



Moving solutions with safety, reliability and efficiency

Freight & Automobile Elevators



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Hyundai's Automobile and Freight elevators are designed using state-of-the-art technology

Hyundai Elevator Co., Ltd., an affiliate of Hyundai Business Group, has been designing and manufacturing a wide range of automobile and freight elevators, the reliability and sturdiness of which have been well proven through stringent test at the factory and decade-long experience of field engineering.

Automobile elevators are designed to give great convenience to the automobile drivers by reducing the time to find parking spaces which becomes less and less available in a crowded urban life. A wide range of models of freight elevators are designed to handle from lightweight cargoes to heavy loads such as forklifts.

Both automobile and freight elevators are designed with Hyundai's state-of-the-art technology such as inverter type Variable Voltage Variable Frequency (VVVF), and a hydraulic type by using hydraulic jack for elevator moving.



Specific Features

- | General type |**
 - Accurate landing, smooth acceleration and deceleration, comfortable riding, low-noise operation
 - 40% energy saving (compared to conventional AC control system)
 - 40% reduction in building power requirements (compared to conventional AC control system)
 - High reliability with enhanced operation in all respects (All functions are controlled by computer and frequency of machine breakdown rates minimized)
 - Self-checking system built-in inside computer
- | Hydraulic type |**
 - Smaller installation space than traction (rope) elevators requires
 - Greater advantages for construction design (Because machine rooms can be made anywhere in the building except in the shaft)
 - Accurate landing and comfortable riding
 - High reliability (If power fails, the car moves down to the bottom floor automatically)
 - Enhanced safety (Safety device cuts off the flow of oil when the descending speed of car exceeds the pre-determined speed)

FREIGHT ELEVATORS

Car Design

Entrance Design



FU-S



FU-S

FS-P



FU-S

Ceiling	CD100, Painted Steel (P021), Acryl
Wall	STS Hairline
Door	STS Hairline
OPB	OPP-D241B / STS Hairline
Flooring	Check Plate

FS-P

Ceiling	CD100, Painted Steel (P009), Acryl
Wall	Painted Steel (P009)
Door	Painted Steel (P009)
OPB	OPP-N241B / STS Hairline
Indicator	PI-D110
Flooring	Check Plate

FSC-P

Ceiling	CD100, Painted Steel (P019), Acryl
Wall	Painted Steel (P019)
Door	Painted Steel (P019)
OPB	OPP-N241B / STS Hairline
Indicator	PI-D110
Flooring	Check Plate

FS-P



FU-S

Door	STS Hairline
Jamb	STS Hairline / 110 Type
Indicator	Dot Matrix Type

FS-P

Door	Painted Steel (P009)
Jamb	Painted Steel (P009)
Indicator	Dot Matrix Type

FSC-P

Door	Painted Steel (P019)
Jamb	Painted Steel (P019)
Indicator	Dot Matrix Type

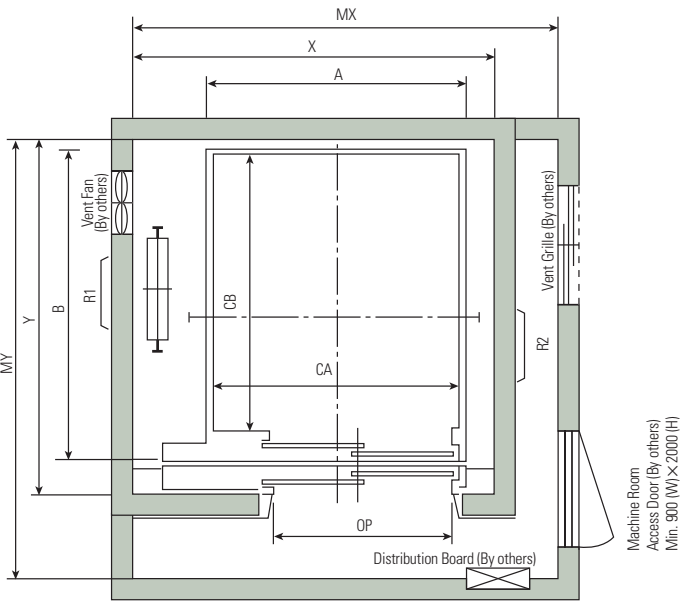
FSC-P



FREIGHT ELEVATORS

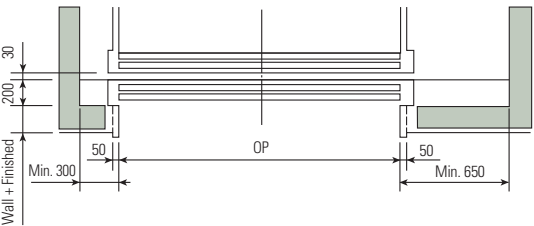
General Type (2S, 2U, 3U)

