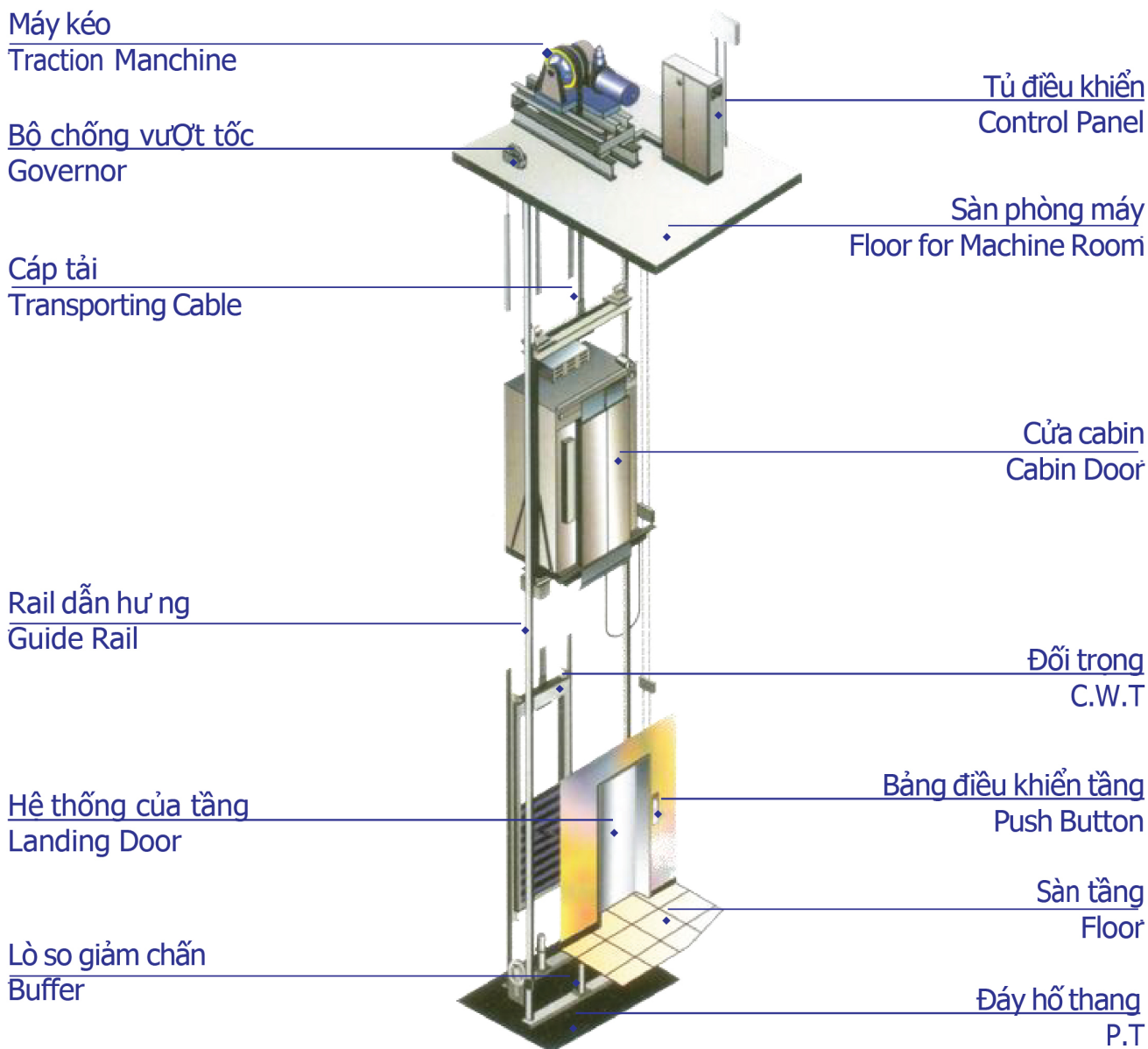


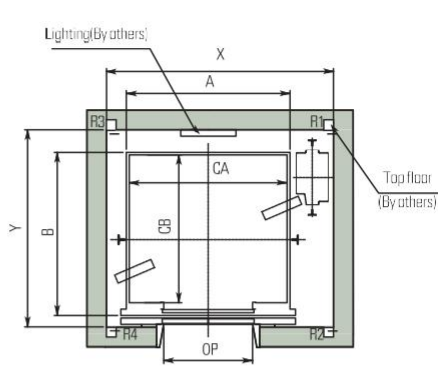
Cấu Trúc Tổng Quan (Thang Không Phòng Máy) Overview Structure (Non Machine Room Type)



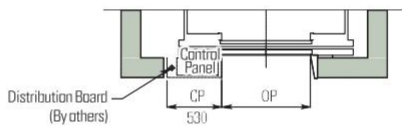
Cấu Trúc Tổng Quan (Thang Có Phòng Máy) Overview Structure (Machine Room Type)



Mặt Bằng Hồ Thang Không Phòng Máy (8~17 Người) Plan of Hoistway & Machine Room (8~17 Person)

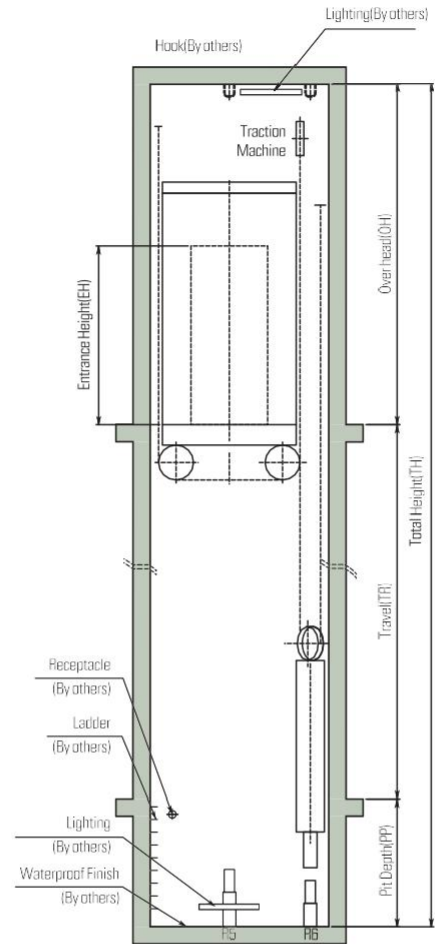


Floor without control panel

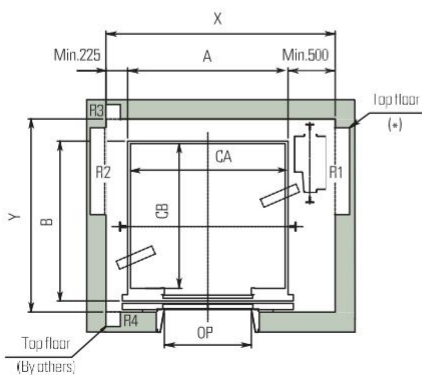


Floor with control panel

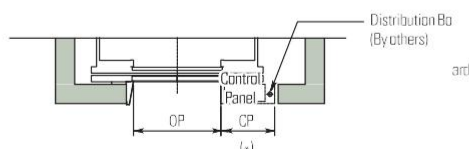
Note: The lighting of hoistway should be installed less than 500 mm from above the ceiling of hoistway and within 500 mm above the bottom of the pit. (By others)



Plan of Hoistway & Machine Room (20, 24 Person)



Floor without control panel



Floor with control panel

Kích Thước Tiêu Chuẩn (8~17 Người) Standard Dimension (8~17 Person)

(Unit: mm)

