

version: 2011/12



A HYUNDAI

Elevators manufactured by:

Hyundai Elevator Co., Ltd.

International Trade Division:

Factories :

8F East Bldg., Hyundai Group Building, 1-7 Yeonji-Dong, Jongno-Gu, Seoul 110-754, Korea Phone No.: 0082-2-3670-0665 Email: overseas@hyundaielevator.co.kr Website: www.hyundaielevator.co.kr

Shanghai, China Inchon-shi, Korea

Elevators marketed, installed and maintained in India by:

Kinetic Hyundai Elevator & Movement Technologies Ltd.

Head Office & Pune Area Office:

G-92, D-III Block, MIDC, Chinchwad Pune - 411 019 INDIA

Website: www.kinetic-hyundai.com

Phone: +91 20 64108986/87

Bengaluru Chandigarh Chennai Delhi Gurgaon Email: info@kinetic-hyundai.com

Hyderabad Jaipur Kolkata Mumbai

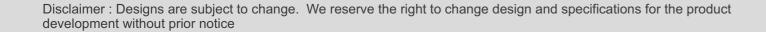
> Patiala Sonipat Thirupathi Zirakpur

Other Regional/ Area Offices:

Other Locations Serviced :

Agra Ahmedabad Ahmednagar Almora Amritsar Aurangabad	Faridabad Goa Greater NOIDA Indore Jalgaon Jallandhar	Jodhpur Kochi Lucknow Ludhiana Meerut Moga	Mysore Nagpur NOIDA Panchkula Panipat Pantnagar Dathapkat
Cochin	Jamnagar	Mohali	Pathankot

com/khemtl-02 lexiconcreations.



KINETIC HYUNDAI ELEVATOR & MOVEMENT TECHNOLOGIES LTD.



Kinetic Hyundai Elevator & Movement Technologies Limited (KHEMTL) is a JV between Hyundai Elevator Co. Ltd, (HELCO) of Korea and the Kinetic Group of India.

Kinetic Hyundai markets, installs and maintains state of the art elevators, escalators and travellators from Hyundai in India. Kinetic Hyundai also executes the group's business of indigenous multilevel mechanized car parking systems, pioneered by the Kinetic Group of India.

Hyundai Elevator Co. Ltd. is the number one company with the highest market share among Elevator companies in Korea and has become a major supplier of elevators & escalators in South East Asia, India, Middle East, Africa, USA, Japan and Europe.

Our Company offers a full line of moving systems meticulous in detail, bringing together some of the most advanced technology and progressive designs in the industry.

Hyundai's product range includes, in addition to elevators, escalators and travellators, parking systems, airport logistics (cargo and baggage handling) systems, automated warehousing systems and platform screen doors.

in Korea is

02-07 Typical Car Designs
08-11 Finishing Options
12-17 Planning Guide
18-24 Glass & Observation Elevators
25-28 Freight & Automobile Elevators

The super high-speed elevator test tower at Icheon Headquarters in Korea is the world's tallest elevator test tower



Car Walls	MS, Powder Coated (shade selectable)
Car Door	MS, Powder Coated (shade selectable)
Car Operating Panel & Indicator	Type OPP-N240A (Indicator PI -D601 separately in transom)
Buttons	Type A40 - Braille marked, rugged, self illuminated LED number and ring
False Ceiling	Flat acrylic in MS Powder Coated Frame
Flooring	Colored acrylic (standard grey acrylic or recess for flooring by others)
Handrail	HR-01A (Tubular, SS)
Fan	Axial Flow, Concealed
Lighting	Fluorescent, indirect



SS, Hairline
SS, Hairline
Type OPP -N (indicator PI
Type A40 - B self illumina
Flat acrylic, Powder Coat
Colored acry for flooring I
HR-01A (Tub
Axial Flow, C
Fluorescent,

(SS, Hairline Finish)

Finish

Finish

N240A

PI-D601 separately in transom)

Braille marked, rugged, ated LED number and ring

, type C-245AS (frame options MS ated and SS Hairline/ Mirror Finish) rylic (standard grey acrylic or recess

y by others)

ibular, SS, at rear only)

Concealed

, indirect



Car Walls	Side panels of each wall: SS, Hairline Finish Middle panels of each wall: SS, Mirror Etched
Car Door	SS, Mirror Etched
Car Operating Panel & Indicator	Type OPP-N240A (Indicator PI -D601 separately in transom)
Buttons	Type A40 - Braille marked, rugged, self illuminated LED number and ring
False Ceiling	Curved acrylic, type C-726A (frame options MS Powder Coated and SS Hairline/ Mirror Finish
Flooring	Colored acrylic (standard grey acrylic or recess for flooring by others)
Handrail	HR-Bar (Flat Bar, SS - at rear only, not shown)
Fan	Axial Flow, Concealed
Lighting	Fluorescent, indirect, and halogen combination



Car Walls	Side panels Middle pane
Car Door	SS, Mirror Et
Car Operating Panel & Indicator	Type OPP-D2 (indicator in
Buttons	Type A40 - B self illumina
False Ceiling	Flat acrylic, (frame optic
Flooring	Colo red acr for flooring
Handrail	HR-01B (Tub
Fan	Axial Flow, O
Lighting	Fluorescent,

of each wall: SS, Mirror Finish els of each wall: SS, Mirror Etched

Etched

240B ntegral in car operating panel)

Braille marked, rugged, nated LED number and ring

, type CD289C ions SS Hairline/ Mirror Finish)

rylic (standard grey acrylic or recess g by others)

bular, SS, with PVC sleeve)

Concealed

, indirect

Car Design SP - 07 (SS, Mirror Etched and Hairline Finish)

Landing Door Jamb Options



Car Walls	Side panels of each wall: SS, Hairline Finish Middle panels of each wall: SS, Mirror Etched
Car Door	SS, Mirror Etched
Car Operating Panel & Indicator	Swing Type (Full Height – Return panel as COP) (indicator PI-D601 separately in transom)
Buttons	Type A40 - Braille marked, rugged, self illuminated LED number and ring
False Ceiling	Curved aluminum, type CD519D
Flooring	Colored acrylic (standard grey acrylic or recess for flooring by others)
Handrail	HR-01A (Tubular, SS)
Fan	Axial Flow, Concealed
Lighting	Fluorescent, indirect





Note:

Narrow Jamb (Jamb Type: JP-050)

For door in illustration:

- Door finish special SS hairline etched
- · Jamb finish SS hairline
- Indicator in architrave (type PI-D611) -Option integrated indicator and button panel
- Hall button panel type HPB-240 (box type)
- Button Type A40 Braille marked, rugged, self illuminated LED number and ring

Note:

Narrow jamb provided at other landings by default, unless otherwise specified.



