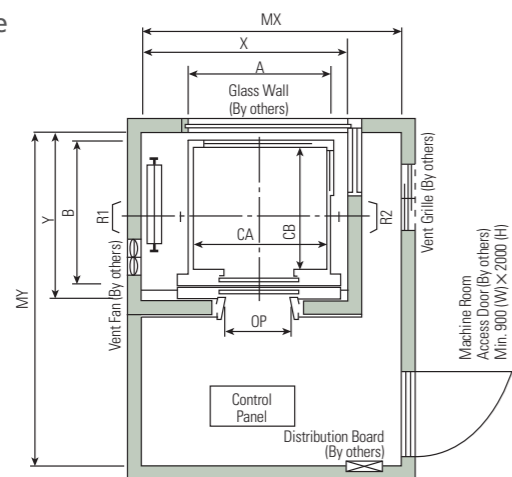
Plan of Hoistway & Machine Room

1 Side Type

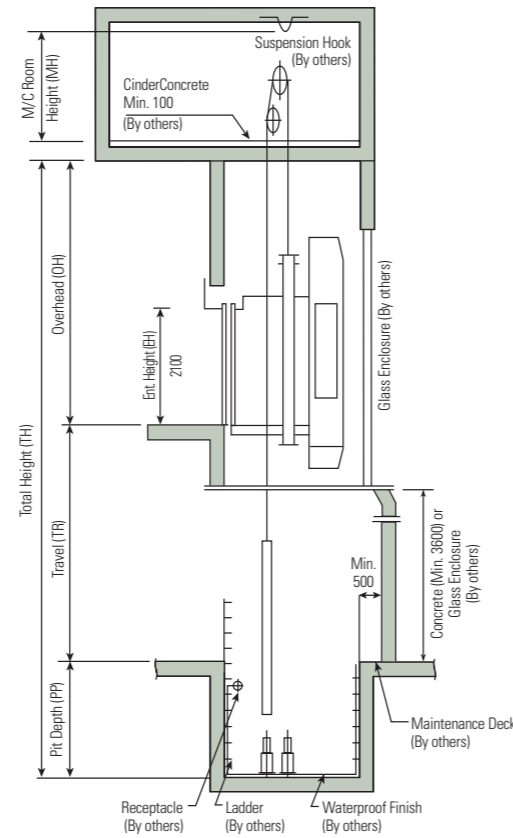


▲ Notes: Machine room temperature should be maintained below 40°C with ventilating fan and/or air conditioner (if necessary) and humidity below 90%.

2 Side Type



Section of Hoistway



Standard Dimensions & Reactions

(Unit : mm)

Type	Speed (m/sec)	Capacity		Clear Opening OP	Car size CA × CB	Hoistway size X × Y	M/C Room size MX × MY		M/C Room Reaction (kg)		Pit Reaction (kg)	
		Persons	kg				R1	R2	R3 (Car)	R4 (CWT)		
1-Side Observation	1.0 1.5 1.75	6	450	800	1400×850	2200×1400	2600×2900	5000	2700	6650	5750	
		8	550	800	1400×1030	2200×1500	2600×3000	5350	3000	7300	6200	
		9	600	800	1400×1100	2200×1600	2600×3100	5550	3100	7600	6400	
		10	700	800	1400×1250	2200×1750	2600×3200	5900	3300	8200	6800	
		11	750	800	1400×1350	2200×1850	2600×3350	6100	3400	8500	7000	
		13	900	900	1600×1350	2400×1850	3000×3350	6800	3750	9550	7750	
		15	1000	900	1600×1500	2400×2000	3000×3500	7100	3900	10100	8150	
		17	1150	1000	1800×1500	2850×2000	3500×3500	8900	5300	12800	10500	
2-Side Observation	1.0 1.5 1.75	8	550	800	1400×1030	2200×1500	2600×3000	5400	3050	7500	6400	
		9	600	800	1400×1100	2200×1600	2600×3100	5600	3120	7800	6600	
		10	700	800	1400×1250	2200×1750	2600×3200	5950	3350	8400	7000	
		11	750	800	1400×1350	2200×1850	2600×3350	6100	3450	8700	7200	
		13	900	900	1600×1350	2400×1850	3000×3350	6850	3750	9750	7950	
		15	1000	900	1600×1500	2400×2000	3000×3500	7150	3930	10350	8350	
		17	1150	1000	1800×1500	2850×2000	3500×3500	9000	5400	13000	10700	
		20	1350	1000	1800×1700	2850×2200	3500×3700	9100	6700	14250	11600	
24	1600	1100	2000×1750	3050×2250	3700×3750	9950	7100	15700	12500			

▲ Notes: 1. Above dimensions are based on center opening doors. For applicable dimensions with side opening doors. Consult Hyundai.
2. The minimum hoistway dimensions are shown on the above table. Therefore, some allowances should be made considering the sloping of the hoistwats.
3. When non-standard capacities and dimensions are required to meet the local code, consult Hyundai.
4. The capacity in person is calculated at 65kg.(EN81=75kg/person)

Overhead & Pit Depth

(Unit : mm)

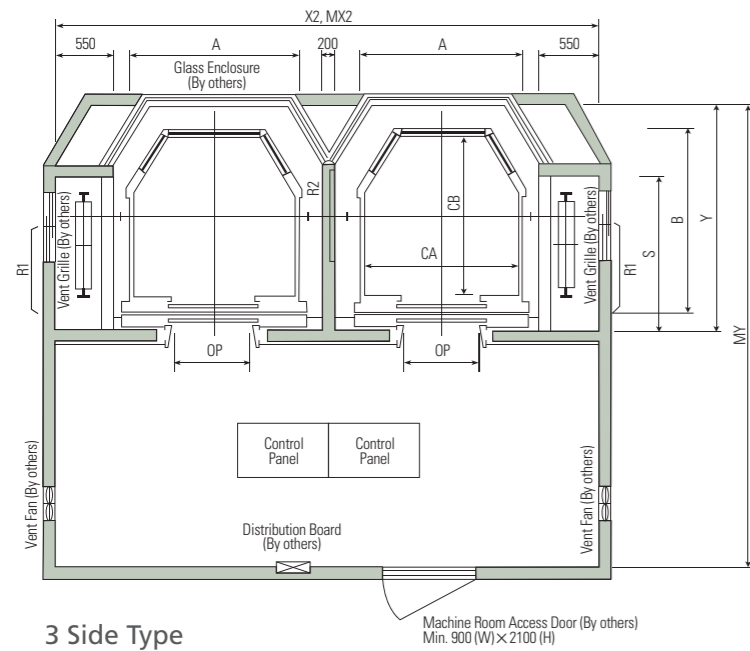
Speed(m/sec)	Load (kg)	450~1600 (kg)		M/C Room Height (MH)
		Overhead (OH)	Pit (PP)	
1.0		4350	1750	2200
1.5		4500	1850	2400
1.75		4550	1900	2400

▲ Notes: The minimum machine room height should be 2800mm in case of the traction machine with double isolation pad.

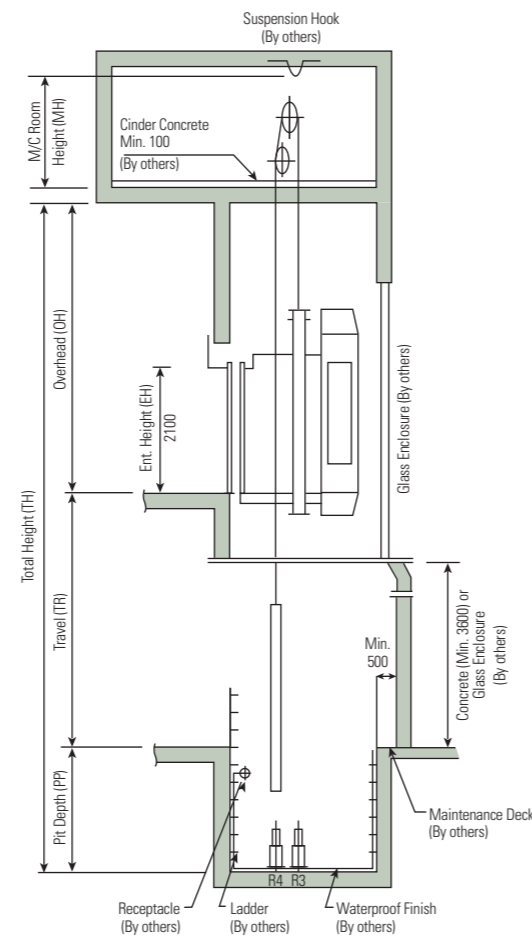
OBSERVATION ELEVATORS

LUXEN Gearless Elevators | 1.0~1.75m/sec

Plan of Hoistway & Machine Room



Section of Hoistway



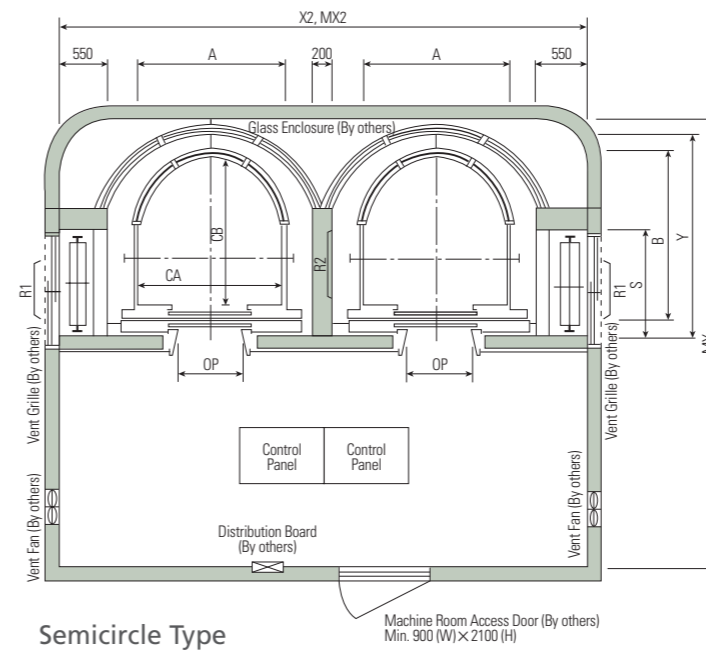
Overhead & Pit Depth

(Unit : mm)

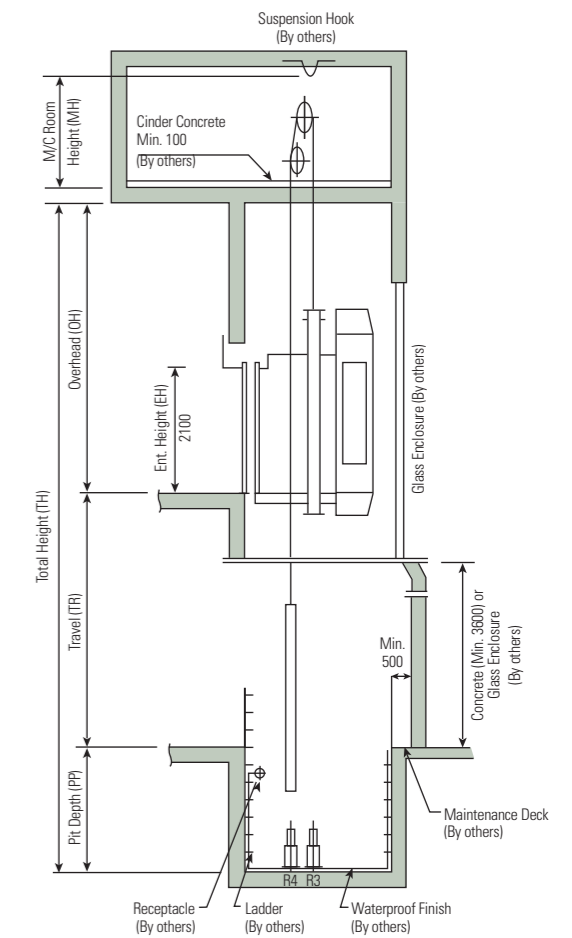
Load (kg)	450~1600 (kg)		M/C Room Height (MH)
	Overhead (OH)	Pit (PP)	
1.0	4350	2000	2200
1.5	4500	2100	2400
1.75	4550	2200	2400

- ▲ Notes : 1. The minimum hoistway dimensions are shown on the above table. Therefore, some allowances should be made considering the sloping of the hoistways.
- 2. The minimum machine room height should be 2800mm in case of the traction machine with double isolation pad.
- 3. Above dimensions are changeable according to the car exterior design.

Plan of Hoistway & Machine Room



Section of Hoistway



Overhead & Pit Depth

(Unit : mm)

Load (kg)	450~1600 (kg)		M/C Room Height (MH)
	Overhead (OH)	Pit (PP)	
1.0	4350	2000	2200
1.5	4500	2100	2400
1.75	4550	2200	2400

- ▲ Notes : 1. The minimum hoistway dimensions are shown on the above table. Therefore, some allowances should be made considering the sloping of the hoistways.
- 2. The minimum machine room height should be 2800mm in case of the traction machine with double isolation pad.
- 3. Above dimensions are changeable according to the car exterior design.