Speed (m/min)	Capacity		Clear Opening OP	Car		Hoistway		Motor (kW)
	Persons	kg		Internal CA×CB	External A×B	1 Car X	Depth Y	
60	8	550	800	1300×1100	1360×1255	2050	1700	3.4
90								5.1
105								5.9
60	9	600	800	1300×1190	1360×1345	2050	1800	3.7
90								5.6
105								6.5
60	10	700	800	1300×1300	1360×1455	2050	1800	4.3
90								6.5
105								7.5
60	11	750	800	1300×1400	1360×1555	2050	1850	4.6
90								6.9
105								8.1
60	13	900	900	1600×1300	1660×1455	2300	1800	5.6
90				1500×1400	1560×1555	2200	1850	8.3
105								9.7
60	15	1000	900	1600×1400	1660×1555	2300	1900	6.2
90							(2100)	9.2
105								10.8
60	17	1150	1000	1800×1400	1900×1570	2600	2100	7.1
90								10.6
105								12.4

- Notes:
1. The dimension in () is for the heavy car weight such as the car floor using finished granite.
 2. When non-standard capacities and dimensions (including fire protection doors) are required to meet the local code, please consult Hyundai.
 3. The minimum hoistway dimensions are shown on the above table. Therefore, some allowances should be made considering the sloping of the hoistways.
 4. In case of elevator for disable, the dimension of CA is more than 1600 mm, CB more than 1350 mm.
 5. If the height of floor is over 11 m, please consult Hyundai as to the needs for emergency exit.
 6. Above dimensions are applied to standard door only. In case fire protection door is applied, hoistway size for 1 car should be applied above X1 dimensions plus 100 mm and over.

I Standard Dimensions (20, 24 Person)

(Unit: mm)

Speed (m/min)	Capacity		Clear opening OP	Car		Hoistway		Motor (kW)
	Person	kg		Internal CA×CB	External A×B	1 Car X	Depth Y	
60	20	1350	1000	1800×1600	1900×1770	2625	2400	8.3
90								12.5
105								14.5
60	24	1600	1100	2000×1700	2100×1870	2825	2450	9.9
90								14.8
105								17.2

Persons	Speed (m/min)	Overhead (OH)	Pit (PP)	Control panel (CP)(*)
8~17	60	3800	1500	530
	90	3900	1800	
	105	4000	2100	
20,24	60	4200	1500	530
	90	4350	1800	630
	105	4450	2100	630

- Notes:
1. When non-standard capacities and dimensions 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. Consult Hyundai if the emergency stop device is installed on the counterweight.

I Phản Lực / Reactions

(Unit: mm)

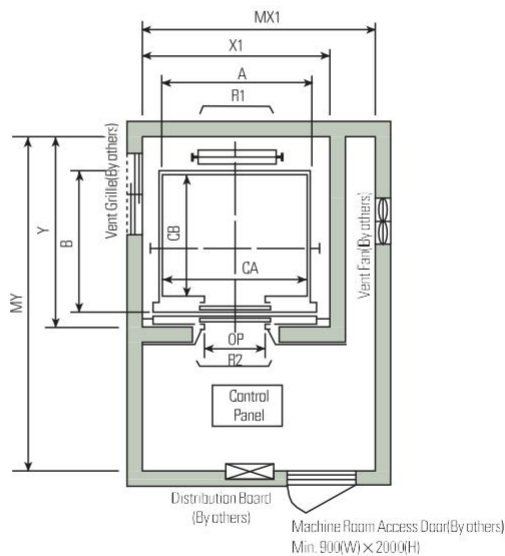
Persons	M/C Room Reaction(kg)				Pit Reaction(kg)			
	R1	R2	R3	R4	R5		R6	
					Speed (m/min)		Speed (m/min)	
8~17	8000	3500	1500	3000	Under 60	10000	Under 60	8000
					90.105	14000	90.105	12000
20,24	14000	3800	1500	4500	Under 60	12000	Under 60	9500
					90.105	21500	90.105	17500

- Notes:
1. The minimum dimensions for the standard are shown on the above table. Consult Hyundai in case of non-standard.
 2. Consult Hyundai if the hoistway is steel structure.