• Jamb finish SS hairline

• Indicator integral with buttons

Note:

Note: Car is configurable and price will depend on the final configuration. Selectable options subject to availability at the time of finalization.

Note: Price will change with change in jamb type from default. Special hairline etching finish doors shown above are illustrative and available as optional extras.

Wide Jamb with Transom (Jamb Type: JP-200)

For door in illustration:

• Door finish special SS hairline etched

• Jamb finish SS hairline

• Indicator in transom (type PI-D601)

• Hall button panel type HPB-240 (box type)

• Button Type A40 – Braille marked, rugged, self illuminated LED number and ring

Wide jamb with transom provided at main landing by default, unless otherwise specified.



Wide Jamb (without transom) (Jamb Type: JP-100)

For door in illustration:

• Door finish special SS hairline etched

• Hall indicator and button panel type HIP-D442B (box-less)

• Button Type A40 – Braille marked, rugged, self illuminated LED number and ring

Wide jamb provided at top landing by default in MRL elevators (top landing front wall 280/ 340mm thick, to accommodate control panel).

False Ceiling Options



Type: C245AS (Acrylic in Steel Frame)

Steel frame options:	
• MS, powder coated finish	 SS, hairline finish

• SS, mirror finish

Note:

Available for capacity up to 15-persons (similar flat ceiling available for 13 to 24-persons capacity)



Type: C726A (Acrylic in Steel Frame)

Steel frame options:

• MS, powder coated finish • SS, hairline finish

• SS, mirror finish

Note:

Available for capacity up to 15-persons only and not for deep car (availability for customized cars subject to fitment)



Type: C807A (Acrylic in Steel Frame)

Steel frame options:

- SS, hairline finish
- SS, mirror finish

Note:

08

Available for capacity up to 24-persons (availability for customized cars subject to fitment)



Type: C421A (Acrylic in Steel Frame)	
Steel frame options:	
MS, powder coated finishSS, mirror finish	• SS, hairline finish
Note: Available for capacity up to 15-persons	



Type: C806A (Acrylic in Steel Frame)

Steel frame options:

- SS, hairline finish
- SS, mirror finish

Note:

Available for capacity up to 24-persons (availability for customized cars subject to fitment)



Type: CD519D (Aluminum)

Note: Available for capacity up to 24-persons (availability for customized cars subject to fitment)

Indicator and Button Panels and Hall Lanterns

Car Operating Panels



Hall Indicator and Button Panels



HIP-D442B HIP-D240A (Hall Indicator & (Hall Indicator & Button Panel, Button Panel, Box-less Type Box Type A40 Buttons.) A40 Buttons.)



HPB-442B (Hall Button Panel, Box-less Type

Notes:

• Above hall indicator and hall button panels available with A41 and A21 buttons also.

Buttons



NOTES: 1. Lift price will vary with the type of ceiling

2. Default ceiling is of flat acrylic in MS powder coated frame (not shown above)

3. In case of dedicated freight elevators or (service elevators of capacity above 1600 KG), only flat MS powder coated car top is offered as ceiling.

Notes:

All buttons are Braille marked and Buttons A-40 & A-41 have number and ring glowing on pressing.





OPP-N240W (Handicapped Type; A40 Buttons; Indicator Separate)



Indicator Separate)

Indicator PI-D601 (Indicator in Car Transom with Car Operating Panel Types OPP-N240A & OPP-N240W)



HIP-D240WA HIP-D442WB (Box Type) (Boxless)



HPB-240 (Hall Button Panel, Box Type A40 Buttons.)



Indicator PI-D610 (Indicator in Landing Transom with Hall Button Panel Types HPB-442B & HPB-240)

Hall Lanterns



HLS - 760

HLS - 640

Notes: Hall lantern is optional extra. Can be put at for all/ select floors.

HLS - 770

Handrails and PVC Flooring

Handrail Options



PVC Flooring Options



Type FP-08 (Grey)



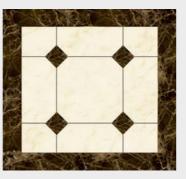
Type FH-03 (Colored)

10



(SS, Hairline Finish with PVC Sleeve)

Type FH-01 (Colored)

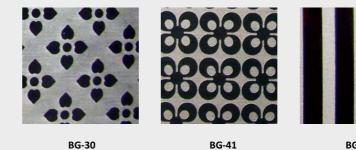


Type FH-03 (Colored)

SS Etching Patterns and MS Powder Coating Shades

Some SS Etching Patterns Offered





BG-41

NOTES:

• Some photos above are of etching on SS hairline finish base and some of etching on SS mirror finish base. Any pattern can be etched on hairline or mirror finish base SS.

- Above samples can be physically shown at the time of final selection.
- The above are some of the etching patterns already available. Any other etching pattern required can be developed at extra price.

MS Powder Coating Shades Offered



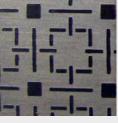
NOTES:

- P-003, P-005, P-017, P-002, P-006 & P-007 are standard or default shades. Any of these can be selected.
- P-020 Gold & P-021 Silver are metallic colors and can be provided at extra price.

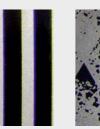
NOTE: Default PVC flooring is FP-08 (grey). Price will increase on selecting any other.