Standard Dimensions & Reactions

(Unit : mm)

Speed (m/sec)	Capacity		Clear Opening	Car	Hoistway				M/C Room			M/C Room Reaction (kg)			Pit Reaction (kg)	
					1Car	2Cars	Depth	1Car	2Cars	Depth	R1	R2	R2	R3	R4	
	Persons	kg	OP	CA × CB	X1	X2	Y	S	MX1	MX2	MY	R1	R2 (1Car)	R2 (2Cars)	R3	R4
1.0	11	750	800	1400×1400	2450	5100	2000	1200	2900	5100	3500	6150	3450	6900	8700	7150
	13	900	900	1600×1450	2650	5500	2050	1350	3300	5500	3550	6900	3750	7500	9700	7900
1.5	15	1000	900	1600×1570	2650	5500	2200	1350	3300	5500	3700	7200	3950	7900	10300	8300
	17	1150	1000	1800×1580	2850	6100	2200	1600	3500	6100	3700	9100	5450	10900	13150	10900
1.75	20	1350	1000	1800×1800	2850	6100	2400	1600	3500	6100	3900	9150	6750	13500	14550	11850
	24	1600	1100	1800×2000	2850	6100	2600	1600	3500	6100	4100	10000	7150	14300	16100	12900

- ▲ Notes : 1. Above dimensions are based on center opening doors. For applicable dimensions with side opening doors, consult Hyundai.
- 2. Consult Hyundai if the capacity is less than 11 persons.

Standard Dimensions & Reactions

(Unit : mm)

Speed (m/sec)	Capacity		Clear Opening	Car	Hoistway				M/C Room			M/C Room Reaction (kg)			Pit Reaction (kg)	
					1Car	2Cars	Depth	1Car	2Cars	Depth	R1	R2	R2	R3	R4	
	Persons	kg	OP	CA × CB	X1	X2	Y	S	MX1	MX2	MY	R1	R2 (1Car)	R2 (2Cars)	R3	R4
1.0	11	750	800	1400×1480	2450	5100	2000	1200	2900	5100	3500	6180	3450	6900	8700	7150
	13	900	900	1600×1500	2650	5500	2050	1350	3300	5500	3550	6930	3750	7500	9700	7900
1.5	15	1000	900	1600×1650	2650	5500	2200	1350	3300	5500	3700	7220	3950	7900	10300	8300
	17	1150	1000	1800×1650	2850	6100	2200	1600	3500	6100	3700	9100	5450	10900	13150	10900
1.75	20	1350	1000	1800×1900	2850	6100	2400	1600	3500	6100	3900	9150	6750	13500	14550	11850
	24	1600	1100	1800×2130	2850	6100	2600	1600	3500	6100	4100	10050	7190	14380	16100	12900

- ▲ Notes : 1. Above dimensions are based on center opening doors. For applicable dimensions with side opening doors, consult Hyundai.
- 2. Consult Hyundai if the capacity is less than 11 persons.

OBSERVATION ELEVATORS

MRL(Machine-Room-Less) Elevators | 1.0~1.75m/sec

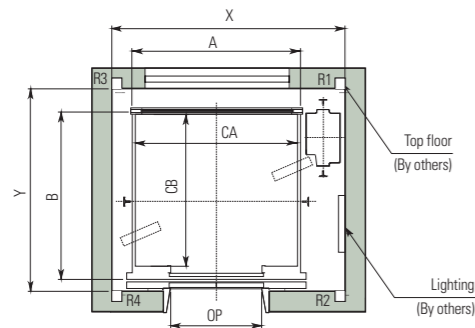
Plan of Hoistway & Machine Room

Section of Hoistway

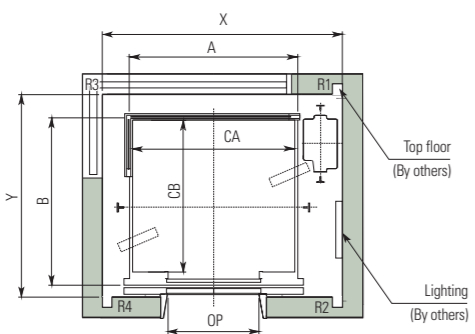
Standard Dimensions & Reactions

(Unit : mm)

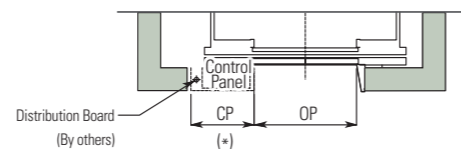
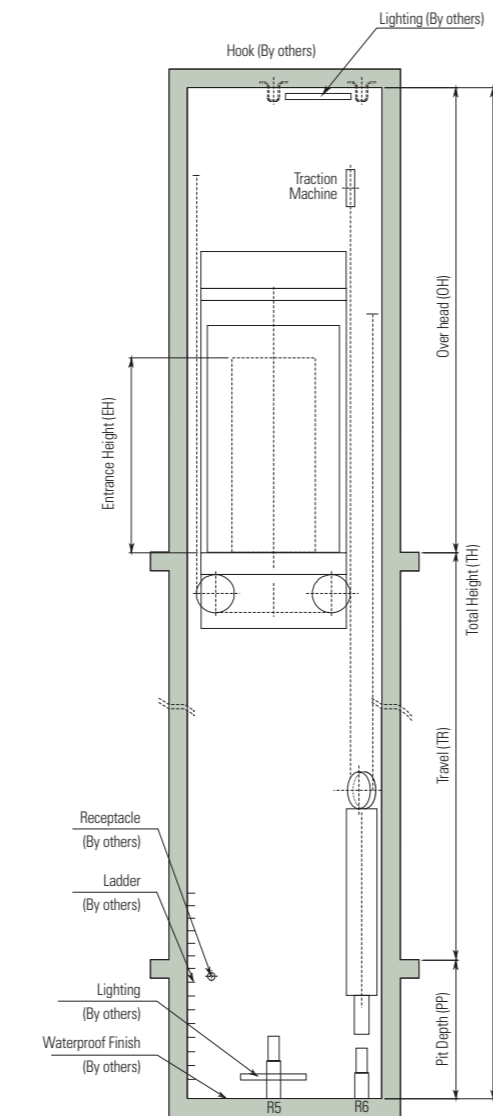
1 Side Type



2 Side Type



Floor without control panel



Floor with control panel

▲ Notes : 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)

Type	Speed (m/sec)	Capacity		Clear Opening OP	Car CA × CB	Hoistway X × Y	M/C Room Reaction (kg)				Pit Reaction (kg)	
		Persons	kg				R1	R2	R3	R4	R5	R6
1-Side Observation	1.0 1.5 1.75	8	550	800	1300×1090	2000×1700	4100	1950	700	1800	7500	6400
		9	600	800	1300×1160	2000×1800	4250	1980	750	1830	7800	6600
		10	700	800	1300×1300	2000×1850	4500	2050	800	1900	8400	7000
		11	750	800	1300×1400	2000×1900	4650	2080	900	1950	8700	7200
		13	900	900	1500×1400	2200×1900	5050	2250	1000	2100	9750	7950
		15	1000	900	1600×1400	2300×1900	5400	2350	1050	2200	10300	8350
		17	1150	1000	1800×1400	2600×2150	5750	3450	1100	2800	13000	10700
		20	1350	1000	1800×1600	2650×2400	6800	4800	1350	3150	14300	11600
2-Side Observation	1.0 1.5 1.75	8	550	800	1300×1090	2100×1700	4250	2000	750	1940	7700	6600
		9	600	800	1300×1160	2100×1800	4450	2030	800	1980	8000	6800
		10	700	800	1300×1300	2100×1850	4750	2100	850	2080	8600	7200
		11	750	800	1300×1400	2100×1900	4900	2150	950	2100	8900	7400
		13	900	900	1500×1400	2300×1900	5400	2300	1050	2300	9950	8150
		15	1000	900	1600×1400	2400×1900	5750	2400	1100	2500	10550	8550
		17	1150	1000	1800×1400	2660×2150	6650	3500	1150	3150	13200	10900
		20	1350	1000	1800×1600	2710×2400	7730	4850	1400	3500	14450	11800
24	1600	1100	2000×1700	2910×2400	8250	5000	1500	3650	15900	12700		

- ▲ Notes : 1. When non-standard capacities and dimensions (including fire protection doors) are required to meet the local code, please consult Hyundai.
 2. The minimum hoistway dimensions are shown on the above table. Therefore, some allowances should be made considering the sloping of the hoistways.
 3. The capacity in persons is calculated at 65kg / person. (EN81=75kg / person)
 4. If the height of floor is over 11m, please consult Hyundai as to the needs for emergency exit.
 5. In case the emergency stop switch is applied to the counter weight, consult Hyundai.
 6. If the car is heavier than 1000kg because of interior decoration in case of elevator for 15 persons (1000kg), consult Hyundai.

Overhead & Pit Depth

Load(kg)	Speed (m/sec)	Overhead (OH)	Pit (PP)	Control Panel (CP)(*)
550~1000	1.0	4300	1750	505
	1.5	4450	1800	
	1.75	4500	2000	
1150	1.0	4300	1800	505
	1.5	4450	1900	
	1.75	4500	2000	
1350~1600	1.0	4600	1800	505
	1.5	5000	1900	630
	1.75	5000	2100	630

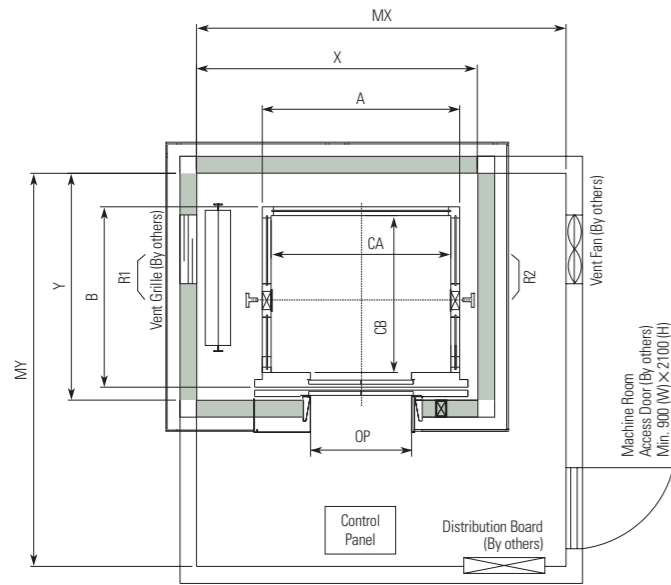
- ▲ Notes : 1. Above dimensions are applied for car height of 2500mm (car internal height is 2300mm). For other applicable dimensions, consult Hyundai.
 2. When face to face arrangement is required, partitioning work for hoistway is required. (EN81)
 3. If the hoistway is glass, consult Hyundai as it needs to finish joining glass. (EN81)

GLASS WALLED ELEVATORS

LUXEN Gearless / MRL Elevators | 0.75~1.75m/sec

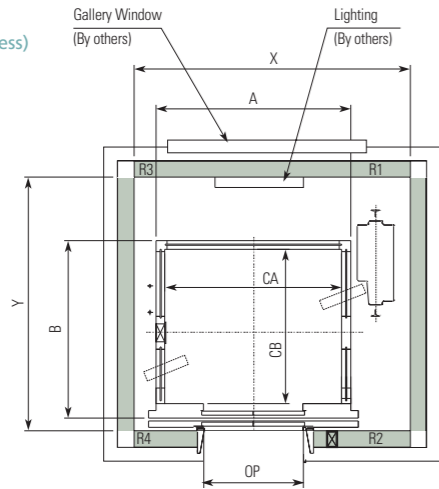
Plan of Hoistway & Machine Room

Gearless



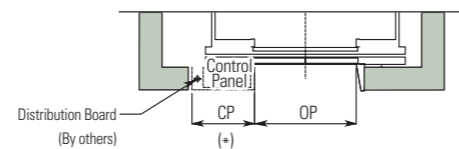
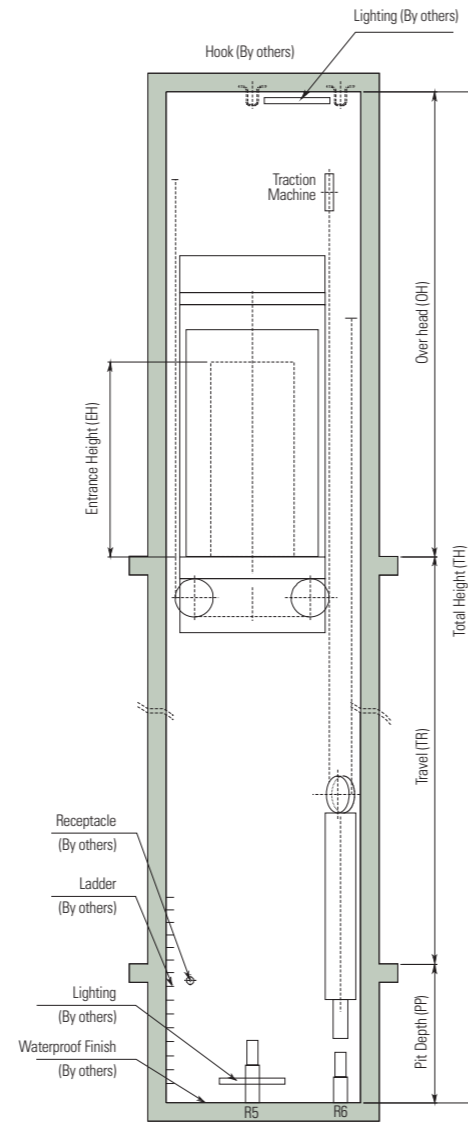
Floor without control panel