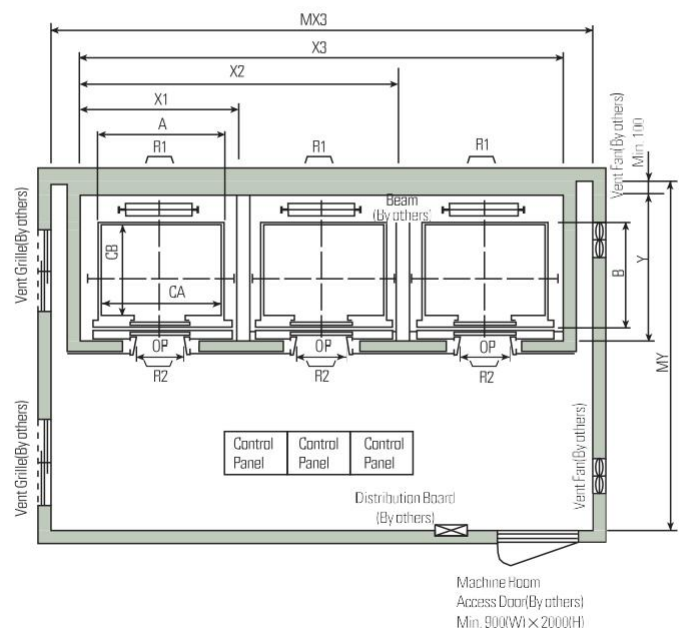
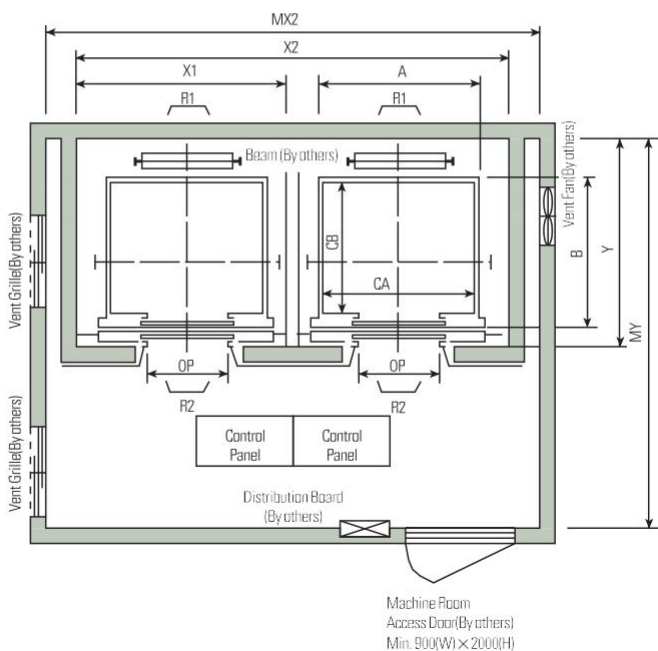
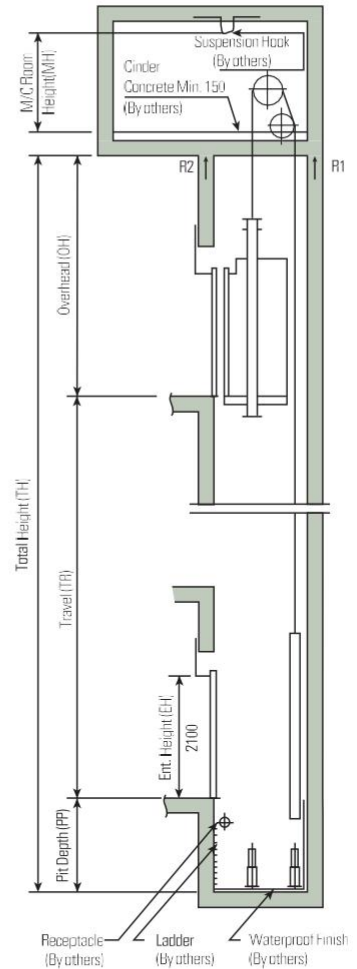
- Notes:
1. Above dimensions are applied for car height of 2500 mm (car internal height is 2300 mm). For other applicable dimensions, consult Hyundai.
 2. For car internal height (under 17 persons) of 2500 mm, dimension of overhead is OH plus 200mm.
 3. If the dimension between the wall of hoistway and car external dimensions (A, B) is in excess of over 850 mm, the dimension of overhead is OH plus 200mm.
 4. The minimum hoistway dimensions are shown on the above table. Therefore, some allowances should be made considering the sloping of the hoistways.
 5. When face to face arrangement is required, partitioning work for hoistway is required.
 6. If the hoistway is glass, consult Hyundai as it needs to finish joining glass.
 7. The lighting should be installed at the top and bottom of hoistway.