BG-02



BG-28



BG-12

KJ-62



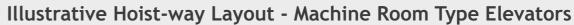
SE1184

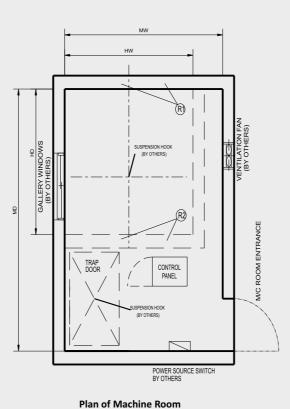


• Actual color shades may look different from the illustrations above. Physical samples can be shown at the time of final selection.

Machine Room Type Elevators - Geared Drive

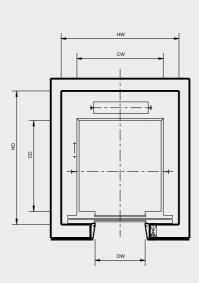
			Standard Si	ze (mm)	Hoist-way	Mashina Daam
Speed	Capao	city	Car Internal	Door Opening	Required	Machine Room Size (mm) *
M/Sec	Persons	KG	CW x CD	DW	HW x HD	MW x MD
1.0	6	408	1400 x 850	800	1800 x 1480	3000 x 3480
1.5	8	544	1400 x 1030	800	1800 x 1660	3000 x 3660
	9	612	1400 x 1100	800	1800 x 1730	3000 x 3730
	10	680	1400 x 1250	800	1800 x 1880	3000 x 3880
	11	748	1400 x 1350	800	1800 x 2000	3000 x 4000
	13	884	1600 x 1350	900	2050 x 2000	3250 x 4000
	15	1020	1600 x 1500	900	2050 x 2150	3250 x 4150
	17	1156	1800 x 1500	1000	2350 x 2280	3550 x 4280
	20	1360	1800 x 1700	1000	2350 x 2480	3550 x 4480
	24	1632	2000 x 1750	1100	2550 x 2530	3750 x 4530





Maximum travel 60M at 1.0 MPS and 70M at 1.5 MPS.

(*) Machine room size shown above is for speed 1.0 MPS. It has to be increased by 500mm in width as well as depth for speed 1.5 MPS. Machine room height recommended is 2500mm.

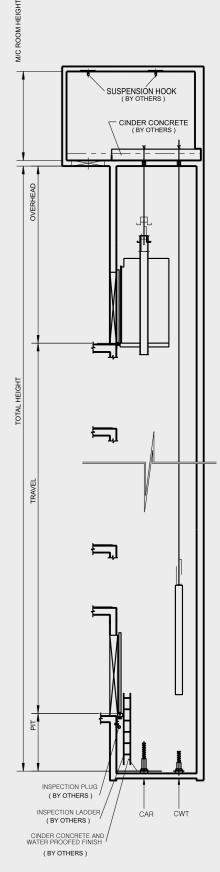


Plan of Hoistway

Overhead & Pit Depth Required

Speed (M/Sec)	Overhead (mm)	Pit Depth (mm)
1.0	4450	1500
1.5	5000	1600

Above mentioned overhead is applicable to Hyundai's standard car height of 2500mm and door height of 2100mm



Section of Hoistway

Planning Guide

Machine Room Type Elevators - Gearless PMSM Drive

	Capacity		Standard Size (mm)		Hoist-way	
Speed			Car Internal	Door Opening	Required	Machine Room Size (mm) *
M/Sec	Persons	KG	CW x CD	DW	HW x HD	MW x MD
1.0	8	544	1400 x 1030	800	1800 x 1660	3000 x 3660
1.5	9	612	1400 x 1100	800	1800 x 1730	3000 x 3730
	10	680	1400 x 1250	800	1800 x 1880	3000 x 3880
1.0 1.5	11	748	1400 x 1350	800	1800 x 2000	3000 x 4000
1.75	13	884	1600 x 1350	900	2050 x 2000	3250 x 4000
	15	1020	1600 x 1500	900	2050 x 2150	3250 x 4150
	17	1156	1800 x 1500	1000	2350 x 2280	3550 x 4280
	20	1360	1800 x 1700	1000	2350 x 2480	3550 x 4480
	24	1632	2000 x 1750	1100	2550 x 2530	3750 x 4530
	13	884	1600 x 1350	900	2300 x 2200	3800 x 4700
2.0 2.5	15	1020	1600 x 1500	900	2300 x 2350	3800 x 4850
2.0	17	1156	1800 x 1500	1000	2500 x 2350	4000 x 4850
	20	1360	1800 x 1700	1000	2500 x 2550	4000 x 5050
	24	1632	2000 x 1750	1100	2700 x 2600	4200 x 5100

Maximum travel 60M at 1.0 MPS, 70M at 1.5 MPS, 95M at 1.75 MPS and 120M at 2.0 & 2.5 MPS.

(*) Machine room width and depth shown above for speeds' group 1.0, 1.5 & 1.75 MPS are for speeds 1.0 & 1.5 respectively. Machine room width and depth has to be increased by 500mm respectively for speeds 1.5 & 1.75 MPS (over that shown above for speed 1.0 MPS). Machine room height recommended is 2500mm.

Overhead & Pit Depth Required (mm)

Speed (M/Sec)	Overhead (mm)	Pit Depth (mm)
1.0	4450	1500
1.5	5000	1600
1.75	5000	2150
2.0	5400	2200
2.5	5600	2500

Machine Room Less (MRL) Elevators - Gearless PMSM Drive

Capacity			Standard S	ize (mm)	Hoist-way Required	Top Floor Front Wall Thickness
		Speed Options	Car Internal	Door Opening		
Persons	KG	M/Sec	CW x CD	DW	HW x HD	(mm) *
4	272	1.0	900 x 1000	800 (SO)	1500 x 1500	280
5	340	1.0	1000 x 1100	800 (SO)	1600 x 1500	280
6	408	1.0	1100 x 1150	800 (SO)	1700 x 1550	280
8	544	1.0	1200 x 1250	800 (CO)	1900 x 1650	280
9	612	1.0	1100 x 1400	800 (CO)	1950 x 1800	280
		1.0			2000 x 1975	280
11	748	1.5	1200 x 1575	800 (CO)		280
		1.75				280
	1020	1.0	1500 x 1600 900 (CO)	900 (CO)	2300 x 2000	280
15		1.5				280
		1.75			280	
		1.0		1000 (CO)	2500 x 2050	280
17	1156	1.5	1650 x 1650			280
		1.75				340
		1.0			2600 x 2300	280
20	1360	1.5	1700 x 1800	1000 (CO)		340
		1.75				340
		1.0			2700 x 2500	340
24	1632	1.5	1800 x 2000	1100 (CO)		340
		1.75				340

Maximum travel 60M at 1.0 MPS, 70M at 1.5 MPS and 95M at 1.75 MPS.