MRL (Machine-Room-Less)



Floor without control panel

Section of Hoistway



Floor with control panel

▲ Notes : 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)

Standard Dimensions & Reactions | Gearless Elevators

(Unit : mm)

Type	Speed (m/sec)	Capacity		Clear Opening OP	Car CA × CB	Hoistway X × Y	M/C Room		Pit Reaction (kg)		
		Persons	kg				R1	R2	R5	R6	
Glass walled Elevators	0.75 1.0 1.5 1.75	8	550	800	1400×1030	2300×1500	2700×3000	5450	3035	7800	6700
		9	600	800	1400×1100	2300×1600	2700×3100	5640	3150	8200	7000
		10	700	800	1400×1250	2300×1750	2700×3200	6010	3370	8750	7350
		11	750	800	1400×1350	2300×1850	2700×3350	6180	3480	9300	7800
		13	900	900	1600×1350	2500×1850	3100×3350	6930	3795	10350	8550
		15	1000	900	1600×1500	2500×2000	3100×3500	7220	3970	11050	9050
		17	1150	1000	1800×1500	2750×2000	3600×3500	9100	5440	13650	11350
		20	1350	1000	1800×1700	2890×2200	3600×3700	9144	6760	15300	12600
24	1600	1100	2000×1750	3090×2250	3800×3750	10020	7190	16800	13600		

Overhead & Pit Depth

(Unit : mm)

Load (kg)	450~1600 (kg)		M/C Room Height (MH)
	Overhead (OH)	Pit (PP)	
Speed(m/sec)			
1.0	4350	1350 (Max.15) 1450 (Min.17)	2200
1.5	4500	1500 (Max.15) 1600 (Min.17)	2400
1.75	4550	1900	2400

▲ Notes : 1. The machine room reactions are changeable according to the size of hoistway and center of car weight.
2. The same dimension of passenger elevators apply to the others except the above.
3. For NDFL-01 (Frameless Glass-walled elevators) type, consult Hyundai Elevator since hoistway dimension and machine room reactions for NDFL-01 type are changeable under different conditions.

Standard Dimensions & Reactions | MRL Elevators (Machine-Room-Less)

(Unit : mm)

Type	Speed (m/sec)	Capacity		Clear Opening OP	Car CA × CB	Hoistway X × Y	M/C Room Reaction (kg)				Pit Reaction (kg)	
		Persons	kg				R1	R2	R3	R4	R5	R6
Glass walled Elevators	0.75 1.0 1.5 1.75	8	550	800	1300×1100	2130×1750	4295	1870	660	1960	8150	7050
		9	600	800	1300×1190	2130×1800	4515	1910	740	2010	8500	7300
		10	700	800	1300×1300	2130×1850	4820	2030	840	2100	9050	7650
		11	750	800	1300×1400	2130×1900	4975	2030	910	2110	9450	7950
		13	900	900	1500×1400	2330×1900	5480	2240	1010	2350	10500	8700
		15	1000	900	1600×1400	2430×1900	5840	2385	1077	2521	11150	9150
		17	1150	1000	1800×1400	2700×2150	6745	3220	1154	3185	13750	11450
		20	1350	1000	1800×1600	2750×2350	7810	4515	1310	3530	15650	12950
24	1600	1100	2000×1700	2950×2400	8345	4650	1480	3720	16850	13650		

Overhead & Pit Depth

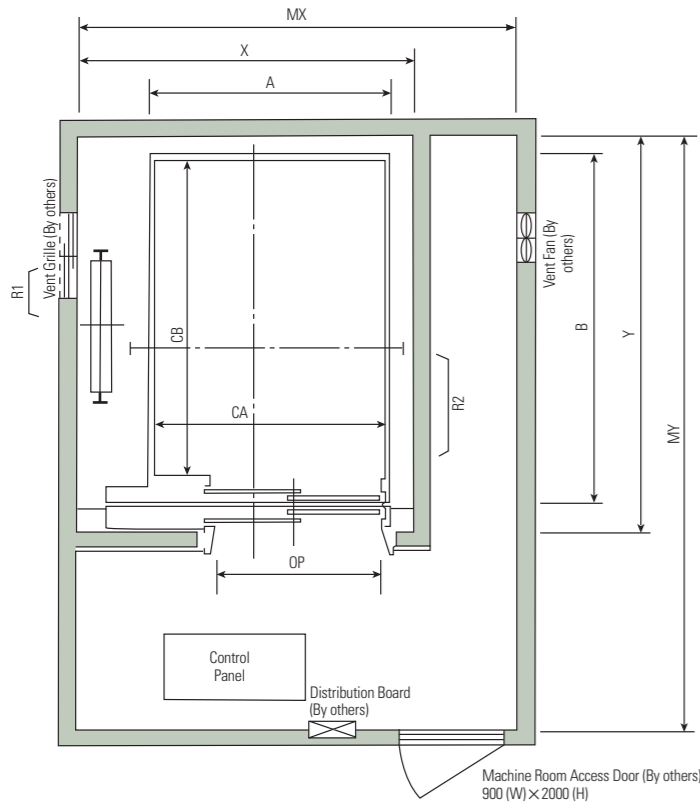
Speed (m/sec)	Persons	Overhead (OH)	Pit (PP)
0.75 / 1.0	Max.15	4200	1500
	17	4200	1600
1.5	Max.17	4300	1800
1.75		4400	2000

Speed (m/sec)	Persons	Overhead (OH)	Pit (PP)
0.75	20 / 24	4850	1600
1.0		4850	
1.5		5000	1800
1.75		5000	

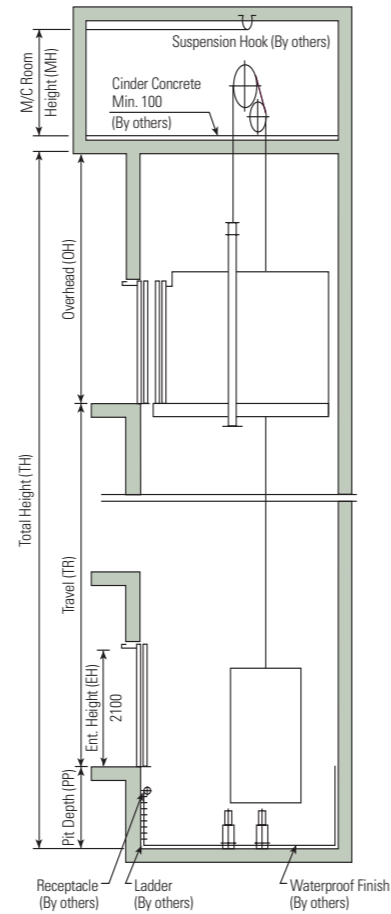
BED ELEVATORS

General Type (2S, 2SD)

Plan of Hoistway & Machine Room



Section of Hoistway



- ▲ Notes :
1. Machine Room temperature should be maintained below 40°C with ventilating fan and/or air conditioner, if necessary, and humidity below 90%.
 2. In case of special hoistway, machine room height may be higher than above size.
 3. Above is minimum size.
 4. The minimum machine room height should be 2800mm in case of the traction machine with double isolation pad.

Overhead & Pit Depth

(Unit : mm)

Speed (m/sec)	Overhead (OH)	Pit (PP)	M/C Room Height (MH)
0.75	4300	1300	2400
1.0	4400	1400	
1.5	4600	1600	
1.75	4700	1800	

Standard Dimensions & Reactions

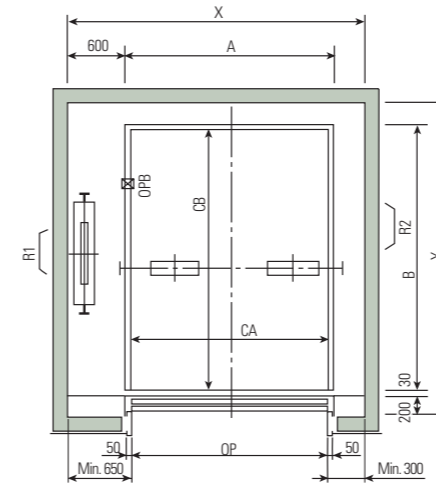
(Unit : mm)

Type	Model	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	B1350-2S	1100	1300×2300	1400×2507	2200×2850	2300×3500	10500	8500
	B1600-2S	1200	1500×2300	1600×2507	2400×2850	2750×4000	11500	9500
	B1750-2S	1200	1600×2300	1700×2507	2500×2850	2850×4000	11500	9500
Double Entrance Type	B1350-2SD	1100	1300×2300	1400×2634	2300×3000	2300×3500	10500	8500
	B1600-2SD	1200	1500×2300	1600×2634	2500×3000	2750×4000	11500	9500
	B1750-2SD	1200	1600×2300	1700×2634	2600×3000	2850×4000	11500	9500

AUTOMOBILE ELEVATORS

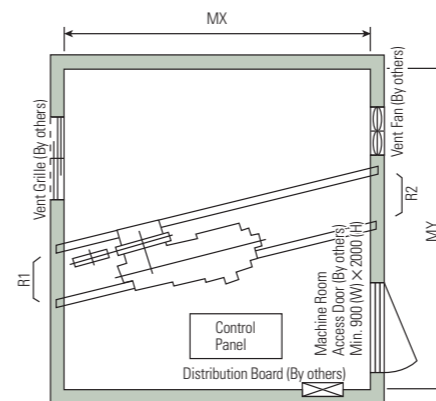
General Type (2U, 3U)

Plan of Hoistway & Machine Room



2-PANEL UP-SLIDING DOORS (2U)

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

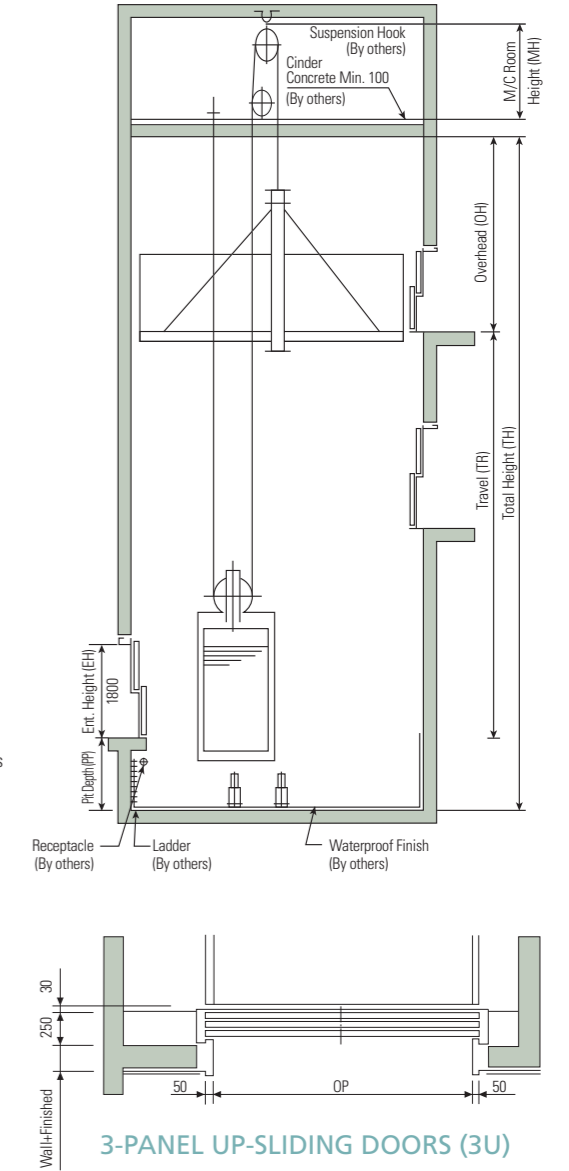
Standard Dimensions & Reactions

(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)

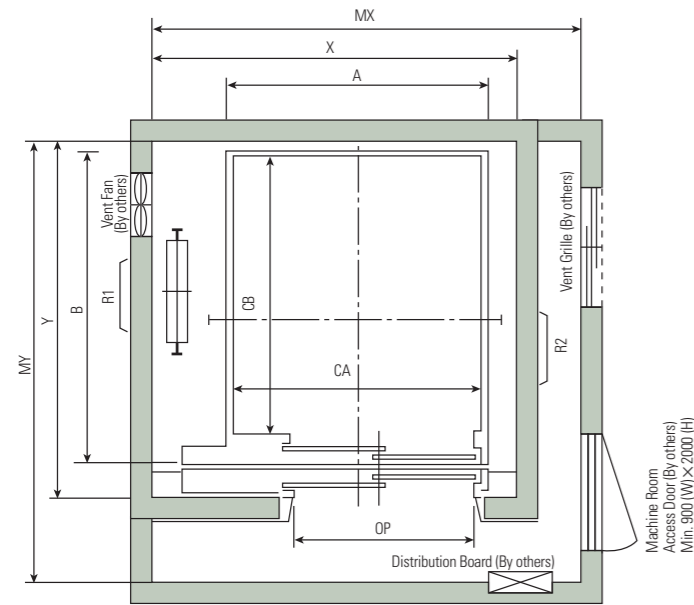
- Minimum floor height : Opening height × 4 / 3 + 750mm
- Minimum entrance height : 1800mm