Plan of Hoistway & Machine Room



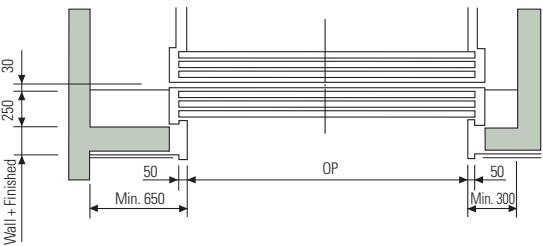
2-PANEL SIDE-OPENING DOORS (2S)

Note : 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

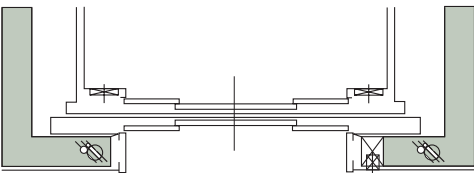
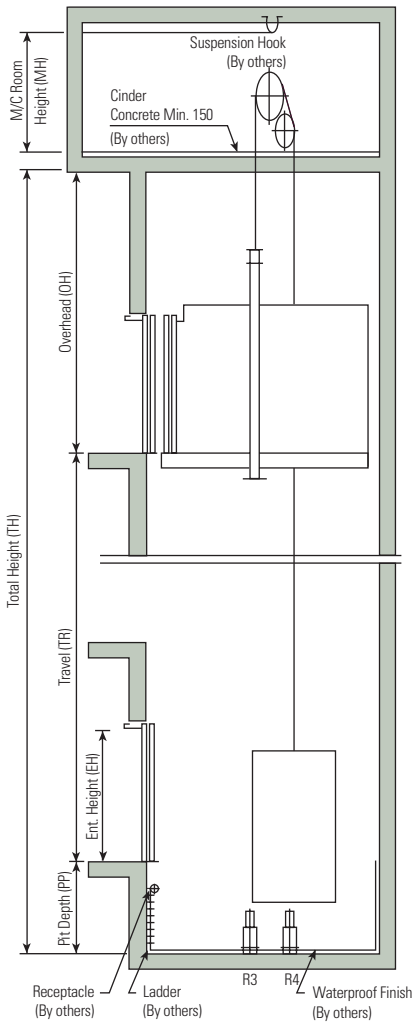


3-PANEL UP-SLIDING DOORS (3U)

- Minimum floor height : $\text{Opening height} \times 4/3 + 750\text{mm}$
- Minimum entrance height : 2100mm

Note : Consult Hyundai if the dimensions are less than the minimum.

Section of Hoistway



4-PANEL CENTER OPENING DOORS (2CO)

Standard Dimensions & Reactions

(Unit : mm)

Model	Speed (m/min)	Door Opening Type	Entrance		Car		Hoistway		M/C Room (MX x MY)	M/C Room Reaction (kg)		Buffer Reaction (kg)	
			Width x Height (OP x EH)	Entrance Type	Internal CA x CB	External A x B	X x Y	Overhead (OH)		R1	R2	R3	R4
F0750-2S	30	2S	1100 x 2100	Standard	1700 x 1650	1800 x 1857	2500 x 2150	4800	2800 x 3200	6200	4100	5000	4300
	45			Double Entrance		1800 x 1989							
	60			Double Entrance		1800 x 2320							
F1000-2S	30	2S	1400 x 2100	Standard	1850 x 1850	1950 x 2078	2750 x 2400	4800	3200 x 3500	8500	5700	7100	6100
	45			Double Entrance		1950 x 2226							
	60			Double Entrance		2750 x 2600							
F1500-2S	30	2S	1700 x 2100	Standard	2100 x 2500	2200 x 2728	3000 x 3050	4800	3600 x 4000	10800	7100	9000	7500
	45			Double Entrance		2200 x 2876							
	60			Double Entrance		3000 x 3250							
F2000-2S	30	2S	1700 x 2100	Standard	2300 x 2700	2400 x 2928	3300 x 3250	4800	3800 x 4200	13300	8800	11400	9400
	45			Double Entrance		2400 x 3076							
	60			Double Entrance		3300 x 3450							
F2000-2U	30	2U	2300 x 2100	Standard	2300 x 2700	2400 x 2898	3300 x 3250	4600	3800 x 4200	13300	8800	11400	9400
	45			Double Entrance		2400 x 3016							
	60			Double Entrance		3300 x 3490							
F2500-2S	30	2S	1800 x 2100	Standard	2500 x 3000	2600 x 3228	3500 x 3600	4800	4000 x 4400	15100	10000	13200	10700
	45			Double Entrance		2600 x 3376							
	(60)			Double Entrance		3500 x 3750							
F2500-2U	30	2U	2500 x 2100	Standard	2500 x 3000	2600 x 3198	3500 x 3600	4600	4000 x 4400	15100	10000	13200	10700
	45			Double Entrance		2600 x 3316							
	(60)			Double Entrance		3500 x 3800							
F3000-2U	30	2U	2700 x 2300	Standard	2700 x 3300	2800 x 3498	3700 x 3900	4800	4200 x 4800	15200	10100	13500	10500
	45			Double Entrance		2800 x 3616							
				Double Entrance		3700 x 4100							
F3500-2U	30	2U	2800 x 2500	Standard	2800 x 3800	3020 x 3998	4050 x 4400	5000	4300 x 5200	21700	14500	19000	15500
	45			Double Entrance		3020 x 4116							
				Double Entrance		4050 x 4600							
F4000-3U	25	3U	3000 x 2800	Standard	3000 x 4500	3220 x 4758	4250 x 5250	5300	4500 x 5900	32500	21700	28700	23700
	30			Double Entrance		3220 x 4936							
				Double Entrance		4250 x 5520							
F5000-3U	25	3U	3200 x 3000	Standard	3200 x 5000	3420 x 5258	4450 x 5750	5500	4700 x 6400	36000	23000	31700	26700
	30			Double Entrance		3420 x 5436							
				Double Entrance		4450 x 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.