Mặt Bằng Hồ Thang & Phòng Máy Plan Of Hoistway & Machine Room

Mặt Đứng Hồ Thang Section of Hoistway



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



Kích Thước Tiêu Chuẩn & Phản Lực Standard Dimension & Reactions

(Unit:mm)

Speed (m/min)	Capacity		Clear Opening	Car		Hoistway			M/CRoom				M/C Room		
				Internal	External	1Car	2Cars	3Cars	Depth	1Car	2Cars	3Cars	Depth	Reaction(kg)	
	Persons	kg	OP	CA × CB	A × B	X1	X2	X3	Y	MX1	MX2	MX3	MY	R1	R2
60		450	800	1400×850	1460×1005	1800	3700	5600	1430	2000	4000	6000	3200	3600	2000
	8	550	800	1400×1030	1460×1185	1800	3700	5600	1610	2000	4000	6000	3400	4050	2250
	9	600	800	1400×1130	1460×1285	1800	3700	5600	1710	2000	4000	6000	3500	4100	2450
	10	700	800	1400×1250	1460×1405	1800	3700	5600	1830	2000	4000	6000	3600	4200	2700
	11	750	800	1400×1350	1460×1505	1800	3700	5600	1930	2000	4000	6000	3700	4550	2800
90	13	900	900	1600×1350	1660×1505	2050	4200	6350	1980	2300	4400	6800	3750	5100	3750
	15	1000	900	1600×1500	1660×1655	2050	4200	6350	2130	2300	4400	6800	3850	5450	4300
	17	1150	1000	1800×1500	1900×1670	2350	4800	7250	2180	2600	4900	7500	3900	6600	5100
1100			2000×1350	2100×1520	2550	5200	7850	2030	2800	5250	8300	3800			
105	20	1350	1000	1800×1700	1900×1870	2350	4800	7250	2380	2600	4900	7500	4200	7800	6000
			1100	2000×1500	2100×1670	2550	5200	7850	2180	2800	5250	8300	4000		
	24	1600	1100	2000×1750	2100×1920	2550	5200	7850	2430	2900	5400	8300	4300	8500	6800
			1100	2150×1600	2250×1770	2700	5500	8300	2280	3000	5650	8700	4200		

- Notes:**
- Above hoistway dimensions are based on 15-storied buildings. For application to over 16-storied buildings, the hoistway dimensions shall be at least 5% larger considering the sloping of the hoistways.
 - Above dimensions are based on center opening doors. For applicable dimensions with side opening doors, consult Hyundai.
 - When non-standard capacities and dimensions are required to meet the local code, consult Hyundai.
 - The capacity in persons is calculated at 65kg/person. (EN81:75kg/person)
 - Above dimensions are applied in case the door is standard. In case fire protection door is applied, hoistway size for 1 car should be applied above. X1 dimension plus 100mm.

(Unit:mm)

Speed (m/min)	Overhead (OH)	Pit (PP)	M/CRoom Height (MH)
60	4600	1500	2200
90	4800	1800	2400
105	5000	2100	2400

- Note:** The minimum hoistway dimensions are shown on the above table.
Therefore, some allowances should be made considering the sloping of the hoistways.