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

FREIGHT ELEVATORS

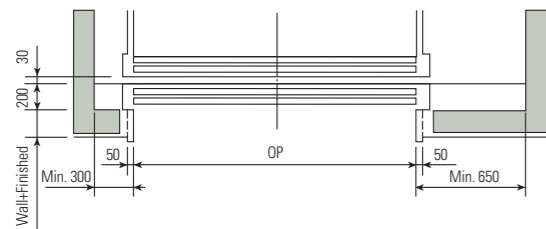
General Type (2S, 2U, 3U)

Plan of Hoistway & Machine Room



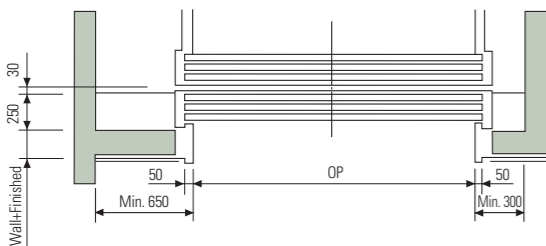
2-PANEL SIDE-OPENING DOORS (2S)

▲ 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 : $\text{Opening height} \times 3 / 2 + 700\text{mm}$
- Minimum entrance height : 2100mm

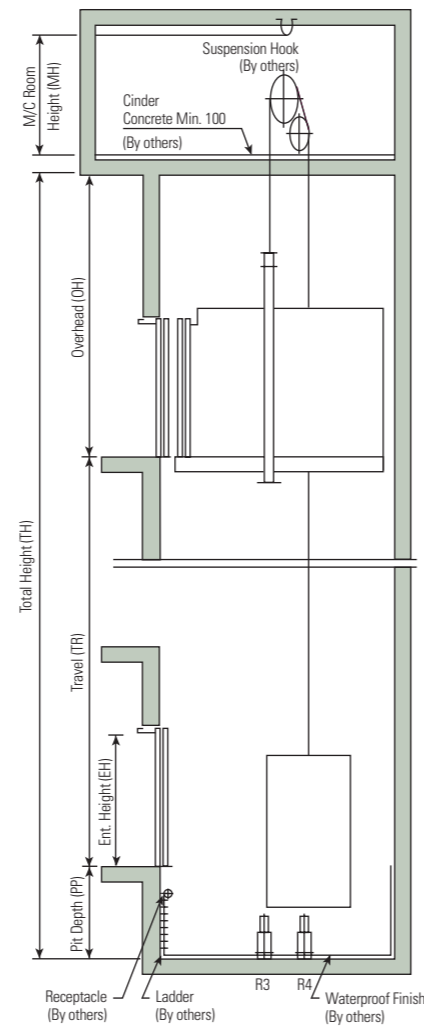


3-PANEL UP-SLIDING DOORS (3U)

- Minimum floor height : $\text{Opening height} \times 4 / 3 + 750\text{mm}$
- 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	2500×2320							
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	2750×2600							
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	3000×3250							
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	3300×3450							
F2000-2U	0.5 0.75 1.0	2U	2300×2100	Standard		2400×2898	2400×3250	3300×3250	4600	3800×4200	13300	8800	11400	9400
				Double Entrance			2400×3016	3300×3490						
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	3500×3750							
F2500-2U	0.5 0.75 1.0	2U	2500×2100	Standard		2600×3198	2600×3600	3500×3600	4600	4000×4400	15100	10000	13200	10700
				Double Entrance			2600×3316	3500×3800						
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	3700×4100							
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	4050×4600							
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	4250×5520							
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	4450×6020							

▲ 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	M/C Room Height
0.5	1500	≤3500kg	2400
0.75/1.0	1600	≤2500kg	2400(0.75) 2600(1.0)
	1650	≤3000kg	
	1750	≤3500kg	

ENTRANCE LAYOUTS

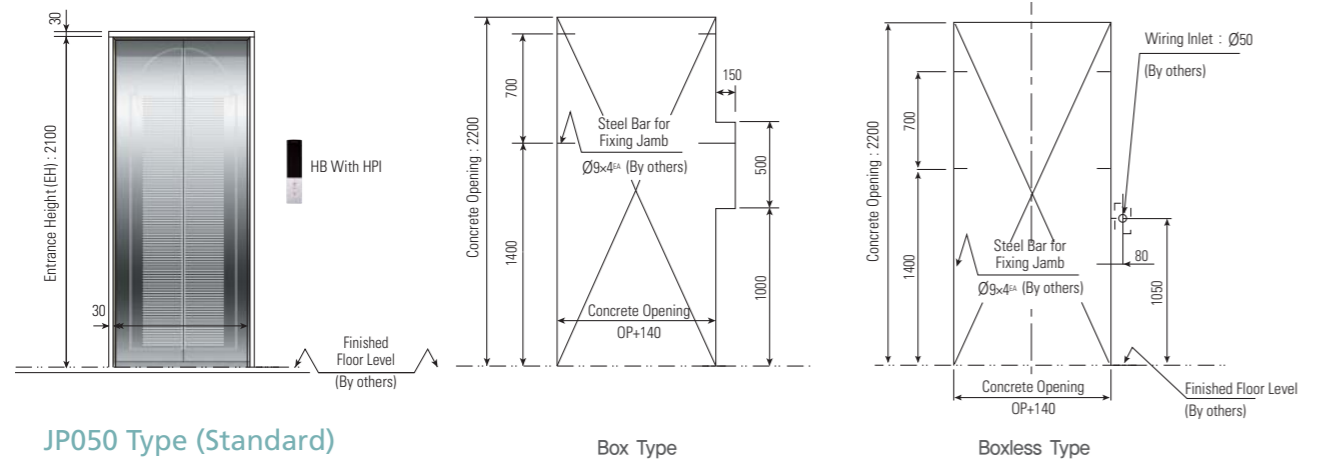
General Type(JP050, JP100, JP200)

ENTRANCE LAYOUTS

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

Entrance

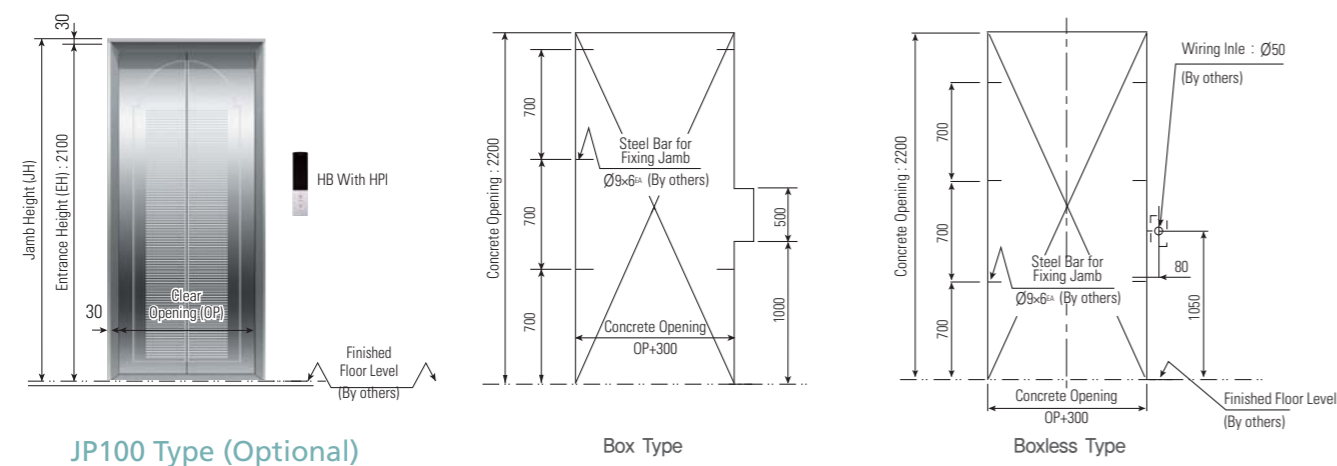
Structural Opening of Entrance



JP050 Type (Standard)

Box Type

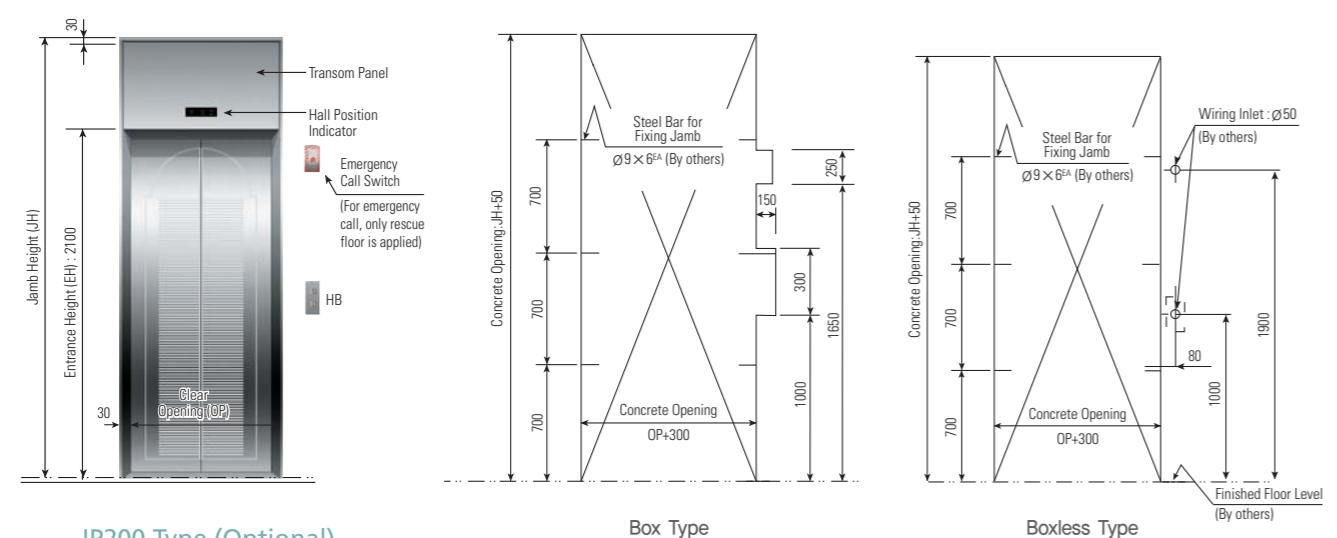
Boxless Type



JP100 Type (Optional)

Box Type

Boxless Type



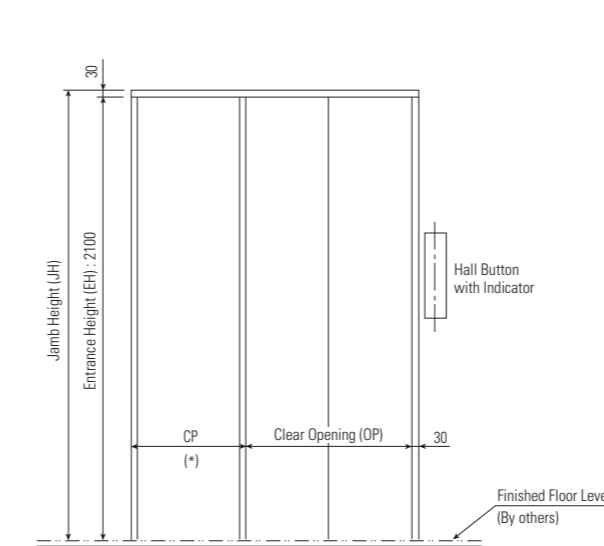
JP200 Type (Optional)