(Unit : mm)

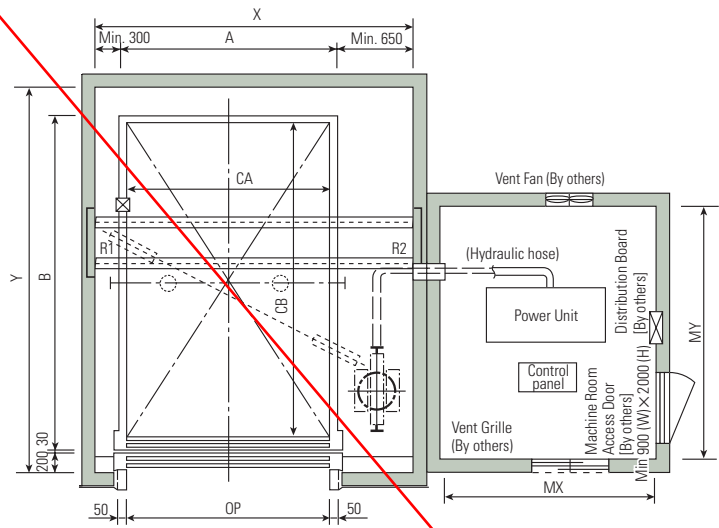
Speed (m/min)	Pit (PP)	M/C Room Height (MH)
30 / 45	1250	2400
60	1500	2600

- Notes :
1. Above is minimum size.
 2. Refer to standard dimensions & reactions for overhead height.

FREIGHT ELEVATORS

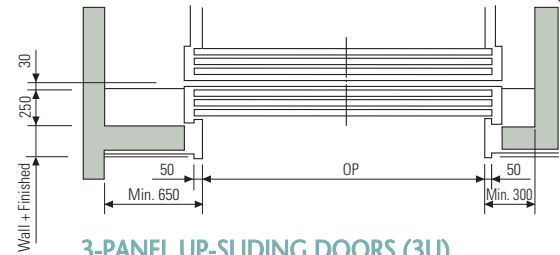
Hydraulic Type (2S, 2U, 3U)

Plan of Hoistway & Machine Room



2-PANEL UP-SLIDING DOORS (2U)

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

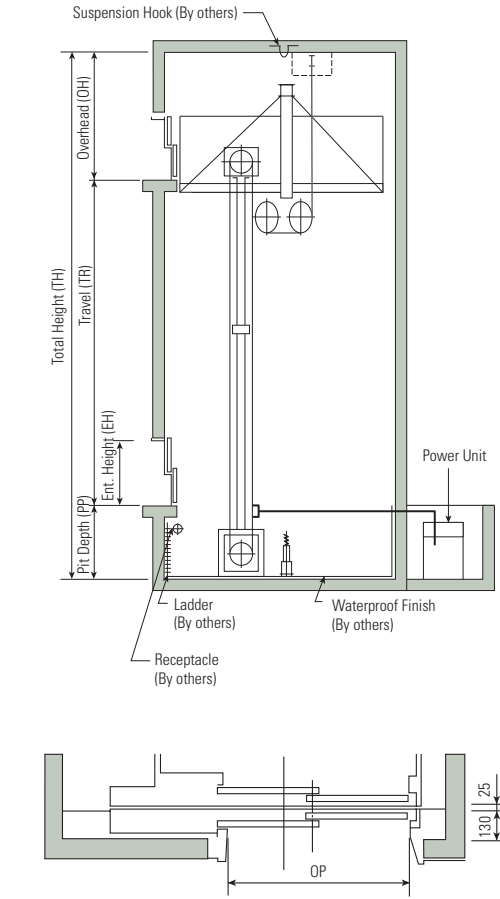


3-PANEL UP-SLIDING DOORS (3U)

- Minimum floor height : $\text{Opening Height} \times 4/3 + 750\text{mm}$
- Minimum entrance height : 2100mm

- Notes :
- Consult Hyundai if the actual size is less than the above minimum floor height.
 - The left and right minimum size should be 650mm and 300mm respectively for the installation of driving part.