(*) Front wall thickness shown is the minimum required at top floor since control panel is located in top floor front wall, beside the landing door.

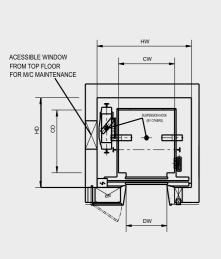
Overhead & Pit Depth Required (mm)

Speed (M/Sec)	Overhead (mm)	Pi
1.0	4450	
1.5	5000	
1.75	5000	
	(M/Sec) 1.0 1.5	(M/Sec) (mm) 1.0 4450 1.5 5000

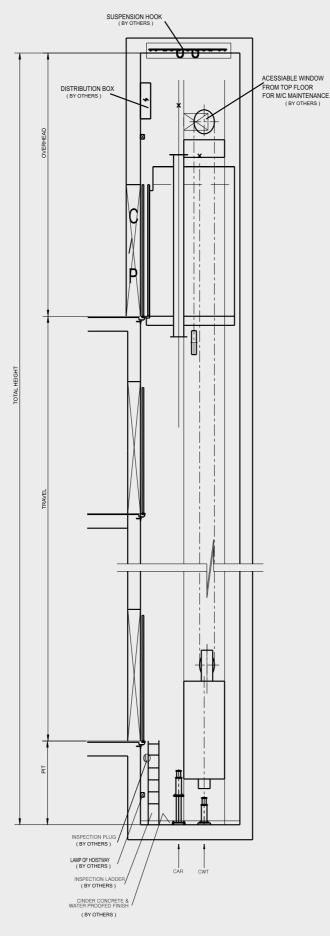
14

it Depth (mm) 1500 1600 2150

Illustrative Hoist-way Layout - MRL Elevators



Plan of Hoistway



Planning Guide

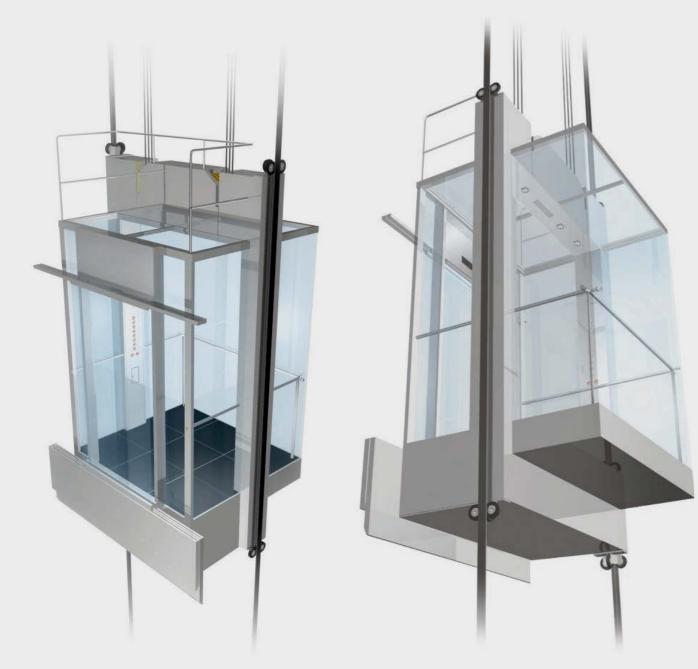
Notes on Planning Guide

- 1. Hyundai's gearless drive is Permanent Magnet Synchronous Motor (PMSM) type and is offered with all steel rope suspension only, in case of machine room type as well as MRL elevators.
- 2. Car and machine room sizes and pit depth and overhead requirements shown are based on IS norms as applied in India (linked to speed and car height) and may differ from those appearing in some Hyundai catalogues.
- 3. Car and required hoist-way sizes shown for machine room type elevators are with counter-weight at rear. Motor as well as counterweight come on a side in the hoist-way in case of MRL elevators.
- 4. Car size can be customized as long as car internal area to capacity ratio and the differences between car internal width and hoist-way width and car internal depth and hoist-way depth respectively are maintained. Car internal width variation is offered in multiples of 100mm.
- 5. Door opening widths shown are all centre opening in case of machine room type elevators and side opening or telescopic (SO) or centre opening (CO) as shown in the planning table in case of MRL elevators.
- 6. Standard car internal sizes shown yield area slightly more than permitted in IS in case of some smaller capacity MRL elevators. Effective area will be reduced by handrail.
- 7. Standard minimum MRL lift capacity is 11 persons at speeds 1.5 and 1.75 MPS. Requirement of a lower capacity elevator at either of these speeds will entail using the drive and related parts meant for 11 person capacity. Hoist-way size required will be determined by the differences between car internal width and hoist-way width for11 person capacity.
- 8. Capacities in between Hyundai's standard capacities (viz. 12 persons, 16 persons or 22 persons) can be offered by using the drive and related parts meant for the next higher capacity. Car size will be altered so as to not violate the permitted car internal area to capacity norm. Hoist-way size required will be determined by the differences between car internal width and hoist-way width and car internal depth and hoist-way depth respectively for the next higher capacity. However, the hoist-way width required for the next higher capacity will be required to provide door opening width shown for the next higher capacity.
- 9. Please refer to Kinetic Hyundai for sizes for machine room type elevators with counterweight on a side (such as in service elevators with deep car).
- 10. Pit depth 1600mm mandated in IS is acceptable but 1800mm is recommended at speed at 1.5 MPS.
- 11. Counterweight safety application is mandatory in case of floating pit (void left below the pits bottom in case of lift starting from floor other than the lowest). This makes pit depth requirement 400-450mm more. In addition, an additional concrete slab is required below and at least 300mm below the pit's bottom.
- 12. Above overhead requirements are with Hyundai's standard lift door height, 2100mm and will be higher for taller doors. Requirement of taller (2200mm or 2400mm high) doors, hence taller car, may entail use of drive and related parts meant for a higher capacity due the increased dead load of car (please see point no.14 below).
- 13. Above machine room sizes are for single elevators. Overall size of a combined machine room for a number of elevators in a group can be slightly lower than the sum of the individual machine room sizes. Please consult Kinetic Hyundai for the same.
- 14. Standard finishing allowance is 10% of the rated capacity. This is sufficient for marble/ granite flooring in 20mm recess. Higher finishing allowance requirement (or requirement of taller doors, hence taller car) may entail use of drive and related parts meant for a higher capacity. In such case, hoist-way clearances (differences between car internal width and hoist-way width and car internal depth and hoist-way depth respectively) will also be required as applicable to the higher capacity. Taller doors or higher finishing allowance are not offered for MRL elevators with rated capacity 24 persons. Requirement of 24 person rated capacity machine room type elevators with taller doors or higher finishing allowance may be referred to Kinetic Hyundai.