Box Type

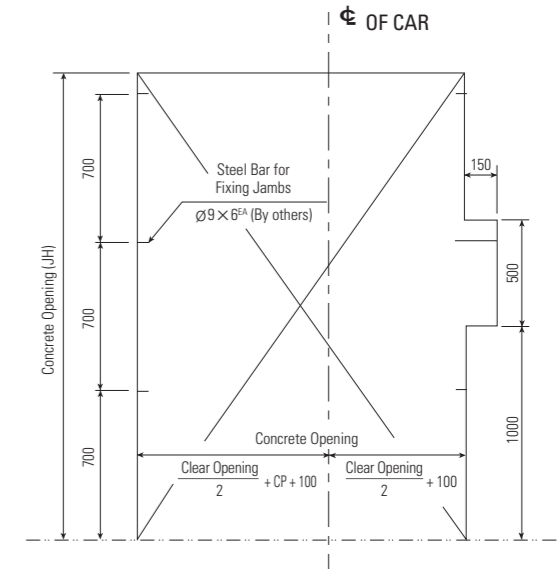
Boxless Type

Entrance Design

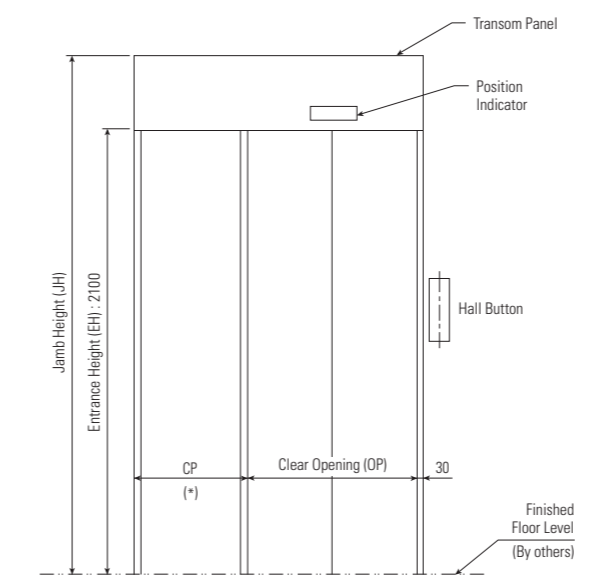
Structural Opening of Entrance



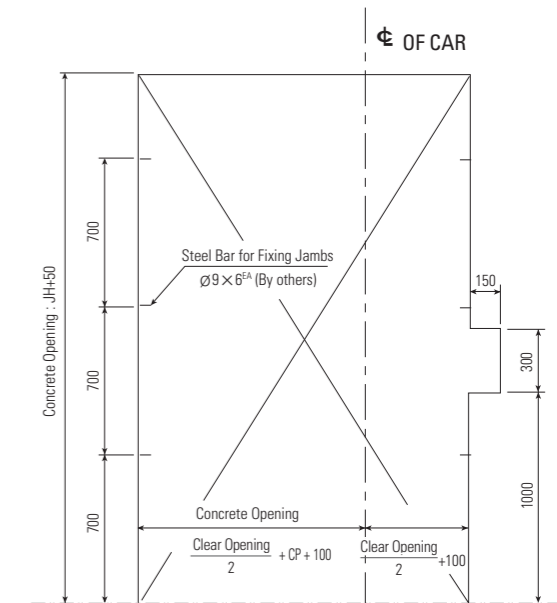
CP110 Type (Standard)



CP110 Type (Standard)



CP210 Type (Optional)



CP210 Type (Optional)

MRL

Load(kg)	Speed(m/sec)	Width of Control Panel(CP)(*)
550~1150	1.0~1.75	505
1350~1600	1.0	505
	1.5, 1.75	630

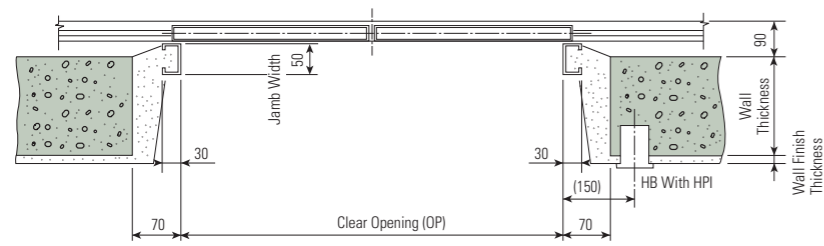
New YZER

Load(kg)	Speed(m/sec)	Width of Control Panel(CP)(*)
550~600	1.0~1.75	430
630~1000	1.0	430
	1.5, 1.75	505
1150	1.0~1.75	505
1350~1600	1.0	505
	1.5, 1.75	In Hoistway

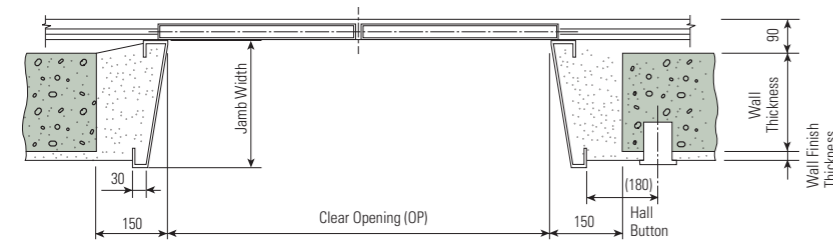
ENTRANCE LAYOUTS

2-Panel Center-Opening Doors (CO)

Plan of Entrance

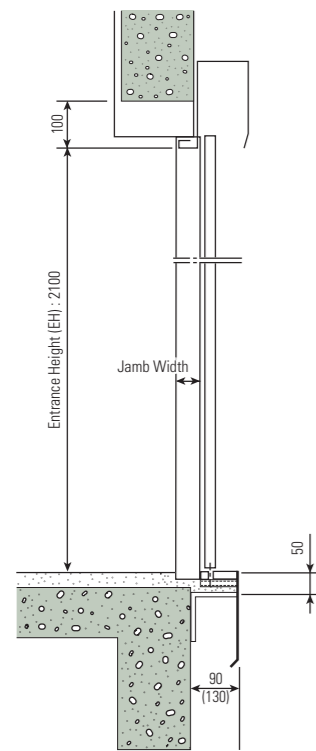


JP050 Type

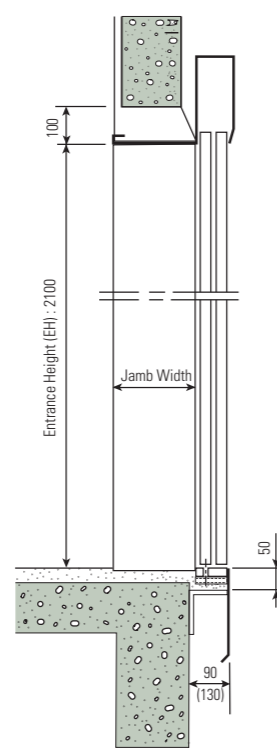


JP100, JP200 Type

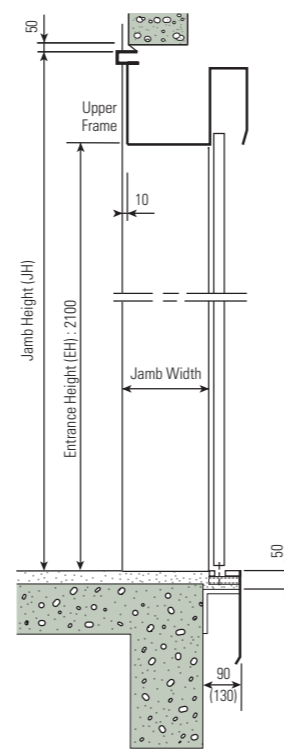
Section Entrance



JP050 Type



JP100 Type



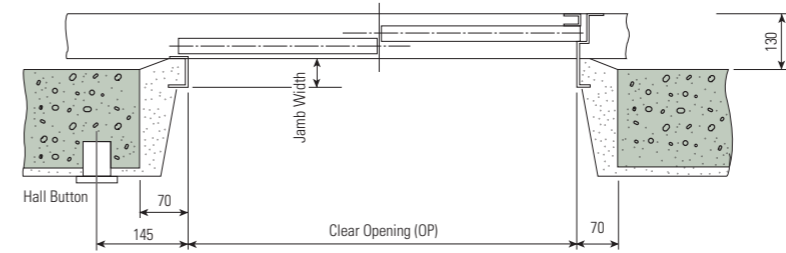
JP200 Type

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

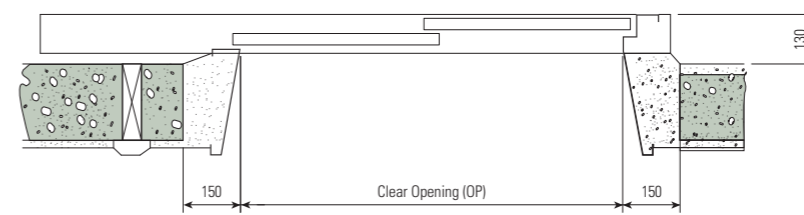
ENTRANCE LAYOUTS

2-Panel Side-Opening Doors (2S)

Plan of Entrance



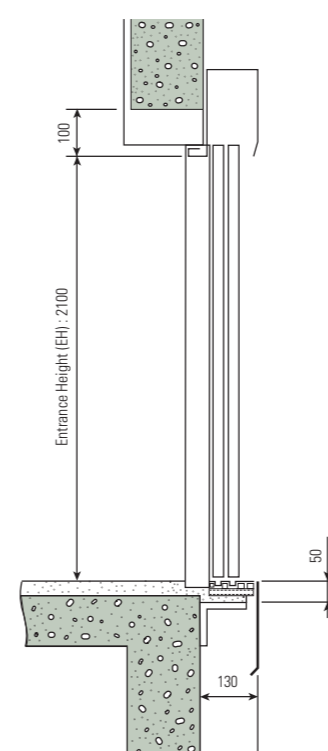
JP050 Type



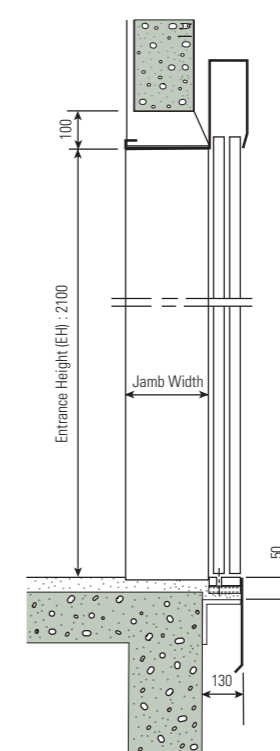
JP100, JP200 Type

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

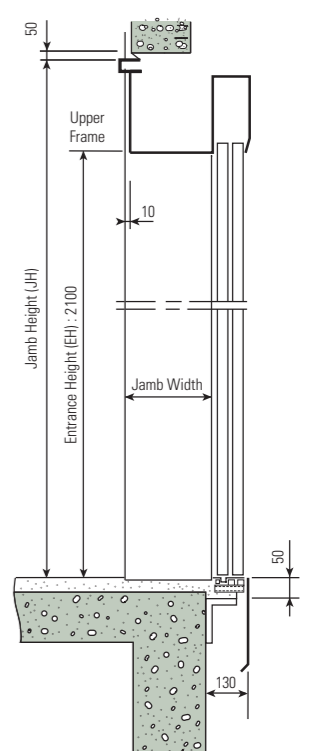
Section of Entrance



JP050 Type



JP100 Type



JP200 Type

ENTRANCE LAYOUTS

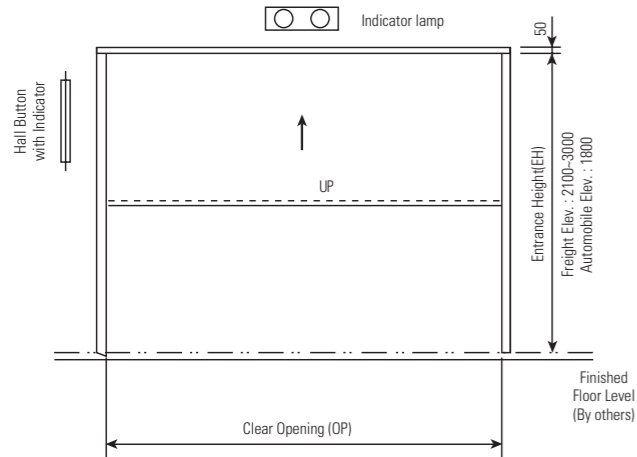
2-Panel Up-Sliding Doors (2U) / 4-Panel Center-Opening Doors (2SCO)

S - SERIES ESCALATORS(30°)

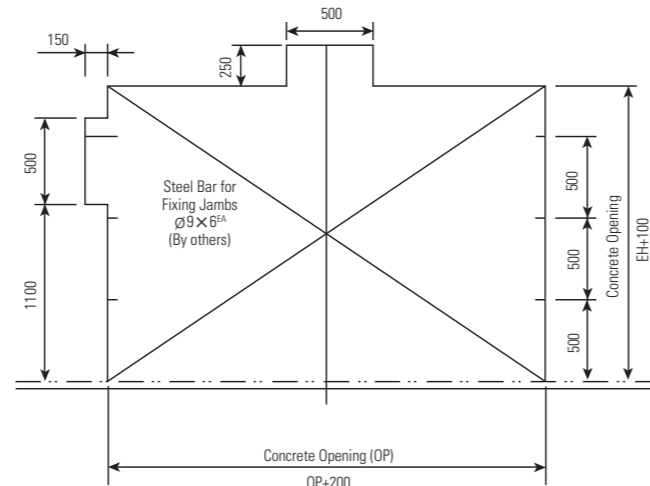
S-BT

2-Panel Up-Sliding Doors (2U)