Section of Hoistway



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%.
 - The above are minimum size.
 - The overhead height can be varied in line with entrance height and door type.
 - Consult Hyundai if the travel height is 20m or more.

Standard Dimensions & Reactions

Model	Speed (m/min)	Clear Opening OP	Entrance Height EH	Car		Hoistway X×Y	M/C Room MX×MY	Hitch Beam Reaction (kg)	
				Internal CA×CB	External A×B			R1	R2
HF1500-2U	20 / 30 / 45	2100	2100	2100×2500	2200×2698	3050×3100	2500×2800	4200	400
HF2000-2U		2300	2100	2300×2700	2400×2898	3250×3300	2500×2800	4800	400
HF2500-2U		2500	2100	2500×3000	2600×3198	3450×3600	2500×2800	5400	400
HF3000-2U		2700	2300	2700×3300	2800×3498	3650×3900	2500×2800	6000	450
HF3500-2U	20 / 30	2800	2500	2800×3800	2900×3998	4000×4450	2800×3200	7900	750
HF4000-3U		3000	2800	3000×4500	3100×4758	4200×5250	2800×4200	8800	900
HF5000-3U		3200	3000	3200×5000	3300×5258	4400×5750	2800×4200	10500	1050

- Notes :
- Please consult Hyundai when the loading capacity is over 5000kg or the car is non-standard size.
 - The loading capacity should be over 250kg/m² minimally.
 - The actual reaction may slightly differ from above dimensions in line with machine beam position.
 - Above dimensions are based on up-sliding door available for 2-panel side-opening (2S) doors of same capacity.

FREIGHT / AUTOMOBILE ELEVATORS

Signal Fixtures

OPB



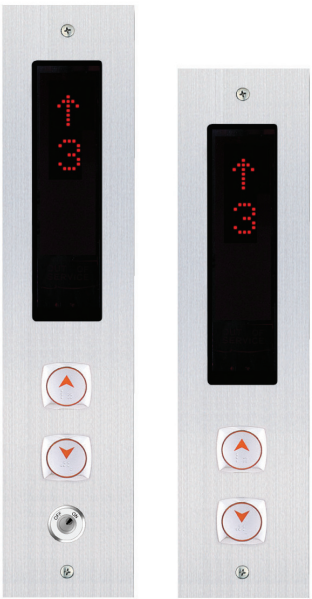
OPP-D240B

Note : Door switch is optional.

Indicator



PI-D110

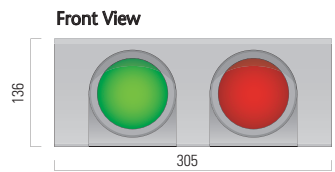


HIP-D240



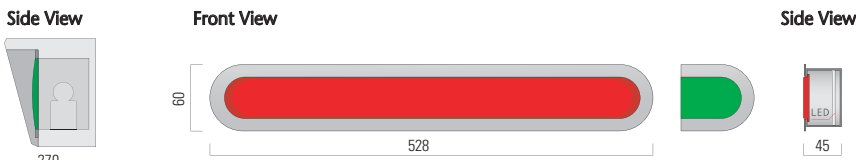
HIP-D240F

Indicator Lamp



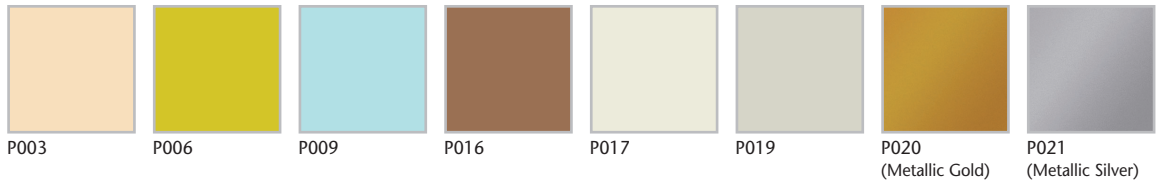
Standard Type

Note : Indicator lamp is for automobile elevators.