Nude Elevators

Observation Elevators

(All Sides Glass in SS Frame)



- All sides of glass in SS frame
- Doors too of glass in SS frame (optional)
- SS frame of mirror finish or hairline finish
- ☑ Offered with Machine Room (geared as well as gearless drive) as well MRL drive
- Maximum capacity offered 20-persons (1360 KG). *Higher capacity (upto 24-persons) available as special product*.



Planning Guide for Capsule SQGQ015

Speed	Capacity Persons KG		Standard Size (mm)		Hoist-way Required #		Machine Room	
Speed			Mean Car Internal	Ovorall	RCC Part for Counterweight	Size (mm) *		
M/Sec			CW x CD	DW	DW HW x HD	SW x SD	MW x MD	
Machir	Machine Room Type (Geared /Gearless PMSM Drive)							
1.0	11	748	1100 x 1500	800 (CO)	2450 x 2300	550 x 1100	3650 x 4300	
1.5	15	1020	1200 x 1800	900 (CO)	2650 x 2450	550 x 1250	3850 x 4450	
1.75	20	1360	1400 x 2000	1000 (CO)	2850 x 2700	550 x 1350	4050 x 4700	

Maximum travel 60M at 1.0 MPS, 70M at 1.5 MPS and 95M at 1.75 MPS.

Overhead & Pit Depth Required (mm)

Speed (M/Sec)	Overhead (mm)	Pit Depth (mm)
1.0	4900	2000
1.5	5050	2200
1.75	5200	2200

Machine Room Type Only

Capsule Type: SHGQ015

Glass Window	3 Piece Safety Glass
Outer Domes	SS, Hairline Finish
Car Walls	SS, Hairline Finish (Options SS Mirror Finish / Etched and Mild Steel Powder Coated)
Flooring	Grey PVC Tiles / 20mm Recess for Flooring by Others
Ceiling	Acrylic in SS hairline Finish Frame with Decorative Punching Pattern Lighting

Notes: Capacity

Speed -

Minimum 11 persons (748 KG), Maximum 20 persons (1360 KG) Maximum 1.75 MPS

Notes:

- 1. (#) Overall hoist-way size including glass cladding at rear.
- 2. (*) Please see footnote on page no. 14 on increase in machine room depth requirement with speed.
- 3. Please see Notes on Planning Guide on page no.17.

Machine Room Type As Well As MRL



Capsule Type: SHGQ004						
Glass Window	3 Piece Safety Glass					
Outer Domes	MS Powder Coated with Punching Pattern Lighting (Option SS Hairline Finish)					
Car Walls	SS, Hairline Finish (Options SS Mirror Finish / Etched and Mild Steel Powder Coated)					
Flooring	Grey PVC Tiles / 20mm Recess for Flooring by Others					
Ceiling	Milky White Acrylic in MS Powder Coated Frame with Decorative Lighting					





Capsule Type: SC-846A					
Glass Window	3 Piece Safety Glass				
Outer Domes	Milky White Acrylic				
Car Walls	SS, Hairline Finish (Options SS Mirror Finish / Etched and Mild Steel Powder Coated)				
Flooring	Grey PVC Tiles / 20mm Recess for Flooring by Others				
Ceiling	Acrylic in MS Powder Coated Frame with Decorative Lens Lighting				



Notes:

20

Capacity (Machine Room Type)
Capacity (MRL) -Speed -

Minimum 11 persons (748 KG), Maximum 20 persons (1360 KG) Minimum 11 persons (748 KG), Maximum 15 persons (1020 KG) Maximum 1.75 MPS

Notes: Capacity (Machine Room Type) Capacity (MRL) -Speed -

Minimum 11 persons (748 KG), Maximum 20 persons (1360 KG) Minimum 11 persons (748 KG), Maximum 15 persons (1020 KG) Maximum 1.75 MPS

Machine Room Type As Well As MRL

Capsule Type: SHGQ007						
Glass Window	3 Piece Safety Glass					
Outer Domes	Milky White Acrylic					
Car Walls	SS, Hairline Finish (Options SS Mirror Finish / Etched and Mild Steel Powder Coated)					
Flooring	Grey PVC Tiles / 20mm Recess for Flooring by Others					
Ceiling	Milky White Acrylic in MS Powder Coated Frame with Decorative Lighting					

Capsule Type: SHGQ008						
Glass Window	3 Piece Safety Glass					
Outer Domes	SS, Hairline Finish, With Lights					
Car Walls	SS, Hairline Finish (Options SS Mirror Finish / Etched and Mild Steel Powder Coated)					
Flooring	Grey PVC Tiles / 20mm Recess for Flooring by Others					
Ceiling	Milky White Acrylic in MS Powder Coated Frame with Decorative Lighting					