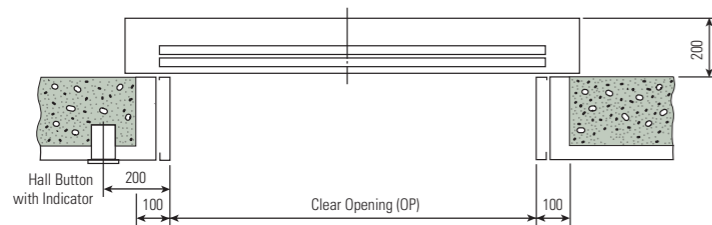
Entrance Design



Structural Opening of Entrance



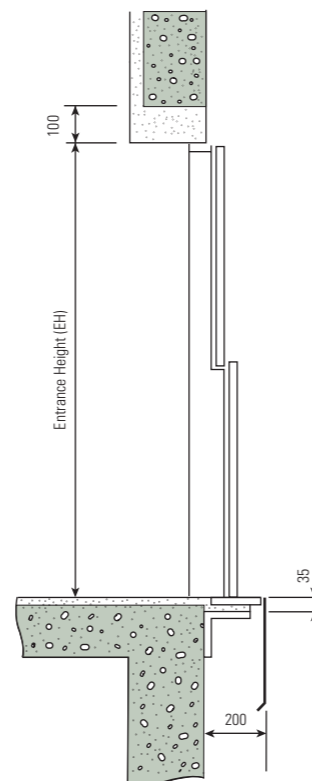
Plan of Entrance



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

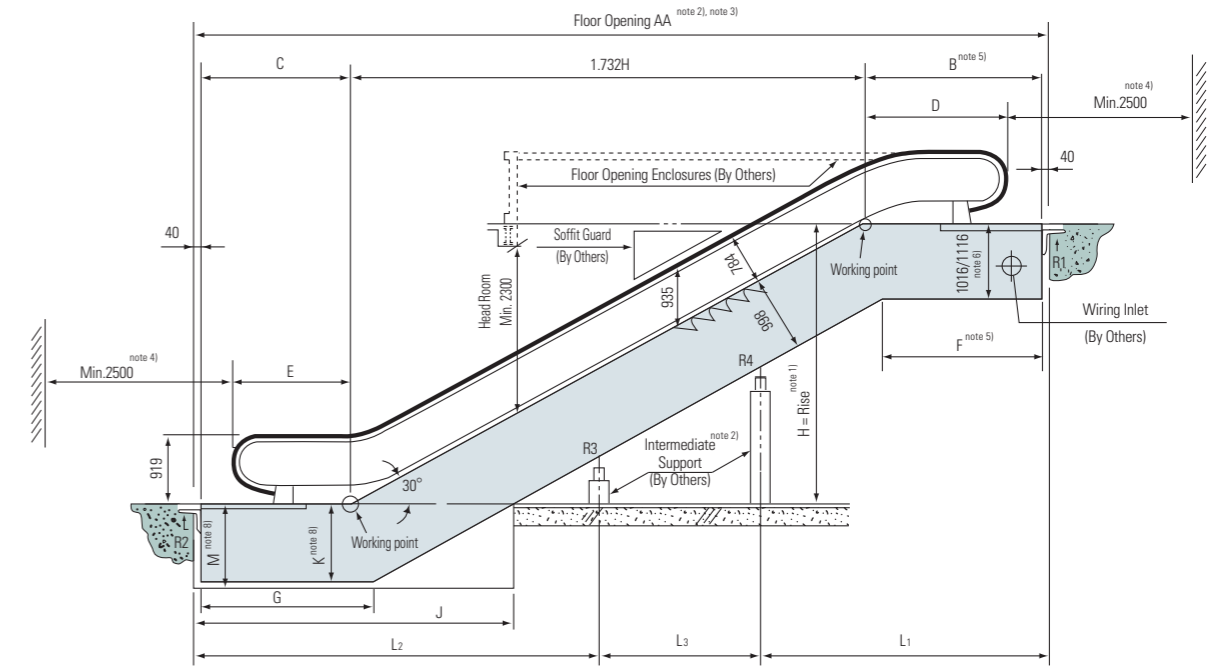
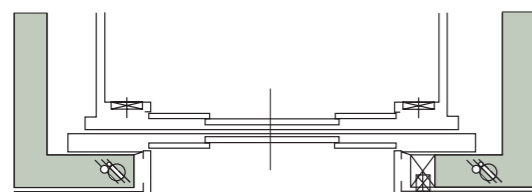
- ▲ Notes : 1. The standard location of Hall Button with Indicator for automobile elevators is on left wall but it is on the right wall for freight elevators.
2. Consult Hyundai if the dimensions are less than the minimum.

Section of Entrance



4-Panel Center-Opening Doors (2SCO)

Plan of Entrance



- ▲ Notes : 1. Vertical Rise : $1.7\text{m} \leq H \leq 8\text{m}$
2. $AA=1.732 \times H + B + C + 80$
When maximum floor opening exceeds $AA=15,300\text{mm}$, 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. Distance dimension between the end of handrail to the wall : Min. 2,500mm
5. In case 800type is applied, dimension B, F shall increase 500mm
In case inverter system is applied, dimension B, F shall increase 100mm for only 1000type.
6. Motor 5.5kw-11kw : 1,016mm, Motor 15kw : 1,116mm.
According to Motor capacity, the corresponding F size is changed.
7. Dimensions are based on EN115.
8. Please refer to the table.

Type	K	M
Indoor	1016	1120
Outdoor	1191	1290

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

Section Dimensions

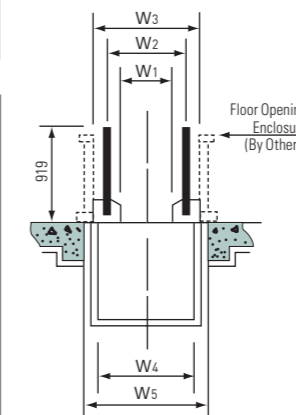
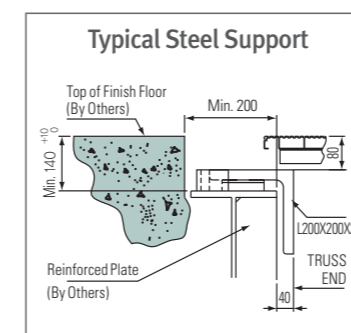
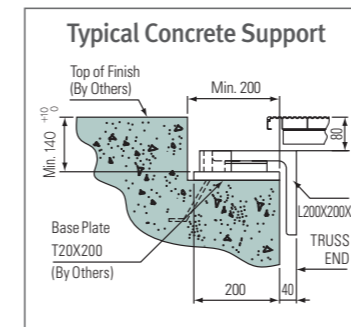
(Unit : mm)

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

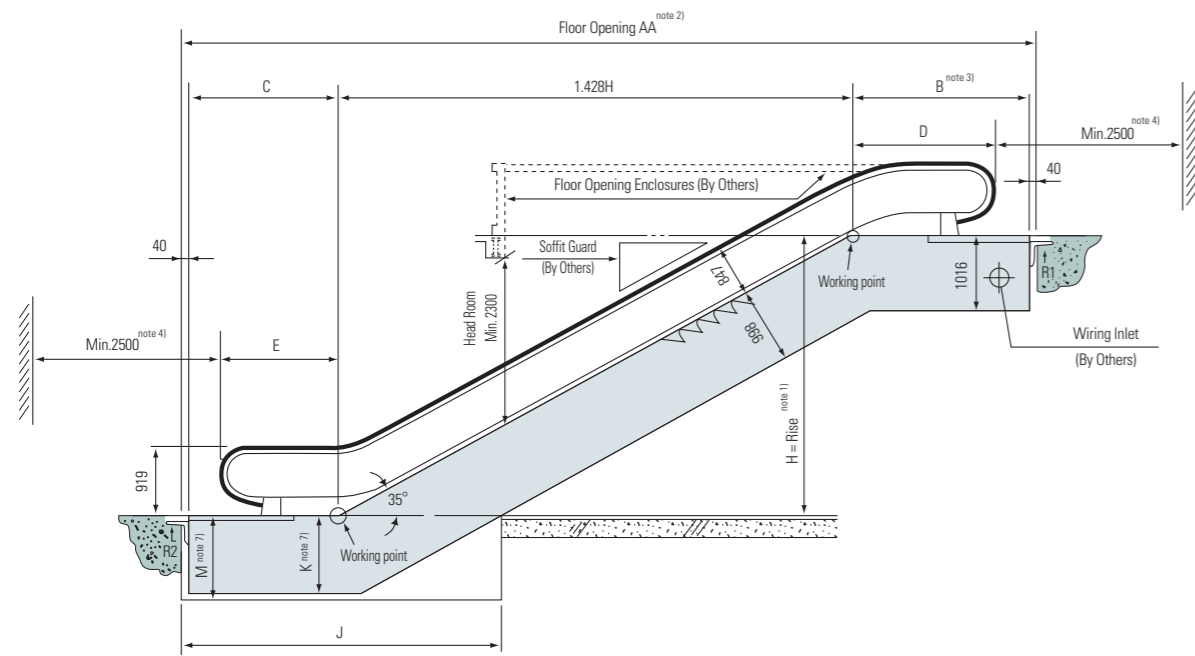
(Unit : kg)

Type	S800			
	Rise H (mm)	$H \leq 6000$	$5000 \leq H \leq 7600$	$7600 \leq H \leq 8000$
Number of Intermediate Support	-	1	1	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		-	$0.36(L_1 + L_2) + 450$	$0.36(L_1 + L_2) + 700$
R4		-	-	$0.36(L_1 + L_3) + 250$
R4		-	-	$0.36(L_1 + L_3) + 600$
Type	S1000			
Rise H (mm)	$H \leq 6000$	$5000 \leq H \leq 7600$	$7600 \leq H \leq 8000$	
Number of Intermediate Support	-	1	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		-	$0.41(L_1 + L_2) + 450$	$0.41(L_1 + L_2) + 700$
R4		-	-	$0.41(L_2 + L_3) + 250$
R4		-	-	$0.41(L_1 + L_3) + 600$
Type	S1200			
Rise H (mm)	$H \leq 6000$	$5000 \leq H \leq 7600$	$7600 \leq H \leq 8000$	
Number of Intermediate Support	-	1	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		-	$0.45(L_1 + L_2) + 500$	$0.45(L_1 + L_2) + 750$
R4		-	-	$0.45(L_2 + L_3) + 300$
R4		-	-	$0.45(L_1 + L_3) + 650$



S - SERIES ESCALATORS(35°)

S-BT



- ▲ Notes : 1. Vertical Rise $2m \leq H \leq 6m$
 2. $AA=1,428H+B+C+80$
 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 B shall increase 500mm
 In case inverter system is applied, dimension B shall increase 100mm for only 1000type.
 4. Dimension between the end of handrail to the wall ; Min 2500mm
 5. Dimensions are based on EN115
 6. Please refer to the table

Type	K	M
Indoor	1016	1120
Outdoor	1191	1290

Q'ty of Flat Step	B	C	D	E	J
2	2636	2189	2154	1707	4350
3	3036	2589	2554	2107	4750

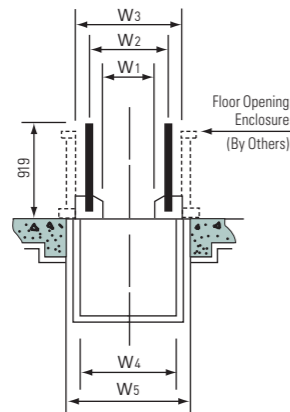
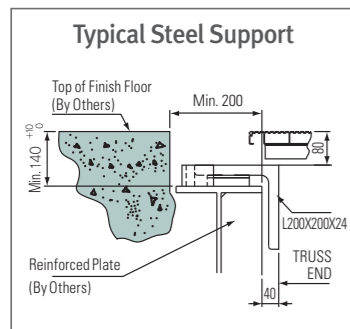
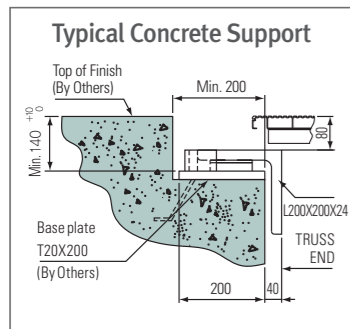
Section Dimensions (Unit : mm)

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)