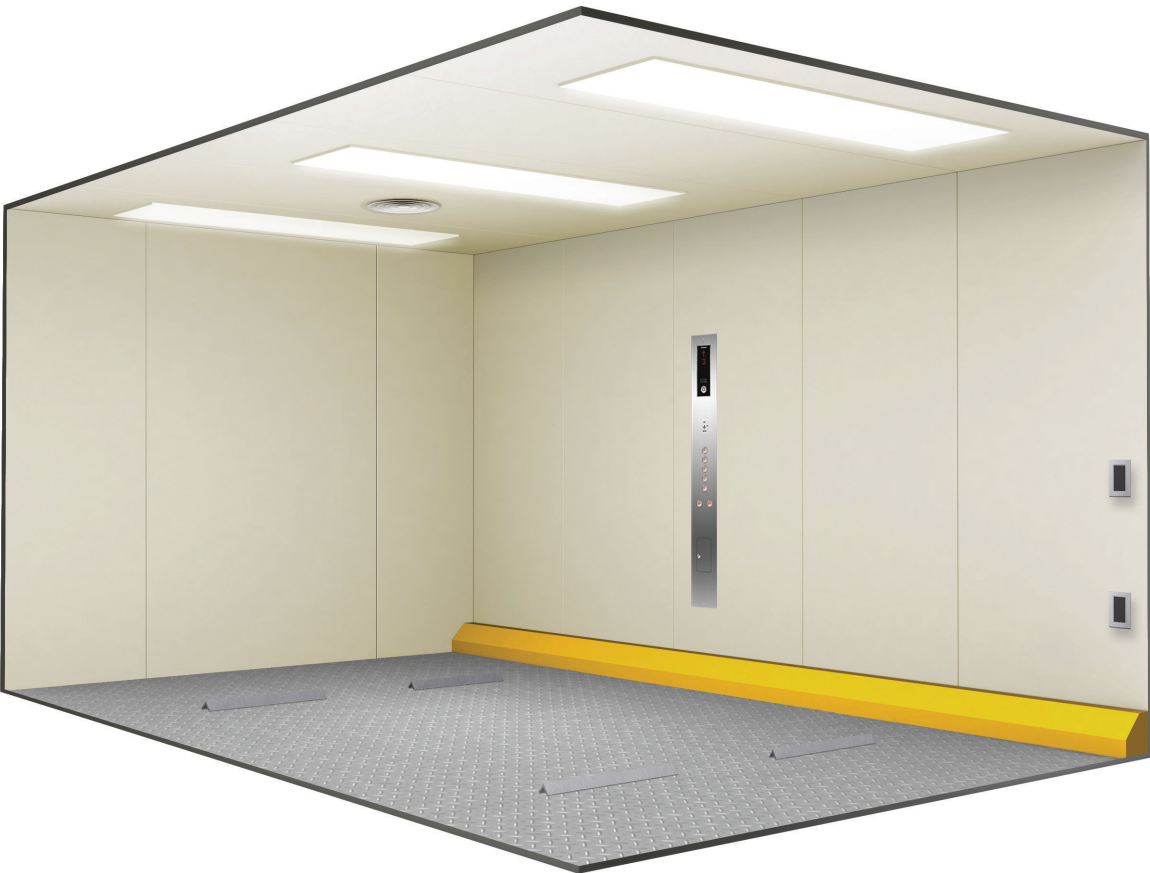


Optional Type

Color Chip



Note : Finished product may vary slightly from these prints.



AM-P

AM-P

Ceiling	CD100, Painted Steel (P017), Acryl
Wall	Painted Steel (P017)
OPB	OPP-D241B / STS Hairline
Flooring	Check Plate

Door	Painted Steel (P017)
Jamb	Painted Steel (P017) / 110 Type
Indicator	Dot Matrix Type
Signal Fixtures	STS Hairline, Acryl



Rear door type



Signal Provisions

1. Indicator lamp

- 1) Indicator lamp for entry (Green)
 - When the doors open completely but photo sensor in the cage doesn't detect the automobile, the green lamp is turned on to signal the automobile to make an entry.

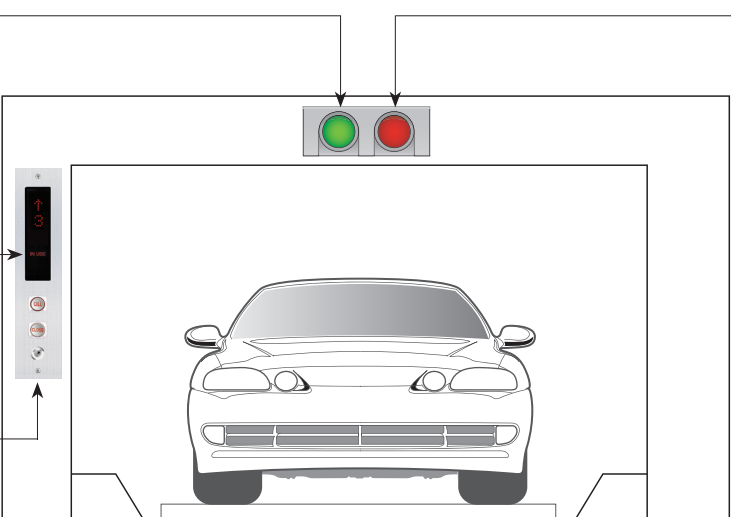
- 2) Indicator lamp for stop (Red)
 - When the door opening / closing is activated.
 - When the automobile is at the right position in the cage.
 - When the elevator is running.

2. "IN USE" lamp (Red)

- When the hall is registered;
- Informing that the elevator is in use as "IN USE" lamp of the hall indicators is turned on.
- When the elevator is running

3. Hall position indicator

- Hall call button, door close button, and position indicators are available.