Planning Guide for Capsules SHGQ004, SHGQ007, SHGQ008 & SC-846A

Speed	Conseitu		Standard Size (mm)		Hoist-way Required #		Machine Room
Speed Capaci		Capacity Mea Inte		Door Opening	Overall	RCC Part for Counterweight	Size (mm) *
M/Sec	Persons KG		CW x CD	DW	HW x HD	SW x SD	MW x MD
Machine Room Type (Geared /Gearless PMSM Drive)							
1.0	11	748	1400 x 1500	800 (CO)	2500 x 2100	550 x 1200	3700 x 4100
1.5	15	1020	1500 x 1750	900 (CO)	2600 x 2350	550 x 1350	3800 x 4350
1.75	20	1360	1700 x 1980	1000 (CO)	2850 x 2550	550 x 1500	4050 x 4550
MRL (Gearless	PMSM	Drive)		•	· · ·	
1.0	11	748	1300 x 1710	800 (CO)	2200 x 2250	440 x 1250	NA
1.5 1.75	15	1020	1350 x 1900	900 (CO)	2350 x 2450	390 x 1325	NA

Maximum travel 60M at 1.0 MPS, 70M at 1.5 MPS and 95M at 1.75 MPS.

Planning Guide for Capsules SHGQ-F02 & SHGQ002

Speed	Consoity		Standard Size (mm)		Hoist-way Required #		Machine Room
Speed Capacity		ity	Mean Car Internal	Door Opening	Overall	RCC Part for Counterweight	Size (mm) *
M/Sec	Persons KG		CW x CD	DW	HW x HD	SW x SD	MW x MD
Machi	ne Room	Туре (О	Geared /Gear	less PMSM	Drive)		
1.0	11	748	1400 x 1350	800 (CO)	2350 x 1950	550 x 1200	3550 x 3950
1.5	15	1020	1600 x 1500	900 (CO)	2600 x 2100	550 x 1350	3800 x 4100
1.75	20	1360	1800 x 1700	1000 (CO)	2900 x 2300	550 x 1500	4100 x 4300
MRL (Gearless	PMSM	Drive)				
1.0	9	630	1100 x 1400	800 (CO)	1950 x 1950	Full H'way Depth	NA
1.5	11	750	1300 x 1470	800 (CO)	2050 x 2000	Full H'way Depth	NA
1.75	15	1020	1400 x 1550	900 (CO)	2250 x 2100	Full H'way Depth	NA

Maximum travel 60M at 1.0 MPS, 70M at 1.5 MPS and 95M at 1.75 MPS.

Overhead & Pit Depth Required (mm)

Speed (M/Sec)	Overhead (mm)	Pit Depth (mm)		
1.0	4900	2000		
1.5	5050	2200		
1.75	5200	2200		

Notes:

- 1. (#) Overall hoist-way size including glass cladding at rear.
- 2. (*) Please see footnote on page no.14 on increase in machine room
- depth requirement with speed. 3. Please see table on page no.15 for top floor front wall thickness
- requirement for MRL elevators.
- 4. Please see Notes on Planning Guide on page no.17.





Glass W

Outer

Car Wa

Floorin

Ceiling

		-	
-	-		
		1	
	-		

Glass \
Outor

Car V

Floor

Ceilin



Notes: Capacity (Machine Room Type) Capacity (MRL) -Speed -

Maximum 1.75 MPS

Machine Room Type As Well As MRL

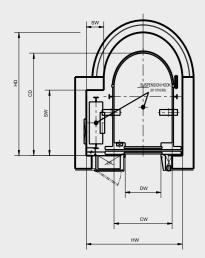
Capsule Type: SHGQ-F02

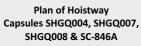
/indow	Rear Wall of Safety Glass (Corner to Corner)
lear Panel	MS Powder Coated
lls	SS, Hairline Finish (Options SS Mirror Finish / Etched and Mild Steel Powder Coated)
g	Grey PVC Tiles / 20mm Recess for Flooring by Others
	Acrylic in MS Powder Coated Frame with Decorative Lighting

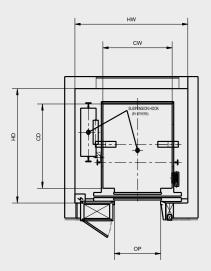
Capsule Type: SHGQ002

Window	Rear Wall of Safety Glass (End to End)
r Rear Panel	MS Powder Coated
Valls	SS, Hairline Finish (Options SS Mirror Finish / Etched and Mild Steel Powder Coated)
ing	Grey PVC Tiles / 20mm Recess for Flooring by Others
ng	Milky White Acrylic in MS Powder Coated Frame with Decorative Lighting

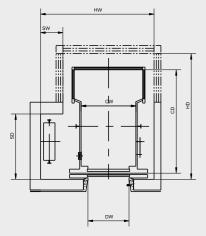
Illustrative Hoist-way Layout - Observation Elevators



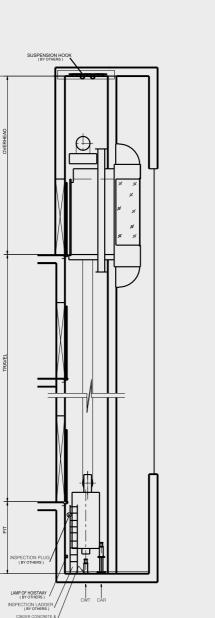




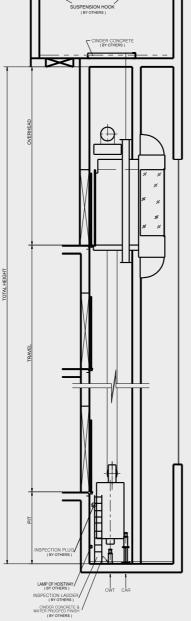
Plan of Hoistway Capsules SHGQ-F02, SHGQ002