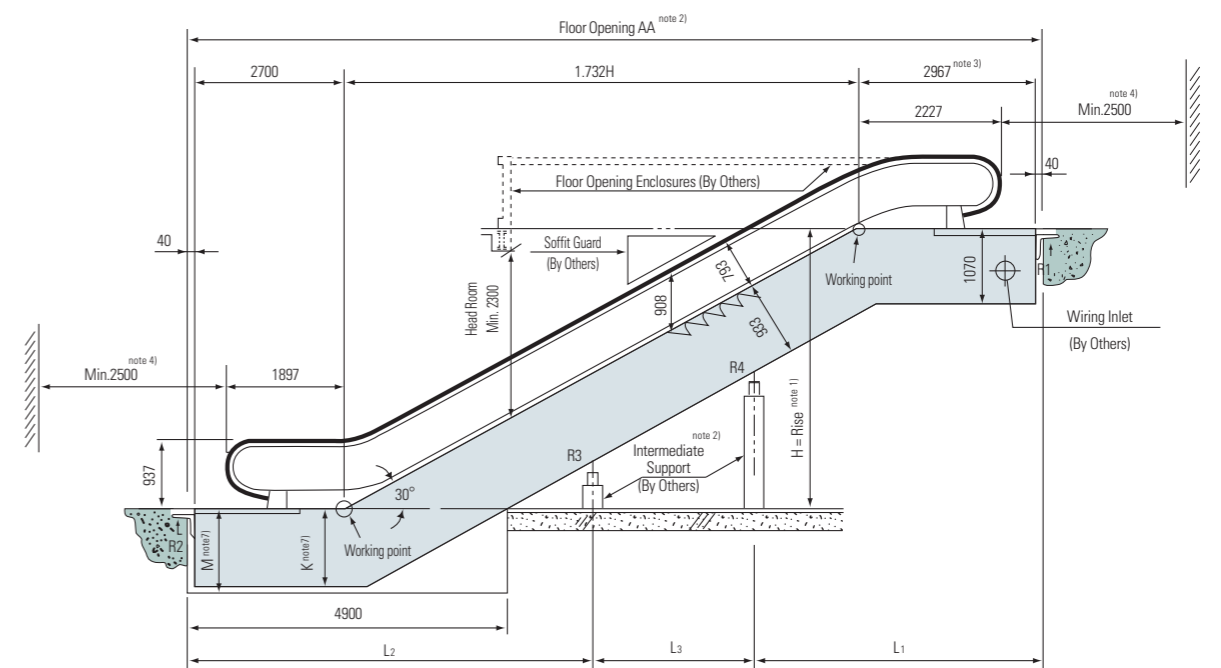
Vertical Rise H (mm)	Reactions	S800	S1000	S1200
2000 ~ 6000	R1	0.51H + 2400	0.59H + 2700	0.66H + 3000
	R2	0.51H + 1800	0.59H + 2100	0.66H + 2300

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



NW-SERIES ESCALATOR(VERTICAL RISE $8M < H \leq 10.5M$)

NW-BT, NW-BB



- ▲ Notes : 1. Vertical Rise $8m < H \leq 10.5m$
 2. $AA=1,732H+2967+2700+80$
 When maximum floor opening exceeds $AA=15,400$, intermediate support(s) are required. Consult Hyundai for the intermediate support data.
 3. Increase of dimension 2967

Type	NW800	NW1000	NW1200
Standard	500mm	-	-
Inverter System	800mm	500mm	500mm
Double Drive(H<9.5m)	N/A	N/A	500mm
Inverter System+Double Drive	N/A	N/A	800mm

4. Dimension between the end of handrail to the wall ; Min 2500mm
 5. Dimensions are based on EN115
 6. Q'ty of flat step : 3
 7. Please refer to the table

Type	K	M
Indoor	1070	1170
Outdoor	1245	1350

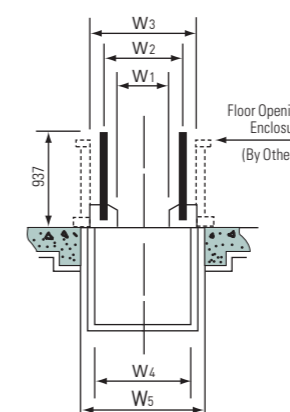
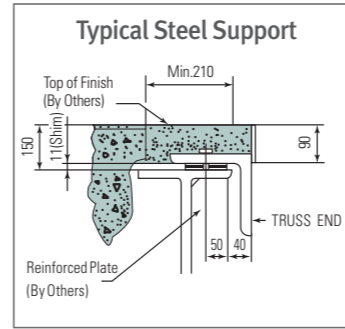
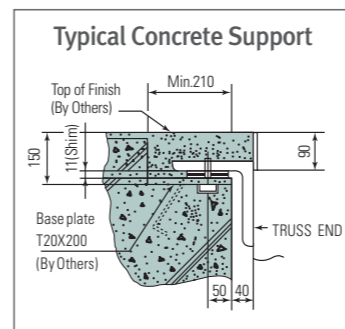
Section Dimensions (Unit : mm)

Type	NW800	NW1000	NW1200
W ₁	594(612)	813	1014
W ₂	837(855)	1056	1257
W ₃	1150	1350	1550
W ₄	1100	1300	1500
W ₅	1250	1450	1650

* () : For stainless step

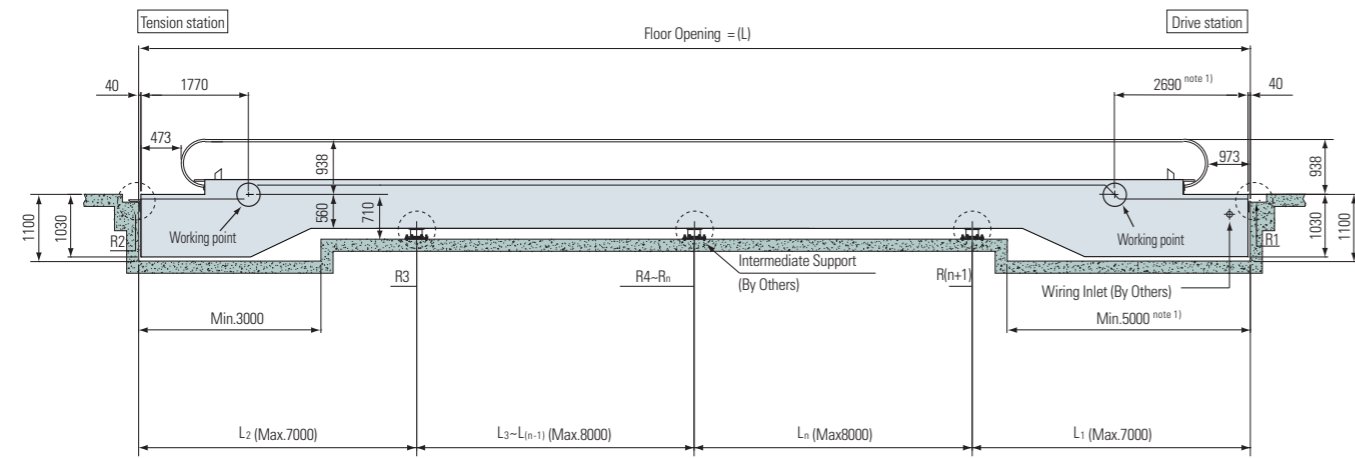
Reactions (Unit : kg)

Type	NW800	
Number of Intermediate Support	1	2
	R1	$0.36L_1 + 1400$
	R2	$0.36L_2 + 400$
	R3	$0.36(L_1 + L_2) + 700$
Type	NW1000	
	1	2
	R1	$0.41L_1 + 1400$
	R2	$0.41L_2 + 400$
Type	NW1200	
	1	2
	R1	$0.45L_1 + 1550$
	R2	$0.45L_2 + 450$
R3	$0.45(L_1 + L_2) + 750$	
R4	-	$0.45(L_1 + L_3) + 650$



MOVING WALKS (0°)

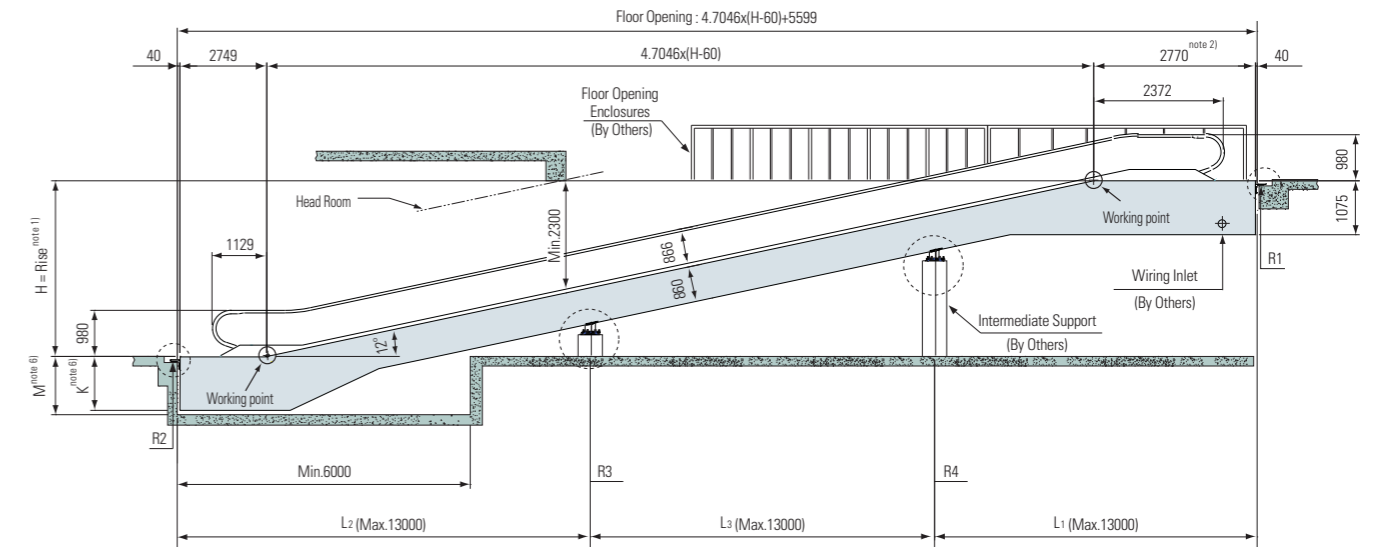
HORIZONTAL TYPE/PM-BT



- ▲ Notes : 1. 2690mm is a dimension of inverter applied system
- 2. Dimension between the end of handrail to the wall : Min 2500mm
- 3. Dimensions are based on EN115

MOVING WALKS (12°)

INCLINED TYPE/SM-BT



- ▲ Notes : 1. Vertical Rise : 1420mm ≤ H ≤ 9000mm
- 2. When vertical rise is over 7000mm, dimension 2770 of 1200 type shall increase 500mm.
- 3. Consult Hyundai for the inclination of 10° & 11°
- 4. Dimension between the end of handrail to the wall : Min. 2500mm
- 5. Dimensions are based on EN115
- 6. Please refer to the table.

Type	K	M
Indoor	1075	1200
Outdoor	1255	1380

Reactions

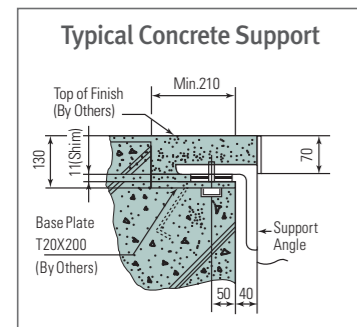
(L₁ ~ L_n Unit : m)

Inclination	Floor Opening AA=(L)	Type	R1(kg)	R2(kg)	R3(kg)	R4(kg)	Rn(kg)
0°	9110~90000	PM1000	400 × L ₁ + 1300	400 × L ₂ + 400	330 × (L ₂ + L ₃)	330 × (L ₃ + L ₄)	330 × (L _{n-1} + L _n)
		PM1200	420 × L ₁ + 1700	420 × L ₂ + 700	350 × (L ₂ + L ₃)	340 × (L ₃ + L ₄)	350 × (L _{n-1} + L _n)

Reactions

(L₁ ~ L_n Unit : m)

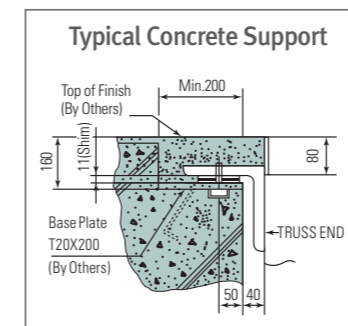
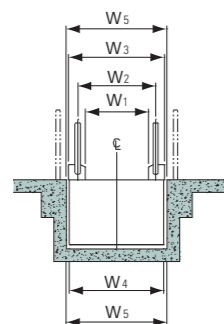
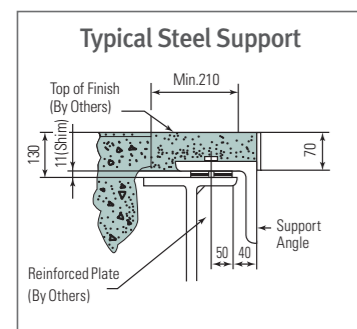
Number of Intermediate Support	SM1000					SM1200				
	R1(kg)	R2(kg)	R3(kg)	R4(kg)	R5(kg)	R1(kg)	R2(kg)	R3(kg)	R4(kg)	R5(kg)
1	350 × L ₁ + 1450	350 × L ₂ + 720	410 × (L ₁ + L ₂) + 1600	-	-	390 × L ₁ + 1600	390 × L ₂ + 790	450 × (L ₁ + L ₂) + 1750	-	-
2	350 × L ₁ + 1450	350 × L ₂ + 720	410 × (L ₂ + L ₃) + 1600	410 × (L ₁ + L ₃) + 1600	-	390 × L ₁ + 1600	390 × L ₂ + 790	450 × (L ₂ + L ₃) + 1750	450 × (L ₁ + L ₃) + 1750	-
3	350 × L ₁ + 1450	350 × L ₂ + 720	410 × (L ₂ + L ₃) + 1600	410 × (L ₃ + L ₄) + 1600	410 × (L ₁ + L ₄) + 1600	390 × L ₁ + 1600	390 × L ₂ + 790	450 × (L ₂ + L ₃) + 1750	450 × (L ₃ + L ₄) + 1750	450 × (L ₁ + L ₄) + 1750