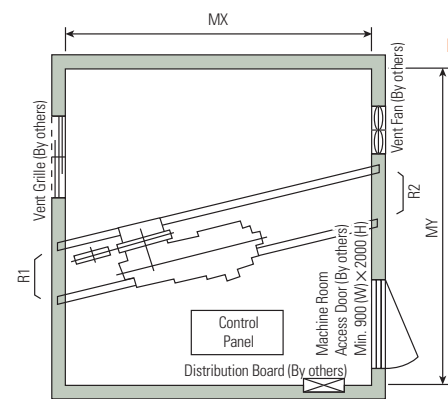


General Type (2U, 3U)

Technical drawing of a door frame assembly. The drawing shows a cross-section of the frame with various dimensions and labels. Key dimensions include:

- X**: Total width of the frame assembly.
- A**: Width of the inner frame opening.
- 600**: Distance from the left edge of the frame to the center of the door.
- Y**: Total height of the frame assembly.
- B**: Height of the inner frame opening.
- R1**: Radius of the top-left corner of the inner frame.
- R2**: Radius of the top-right corner of the inner frame.
- 30**: Thickness of the top frame rail.
- 200**: Height of the bottom frame rail.
- 50**: Thickness of the side frame rails.
- Min. 650**: Minimum total width of the door.
- Min. 900**: Minimum total height of the door.
- OP**: Width of the door opening.
- CA**: Width of the door panel.
- CB**: Height of the door panel.
- ORB**: Location of the door handle.

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

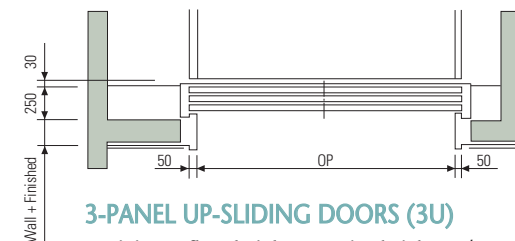


(Unit : mm)

Speed (m/min)	Overhead (OH)	Pit (PP)	M/C Room Height (MH)
30 / 45	4400	1200	2400

The diagram illustrates the vertical components and dimensions of a manhole structure. Key elements include:

- Suspension Hook (By others):** Located at the top of the structure.
- Cinder Concrete Min. 150 (By others):** A layer below the suspension hook.
- M/C Room Height (MH):** The height of the manhole chamber.
- Overhead (OH):** The height from the top of the manhole chamber to the top of the structure.
- Travel (TR):** The height from the bottom of the manhole chamber to the top of the structure.
- Total Height (TH):** The total height of the structure.
- Receptacle (By others):** Located at the bottom of the structure.
- Ladder (By others):** A vertical access point at the bottom.
- Waterproof Finish (By others):** A finish at the bottom of the structure.
- Dimensions:**
 - Ent. Height (EH):** The height of the entrance.
 - 1800:** A specific height dimension.
 - Pit Depth (PD):** The depth of the pit.



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

Type	Model	Speed (m/min)	Clear Opening	Car		Hoistway	M/C Room	M/C Room Reaction (kg)	
				Internal	External			R1	R2
			OP	CA × CB	A × B	X × Y	MX × MY		
Standard Type	A2000-2U	30 / 45	2350	2350×5300	2450×5350	3300×5800	3300×5800	17500	12000
	A2500-2U		2750	2750×6300	2850×6350	3700×6800	3850×6800	22500	12500
	A2000-3U		2350	2350×5300	2450×5350	3300×5800	3300×5800	17500	12000
	A2500-3U		2750	2750×6300	2850×6350	3700×6800	3850×6800	22500	12500
Double Entrance Type	A2000-2UD		2350	2350×5300	2450×5300	3300×5800	3300×5800	17500	12000
	A2500-2UD		2750	2750×6300	2850×6300	3700×6800	3850×6800	22500	12500
	A2000-3UD		2350	2350×5300	2450×5300	3300×5800	3300×5800	17500	12000
	A2500-3UD		2750	2750×6300	2850×6300	3700×6800	3850×6800	22500	12500

The technical drawing illustrates the Machinery Room with various dimensions and components labeled:

- Dimensions:**
 - X:** Total width dimension.
 - A:** Width from left wall to start of door frame.
 - Min. 550:** Minimum clear width at the door threshold.
 - Y:** Total height dimension.
 - B:** Height from floor to top of door frame.
 - 200-30:** Vertical clearance above the door frame.
 - OP:** Door opening width.
 - 50:** Distance from side walls to the door frame.
- Internal Components and Labels:**
 - CA:** Clear area within the room.
 - CS:** Clearance space near the door.
 - R1, R2:** Radiused corners or specific structural points.
 - OPB:** Opening Protection Bar.
 - Vent Fan (By others):** Located at the top right.
 - (Hydraulic hose):** Connecting the Power Unit to the Machine Room.
 - Power Unit:** A large rectangular component.
 - Distribution Board (By others):** Electrical control unit.
 - Control panel:** Operator interface.
 - Vent Grille (By others):** Ventilation outlet at the bottom.
 - Machine Room Access Door (By others) Min. 900 (W) x 2000 (H):** The main entrance to the machinery room.
 - MX:** Dimension related to the access door.
 - MY:** Dimension indicating the depth or offset of the access door.