Plan of Hoistway Capsule SHGQ015



Section of Hoistway - MRL



Section of Hoistway - Machine Room Type





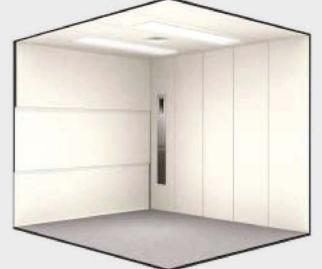
Specifications

Ceiling	Painted steel sheet
Car Wall	Painted steel sheet
Flooring	Checkered steel sheet
Car Doors	Painted steel sheet
Lighting	Semi-indirect lighting

Automobile Elevators



Freight & Automobile Elevators



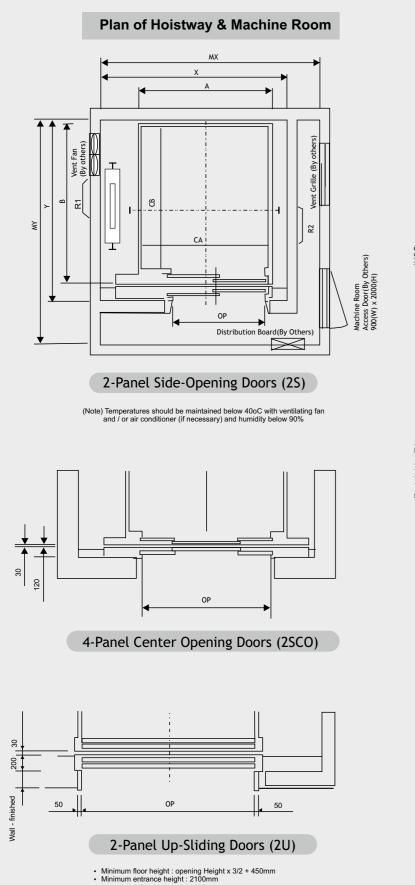
Specifications

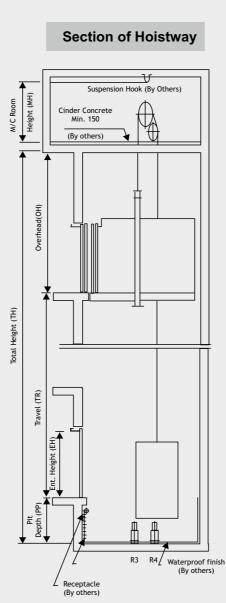
Painted steel sheet
Painted steel sheet
Checkered steel sheet
-
Semi-indirect lighting

Freight Elevators - Planning Guide

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

Freight Elevators - Planning Guide





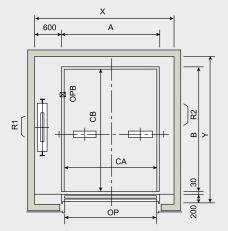
	Entrance			CAR		Hoistway			
Model	Speed (m/min)	Door Opening	Width x Height	Entrance Type	Internal CA x C	External A x B	ХхҮ	Overhead (OH)	M/C Room (MX x MY)
F1000-2S	30 45 60	25	1200 X 2100	Standard Double Entrance	1400 x 1700	1480 x 1900 1480 x 2020	2300 x 2200 2300 x 2320	4800	3200 x 3500
F1500-2S	30 45 60	25	1500 X 2100	Standard Double Entrance	1800 x 1800	1860 x 2000 1880 x 2120	2700 x 2300 2700 x 2430	4800	3600 x 4000
F2000-2SCO	30 45 60	2SCO	1600 X 2100	Standard Double Entrance	1900 x 2100	1980 x 2310 1980 x 2440	2950 x 2600 2950 x 2740	4800	3600 x 4000
F2000-2U	30 45 60	2U	1900 X 2100	Standard Double Entrance		1980 x 2298 1980 x 2416	2950 x 2700 2950 x 2876	4600	3800 x 4200
F2500-2SCO	30 45 (60)	25	1700 X 2100	Standard Double Entrance	2100 x 2300	2180 x 2510 2180 x 2640	3100 x 2800 3100 x 2940	4800	4000 x 4400
F2500-2U	30 45 (60)	2U	2100 X 2100	Standard Double Entrance		2180 x 2498 2180 x 2616	3100 x 2900 3100 x 3076	4600	4000 x 4400
F3000-2SCO	30 45	2SCO	1800 X 2300	Standard Double Entrance	2300 x 2500	2380 x 2710 2380 x 2840	3300 x 3000 3300 x 3140	4800	4200 x 4800
F3000-2U	30 45	2U	2300 X 2100	Standard Double Entrance		2380 x 2698 2380 x 2816	3300 x 3100 3300 x 3276	5000	4300 x 5200
F4000-2SCO	25 30	2SCO	2000 X 2100	Standard Double Entrance	2500 x 2900	2580 x 3110 2580 x 3240	3700 x 3400 3700 x 3540	5300	4500 x 5900
F4000-2U	25 30	2U	2500 X 2100	Standard Double Entrance		2580 x 3098 2580 x 3216	3700 x 3500 3700 x 3676	5500	4700 x 6400

Note : 1. The loading capacity should be over 250 kg/m2 minimally 2. The actual reaction may slightly differ from above dimensions in line with machine beam position.

Building Requirements

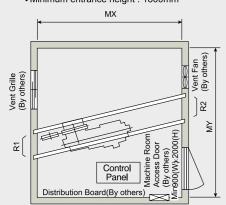
PIT (PP)	M/C Room Height (MH)
1350	2400
1500	2600
	(PP) 1350

Plan of Hoistway & Machine Room



2-PANEL UP-SLIDING DOORS (2U)

 Minimum floor height : Opening Height 700mm Minimum entrance height : 1800mm



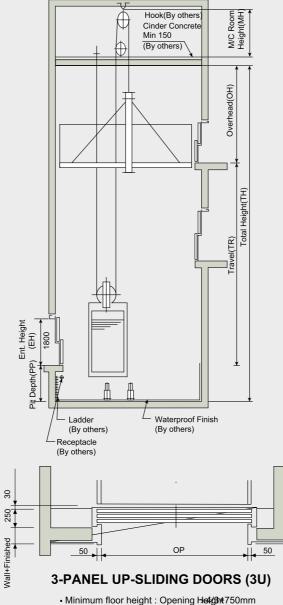
Notes:1.Temperatures should be maintained belowith40 ventilating fan and/or air conditioner(if necessary) and humidity below 90%