Section Dimensions

(Unit : mm)

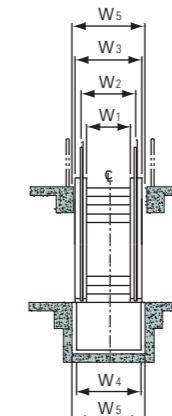
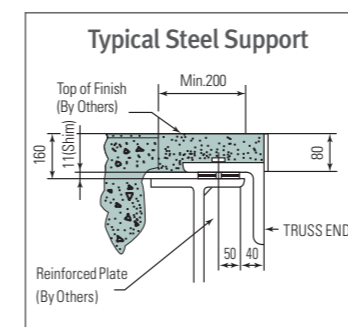
Type	PM1000	PM1200
W ₁	800	1000
W ₂	1037	1237
W ₃	1330	1530
W ₄	1300	1500
W ₅	1400	1600



Section Dimensions

(Unit : mm)

Type	SM1000	SM1200
W ₁	807	1007
W ₂	1037	1237
W ₃	1330	1530
W ₄	1300	1500
W ₅	1450	1650

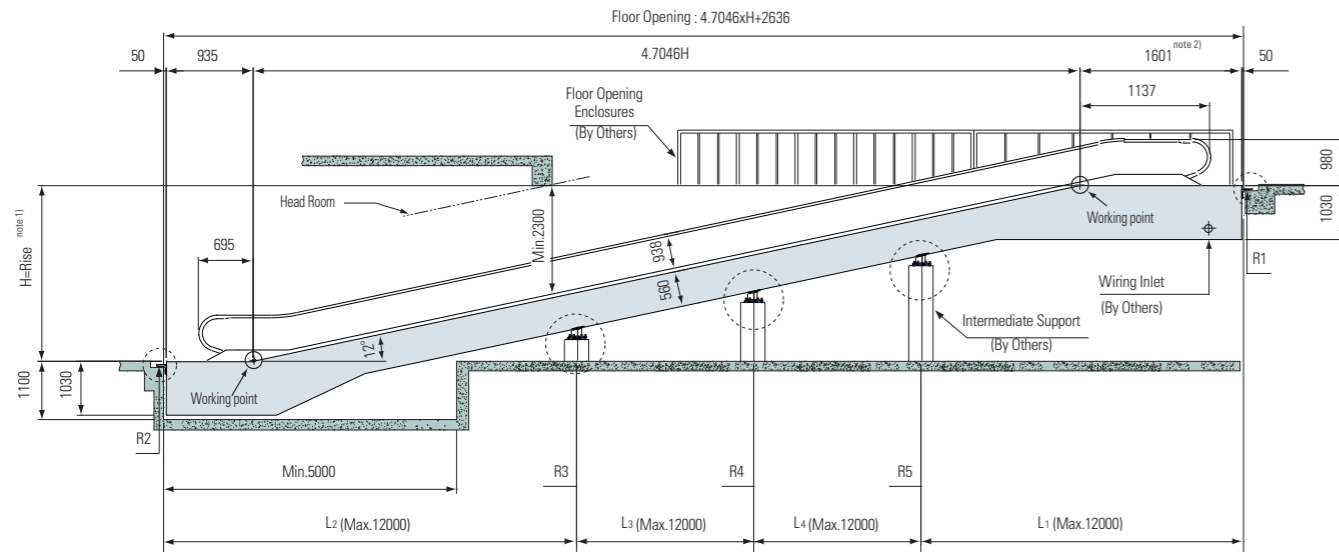


MOVING WALKS (12°)

INCLINED TYPE/PMC-BT

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.)



- ▲ Notes:
1. Vertical Rise : 1430mm ≤ H ≤ 6000mm
 2. When inverter system is applied, dimension 1601 shall increase 300mm.
 3. Dimension between the end of handrail to the wall : Min. 2500mm
 4. Dimensions are based on EN115

Elevator

Construction Work

Hoistway

1. 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)
2. Installation of steel frame to fix the left/right jambs on the exit
3. Installation of ladder for pit inspection
4. Waterproofing work inside the pit and finishing work after attaching the buffer
5. Installation of hoistway partitions or separating beams (when necessary)
6. Removing various tie pins and molds
7. Others (items indicated on the floor plan)
8. Construction of concrete structures (thickness of 150mm or above) or beam structures that can fasten the rail brackets in the hoistway wall
9. Supplying storage for construction tools and materials free of charge
10. Destruction and finishing of concrete structures that are not constructed as indicated on the blueprint
11. Installation of lighting within hoistway (install lighting of 100 Lux or above on upper and lower part of the hoistway)
12. Installation of tensile beam or hook that is designed to lift the machine to the ceiling of hoistway

Machine Room

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

Electric Work

Hoistway

1. 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)
 2. Piping and wiring work from monitoring panel to hoistway when monitoring panel is installed
 3. Piping and wiring work when CCTV is installed
 4. Others (items indicated on the floor plan)
 5. 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.)
 6. 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.)
 7. Construction for power facilities to maintain the voltage regulation of distribution source within +5 % to -10 % and lighting within ±2 %
 8. Piping and wiring work on lighting outlet for pit inspection
 9. Supplying power needed during installation and commissioning free of charge
 10. 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)
- 1) 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.
 - 2) 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

1. Piping and wiring work outside the hoistway when interphone is installed on places other than the machine room
2. Construction of lighting and lighting outlets for inspection in machine room
3. Supplying power needed during installation and commissioning free of charge
4. Installation of lighting for power system and cage, and construction of machine room incoming panel and its wiring for emergency power
5. 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

1. 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.
 2. Do not install ducts or pipes for other purposes (electricity, water, gas, hydrant) on the hoistway and walls inside the machine room.
 3. Lower part of pit should not be used as residence, pathway, or for other purposes.
 4. Power and voltage regulation should be within +5 % to -10 %.
 5. Temperature in machine room should be 40°C 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 (1/40: VVVF)

Escalator/Moving Walk

Construction Work

1. Forming holes on the floor slab for installation and filling the holes after installation
2. Installation of intermediate strut beams for installation (when necessary)
3. Forming holes on the floor slab for introducing escalator/moving walk and filling the holes after installation
4. 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)
5. Finishing work on floor and ceiling around the escalator/moving walk
6. Construction of handle around escalator/moving walk 7. Bordering work on the part where the ceiling of the building and the escalator/moving walk meet each other
8. Installation of fall protection net in case that the floor of escalator/moving walk has a hole
9. Forming holes for introducing the escalator/moving walk and filling the holes after installation
10. Curing and restoring the borders of escalator/moving walk when it is installed on an existing building
11. Supplying storage for construction tools and materials free of charge
12. Exterior work on escalator/moving walk

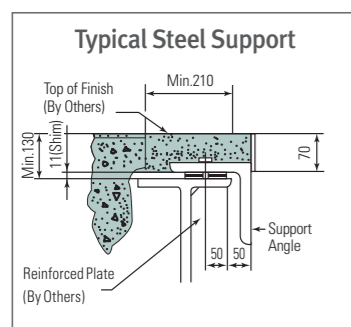
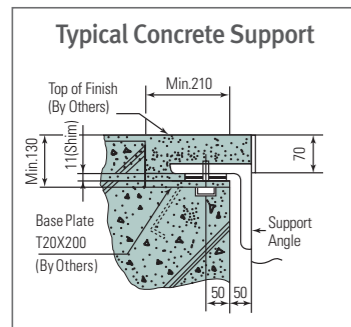
Electric Work

1. Power system and lighting: Piping and wiring work on upper incoming panel of escalator/moving walk
2. Power for inspection: Piping and wiring work on upper incoming panel of escalator/moving walk
3. Grounding wire (class III): Piping and wiring work on upper incoming panel of escalator/moving walk
4. 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)
5. Supplying power needed during installation and commissioning free of charge

Reactions

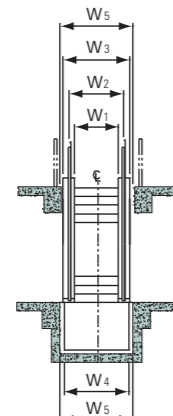
(L1 ~ L5 Unit : m)

Number of Intermediate Support	PMC1000					PMC1200				
	R1 (kg)	R2 (kg)	R3 (kg)	R4 (kg)	R5 (kg)	R1 (kg)	R2 (kg)	R3 (kg)	R4 (kg)	R5 (kg)
1	450 × L ₁ + 700	420 × L ₂ + 45	440 × (L ₁ + L ₂)	-	-	500 × L ₁ + 780	470 × L ₂ + 50	490 × (L ₁ + L ₂)	-	-
2	450 × L ₁ + 700	420 × L ₂ + 45	430 × (L ₂ + L ₃)	440 × (L ₁ + L ₃)	-	500 × L ₁ + 780	470 × L ₂ + 50	480 × (L ₂ + L ₃)	500 × (L ₁ + L ₃)	-
3	450 × L ₁ + 700	420 × L ₂ + 45	430 × (L ₂ + L ₃)	440 × (L ₃ + L ₄)	440 × (L ₁ + L ₄)	500 × L ₁ + 780	470 × L ₂ + 50	480 × (L ₂ + L ₃)	490 × (L ₃ + L ₄)	500 × (L ₁ + L ₄)



Section Dimensions (Unit : mm)

Type	PMC1000	PMC1200
W ₁	800	1000
W ₂	1037	1237
W ₃	1340	1540
W ₄	1300	1500
W ₅	1400	1600



ELECTRIC POWER REQUIREMENTS

(By Others)

Elevator (1.0~2.5m/sec)

(380V)

Load (kg)	Speed (m/sec)	Motor Capacity (kW)	MCCB Capacity of Building (A)		Power Supply Capacity (kVA)		Power Cable Size (mm ²)		Earth Wire Size (mm ²)	
			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	10.5	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	71	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 formula should be applied.
2. Above cable sizes are for copper wires inside electrometallic tubings.
- $$\text{Cable sizes(mm}^2\text{)} = \frac{\text{Cable length(m)}}{50} \times \text{Size in the above(mm}^2\text{)}$$
3. For power requirement of 3 cars or more, consult Hyundai.
4. Machine room temperature should be maintained below 40°C with ventilating fan and air conditioner, and below 90%.

ELECTRIC POWER REQUIREMENTS

(By Others)

Elevator (3.0~10.0m/sec)

(380V)

Load (kg)	Speed (m/sec)	Motor Capacity (kW)	MCCB Capacity of Building (A)		Power Supply Capacity (kVA)		Power Cable Size (mm ²)		Earth Wire Size (mm ²)	
			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
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
	1350	3.0	25	75	150	44	87	25	70	16
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
1600		3.0	30	100	175	52	104	35	95	16
	3.5	35	125	200	60	120	50	95	25	50
	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

- ▲ 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:

$$\text{Power feeder size(mm}^2\text{)} = \frac{\text{Power feeder length(m)}}{50} \times \text{Size in the above(mm}^2\text{)}$$

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 (mm ²)		Earth Wire Size (mm ²)		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
1000	1.0	6.6	40/20	75/40	12	23	10/4	25/10	6/6	10/6	23
	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
1150	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
	1.75	13.2	75/40	125/75	24	47	25/10	50/25	10/6	25/10	46
1350	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
1600	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	45
	1.75	18.3	75/50	150/100	32	64	29/16	70/35	10/6	25/16	61

- ▲ 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.

$$\text{Cable sizes(mm}^2\text{)} = \frac{\text{Cable length(m)}}{50} \times \text{Size in the above(mm}^2\text{)}$$

 3. For power requirement of 3 cars or more, consult Hyundai.

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 (mm ²) (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	25	35	50	70	95	120
		380V Class	60	6	16	25	25	35	35
		440V Class	50	6	10	16	16	25	25
11×2	36	200V Class	175	25	50	95	120	120	150
		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	10	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

Speed	Escalator						Moving Walks			
	0.5m/sec						0.5m/sec			
	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	56.7	75.7	2.4	3.4
7.5	4.7	5.4	8.1	4.7	5.4	6.0	77.4	90.0	3.5	4.8
11	7.0	7.9	12.4	6.0	6.0	-	90.0	-	5.3	7.3
15	9.5	11.3	14.0	-	-	-	-	-	7.0	9.0
11×2	12.4	16.6	-	-	-	-	-	-	9.0	-
15×2	17.0	20.0	-	-	-	-	-	-	-	-
18.5×2	20.0	-	-	-	-	-	-	-	-	-

- ▲ Notes : 1. These are based on the commercial type. Consult Hyundai for the public type.
 2. In case of the inclination of 0°, maximum rise means maximum floor opening AA.

Lighting Power

Balustrade Type	Vertical Rise (m)	Power Supply Capacity (kVA)	Power Supply Voltage (AC-1Phase)	C.B Rated Current (A)	Power Feeder(mm ²)					
					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.