Technical drawing of a window frame showing dimensions and labels:

- Vertical dimensions on the left: 30, 250, and Wall + Finished.
- Horizontal dimensions at the bottom: 50, Min. 650, OP, 50, and Min. 300.

Speed (m/min)	Overhead (OH)	Pit (PP)	M/C Room Height (MH)	Travel (TR)
20 / 30 / 45	3600	1200	2000	20m

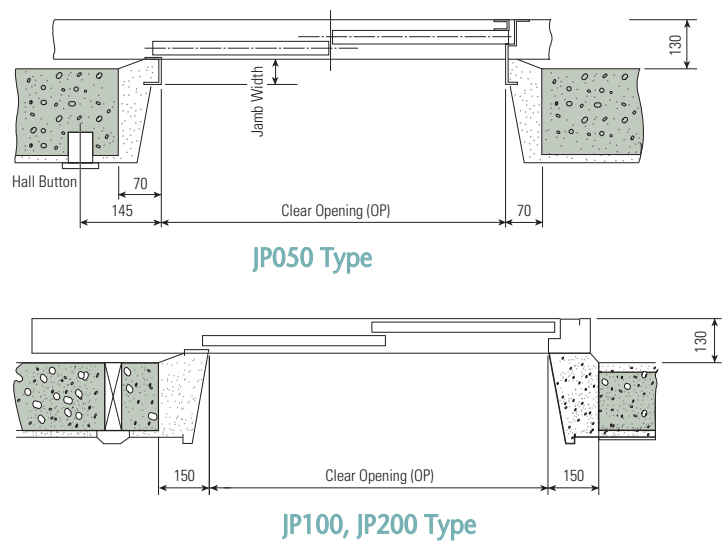
Unit : mm)

Type	Model	Speed (m/min)	Clear Opening	Car		Hoistway	M/C Room	M/C Room Reaction (kg)	
				Internal	External			R1	R2
				OP	CA × CB				
Standard Type	HA2000-2U	20 / 30 / 45	2350	2350×5300	2450×5350	3300×5800	2500×2800	5500	250
	HA2500-2U		2750	2750×6300	2850×6350	3700×6800	2500×2800	6400	300
	HA2000-3U		2350	2350×5300	2450×5350	3300×5800	2500×2800	5500	250
	HA2500-3U		2750	2750×6300	2850×6350	3700×6800	2500×2800	6400	300
Double Entrance Type	HA2000-2UD		2350	2350×5300	2450×5300	3300×5800	2500×2800	5500	250
	HA2500-2UD		2750	2750×6300	2850×6300	3700×6800	2500×2800	6400	300
	HA2000-3UD		2350	2350×5300	2450×5300	3300×5900	2500×2800	5500	250
	HA2500-3UD		2750	2750×6300	2850×6300	3700×6900	2500×2800	6400	300

3

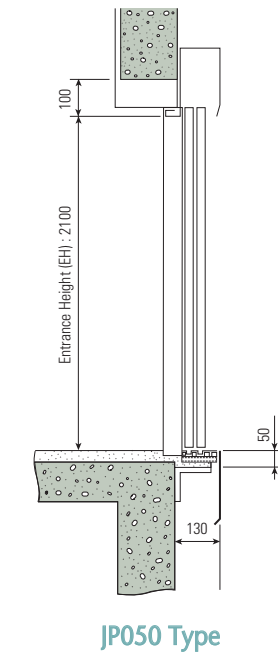
2-PANEL SIDE-OPENING DOORS (2S)

Plan of Entrance



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

Section Entrance



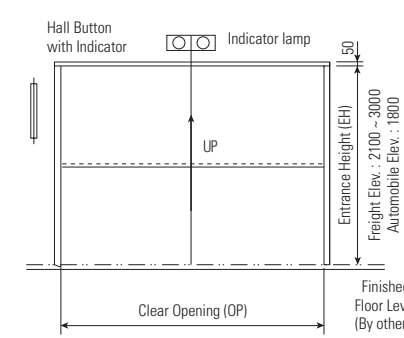
General Type

(50/60Hz, AC 380V)