2. The specification of car doors are optional

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

Note: The above are minimum size

Standard Dimensions & Reactions



Minimum entrance height : 1800mm

	Speed	Clear	Car		Heistway	M/CRoom	M/C Room		
Туре	Model	· · ·	Opening	Internal	External	Hoistway	W/CROOM	Reaction(kg)	
(m	(m/min)	OP	CA×CB	A×B	X×Y	MK ×MY	R1	R2	
	A2000-2U	30, 45	2350	2350×5300	2450×5350	3300 × 5800	3300 ×5800	17500	12000
Standard	A2500-2U	30, 45	2750	2750×6300	2850×6350	3700 × 6800	3850×6800	22500	12500
Туре	A2000-3U	30, 45	2350	2350×5300	2450×5350	3300 × 5800	3300×5800	17500	12000
	A2500-3U	30, 45	2750	2750×6300	2850×6350	3700 × 6800	3850×6800	22500	1250
	A2000-2UD	30, 45	2350	2350×5300	2450×5300	3300 × 5800	3300×5800	17500	1200
Double -	A2500-2UD	30, 45	2750	2750×6300	2850×6300	3700 × 6800	3850×6800	22500	1250
Entrance -	A2000-3UD	30, 45	2350	2350×5300	2450×5300	3300 × 5800	3300×5800	17500	1200
Туре –	A2500-3UD	30, 45	2750	2750×6300	2850×6300	3700 × 6800	3850×6800	22500	1250

Notes: 1 The car external size can be varied in line with entrance type When non-standard capacities and dimensions are required, consult Hyundai

Standard Features for Passenger & Freight Elevators

- Selective Collective Control
 - VVVF Inverter Drive With Close Loop Encoder Feedback
- VVVF Inverter Door Drive With Close Loop Encoder Feedback
- Inspection Operation
- Automatic Overload Bypass
- Fireman's Emergency Return and Fireman's Emergency Operation
- Car Arrival Chime
- Dot Matrix Display Indication
- Reverse Car Call Cancellation
- False Call Canceling **Button Operation**
- False Call Canceling Automatic
- Owner Skip Operation
- Ventilation Fan
- Car Ventilation Auto Shut Off
- Car Light Auto Shut Off
- Overload Holding St op
- Attendant Service
- Repeated Door Closing and Openi ng
- Lift Operation Counter
- Fault Indication
- Emergency Car Lighting
- Multi-beam Door Protection
- Interphone with Battery Back Up

Optional Features

- Safety Edge Door Protection
- Voice Synthesizer
- Duplex Control
- Group Control
- Auxiliary Car Operating Panel
- Swing Type Car Operating Panel
- Emergency Landing Device ELD (Automatic Rescue Device ARD)
- Dual Floor Fireman's **Emergency Return**
- Supervisory Panel
- Hall Lantern
- BMS contact

Selective automatic operation by collective all call signals Accurately adjusts motor speed, which makes elevator start, run and stop smoothly.

smoothly.

When inspection switch actuates car inching operation at speed 0.3m/s. Crowded car with load more than a preset value bypasses hall calls.

Electronic chime mounted on car top sounds to indicate the car's arrival. Car position displays inside car and on landings with scrolling arrow to indicate the direction in which the car is running. When the car responds to the final car call in one direction, the system automatically clears the remaining calls in the other direction from its memory. If a mistake is made when pressing a floor button, simply pressing the same button again cancels the call.

If the number of car calls registered is not in proportion with the lift's capacity, all calls are canceled in order to avoid unnecessary stops. Temporarily locking (by-passing) a floor as per customer's requirement. Lift is fitted with sound free axial flow fan fitted above and hidden by false ceiling. If there is no call registered within a predetermined period of time, i.e. the elevator is idle, car fan is automatically shut off to conserve energy. If there is no call registered within a predetermined period of time, i.e. the elevator is idle, car light is automatically shut off to conserve energy. Overloaded car cannot leave the floor and a buzzer is sounded. Elevators can be changed over to attendant service from normal full automatic operation by an override switch in the car operating panel.

If an obstacle prevents the doors from closing, the doors repeatedly open and close until the obstacle is cleared.

The controller records the number of elevator running operations performed. When elevator stops due to a fault, the fault is recorded and displayed in the controller.

When power fails, battery operated emergency light in car turns ON immediately. Multiple infrared -light beams cover the full width and height of the door as the door opens or closes, to detect passengers or objects. A three way interphone system comprising a press and speak unit in car operating panel for the passengers and handset each at lift control panel and main lobby.

Conventional sensitive mechanical door edge to detect pressure from passenger and objects, in lieu of or together with multibeam protection. Floor and elevator status announcement. Optimizes the operation of a pair of elevators by dispatching the nearest car to attend a call.

Optimizes the operation of a group of 3 to 8 cars by minimizing waiting time, zonal distribution and energy conservation. Extra car operating panel in large-capacity elevator for passenger convenience. Can

be regular vertical layout type or handicap type. Full height car operating panel- an entire return panel forms the car operating panel plate.

In case of normal power's failure, a rechargeable battery moves the car to the nearest floor.

In case of fire signal from the building's fire detection system, return to a floor other than the main floor if the fire signal is from the main floor.

Common display panel (for building control room or lobby or security room) with a car position and status display for each lift.

status.

(Unit : mm)

Accurately adjusts door motor speed, which makes door start, open & close and stop

When the key switch at main floor is activated orsignal is received from fire detection system, all calls are canceled and car returns immediately to main floor, then door opens. Thereafter car responds only to car call, to facilitate rescue.

Predictive attractive flashing up and down indicator lights above the landing doors of lifts in a group to indicate to waiting passengers the lift expected to arrive at the floor. Potential free contacts for BMS at lift control panel, with signals on lift position and