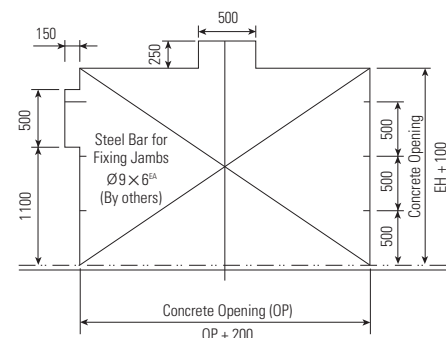
Capacity (kg)	Speed (m/min)	Motor (kW)	N.F.B. Rated Current (A)		Transformer Capacity (kVA)		Power Feeder (mm²)		Earth Wire (mm²)	
			1car	2cars	1car	2cars	1car	2cars	1car	2cars
1500	30	7.5	30	50	8	14	6	16	4	6
	45	11	30	60	12	21	6	16	4	10
	60	15	40	100	15	28	10	35	6	10
2000	30	11	30	60	10	19	6	16	4	10
	45	15	40	100	15	28	10	35	6	10
	60	22	60	125	21	37	16	50	10	16
2500	30	15	40	75	13	23	10	25	6	10
	45	18.5	50	100	19	35	16	35	6	10
3000	30	15	40	100	15	28	10	35	6	10
	45	22	60	125	23	42	16	50	10	16
3500	30	18.5	50	100	18	33	16	35	6	10
	45	30	75	125	27	49	25	50	10	16
4000	25	22	60	100	17	31	16	35	10	10
	30	22	60	125	21	37	16	50	10	16
5000	25	30	75	125	21	39	25	50	10	16
	30	30	75	125	26	46	25	50	10	16

2-PANEL UP-SLIDING DOORS (2U)

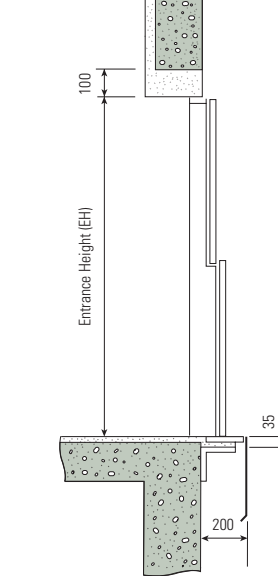
Entrance Design



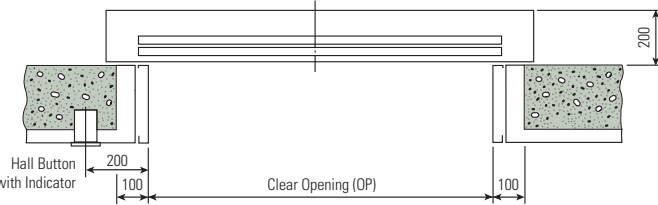
Structural Opening of Entrance



Section of Entrance



Plan of Entrance

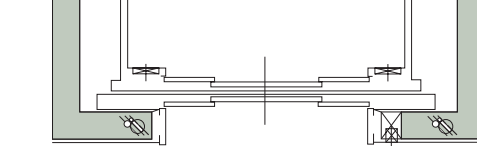


- Minimum floor height : Opening Height × 3/2 + 700mm
- Minimum entrance height : 1800mm

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 (2CO)

Plan of Entrance



Hydraulic Type

(50/60Hz, AC 380V)

	Capacity (kg)	Speed (m/min)	Motor (kW)	N.F.B. Rated Current (A)		Transformer Capacity (kVA)		Power Feeder (mm²)		Earth Wire (mm²)		Heat Emission of M/C Room (kcal/h)		Ventilation of Machine Room (m³/h)	
				1car	2cars	1car	2cars	1car	2cars	1car	2cars	1car	2cars	1car	2cars
Freight	1500	20	30	100	175	49	90	25	70	6	10	5500	11000	1900	3800
		30	44	150	250	72	130	35	120	10	25	8500	17000	2900	5800
		45	59	200	350	94	171	70	185	10	25	10900	21800	4100	8200
	2000	20	30	100	175	49	90	25	70	6	10	5500	11000	1900	3800
		30	44	150	250	72	130	35	120	10	25	8500	17000	2900	5800
	2500	45	59	200	350	94	171	70	185	10	25	10900	21800	4100	8200
		20	37	125	225	62	113	35	95	6	10	6900	13800	2300	4600
	3000	30	52	175	300	81	148	50	150	10	25	9700	19400	3500	7000
		20	52	175	300	81	148	50	150	10	25	9700	19400	3500	7000
	3500	30	59	200	350	94	171	70	185	10	25	10900	21800	4100	8200
		20	52	175	300	81	148	50	95	10	25	9700	19400	3500	7000
		30	74	225	400	107	193	95	185	16	25	13800	27600	4600	9200
Auto-moblie	2000	20	30	100	175	49	90	25	70	6	10	5500	11000	1900	3800
		30	44	150	250	72	130	35	120	10	25	8500	17000	2900	5800
	2500	20	37	125	225	62	113	35	95	6	10	6900	13800	2300	4600

Notes : 1. The above power feeder sizes are based on its maximum length 50m. In case the feeder length from the transformer to the elevator machine room exceeds 50m, apply the following formular.
2. The feeder sizes are based on using copper conductors and metallic conduit. Feeder Size (mm²) = $\frac{\text{Feeder Length (m)}}{50} \times \text{size shown above}$
3. For power requirements of 3 cars or more, consult Hyundai.
4. The heat emission and ventilation of machine room on above dimensions may vary slightly with the machine room size and peripheral environment.
5. Consult Hyundai if you need electric power requirements for 220V.



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