



General Passenger & Service and Observation Elevators

Machine-room Type VVVF Gearless PMSM Drive

Machine-room Type VVVF Geared Drive

Machine-room-less (MRL) VVVF Gearless PMSM Drive

KINETIC HYUNDAI ELEVATOR & MOVEMENT TECHNOLOGIES LTD.
(A JV of Hyundai Elevator Co., Ltd., with Kinetic Group)



- ☑ All Hyundai elevators come with digital close loop VVVF drive.
- ☑ All Hyundai elevators' doors too come with digital close loop VVVF drive.
- ☑ Hyundai's premium gearless PMSM drive (for machine room type as well as machine room less elevators) is highly energy efficient and noise and vibration free.

Typical Car Designs ➔
Finishing Options ➔
Planning Guide ➔



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



Car Walls	SS, Hairline Finish
Car Door	SS, Hairline Finish
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, type C-245AS (frame options MS Powder Coated and SS Hairline/ Mirror Finish)
Flooring	Colored acrylic (standard grey acrylic or recess for flooring by others)
Handrail	HR-01A (Tubular, SS, at rear only)
Fan	Axial Flow, Co ncealed
Lighting	Fluorescent, 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 of each wall: SS, Mirror Finish Middle panels of each wall: SS, Mirror Etched
Car Door	SS, Mirror Etched
Car Operating Panel & Indicator	Type OPP-D240B (indicator integral in car operating panel)
Buttons	Type A40 - Braille marked, rugged, self illuminated LED number and ring
False Ceiling	Flat acrylic, type CD289C (frame options SS Hairline/ Mirror Finish)
Flooring	Colored acrylic (standard grey acrylic or recess for flooring by others)
Handrail	HR-01B (Tubular, SS, with PVC sleeve)
Fan	Axial Flow, Concealed
Lighting	Fluorescent, 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	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

Landing Door Jamb Options



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

Note:

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

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.



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

For door in illustration:

- Door finish special SS hairline etched
- Jamb finish SS hairline
- Indicator integral with buttons
- Hall indicator and button panel type HIP-D442B (box-less)
- Button Type A40 – Braille marked, rugged, self illuminated LED number and ring

Note:

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



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.

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)



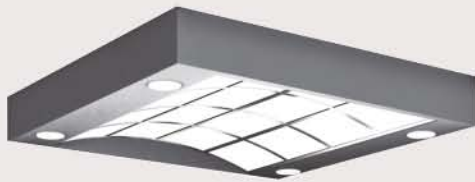
Type: C421A (Acrylic in Steel Frame)

Steel frame options:

- MS, powder coated finish
- SS, hairline finish
- SS, mirror finish

Note:

Available for capacity up to 15-persons



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: 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: C807A (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)

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.

Indicator and Button Panels and Hall Lanterns

Car Operating Panels



OPP-D241B
(A41 Buttons;
Integral Indicator)



OPP-D221B
(A21 Buttons;
Integral Indicator)



OPP-D240B
(A40 Buttons;
Integral Indicator)



OPP-N240A
(A40 Buttons;
Indicator Separate)



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



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

Hall Indicator and Button Panels



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



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



HPB-442B
(Hall Button Panel,
Box-less Type
A40 Buttons.)



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)

Notes:

- Above hall indicator panels are available of duplex type also.
- Above hall indicator and hall button panels available with A41 and A21 buttons also.

Buttons



A -40



A -41



A -21

Notes:
All buttons are Braille marked and have number and ring glowing on pressing.

Hall Lanterns



HLS - 760



HLS - 770



HLS - 640

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

Handrails and PVC Flooring

Handrail Options



Handrail Type HR-01A
(SS, Hairline Finish)

Handrail Type HR-BAR
(SS, Hairline Finish)



Handrail Type HR-01B
(SS, Hairline Finish with PVC Sleeve)

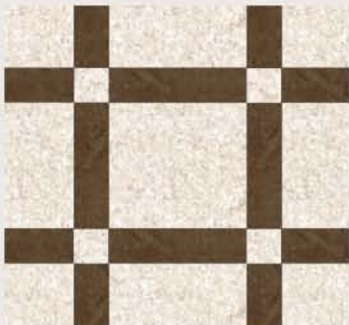
PVC Flooring Options



Type FP-08 (Grey)



Type FH-01 (Colored)



Type FH-03 (Colored)



Type FH-03 (Colored)

SS Etching Patterns and MS Powder Coating Shades

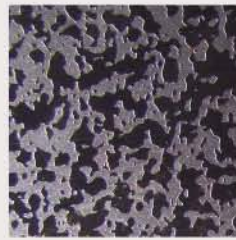
Some SS Etching Patterns Offered



BB-10



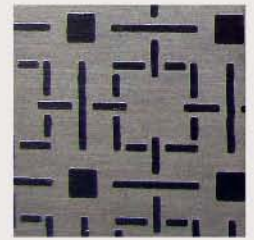
BB-13



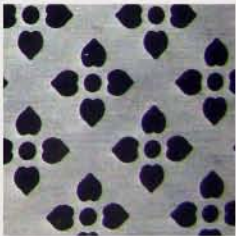
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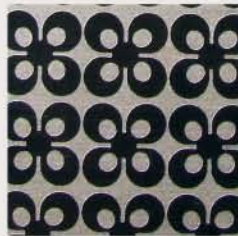
BG-02



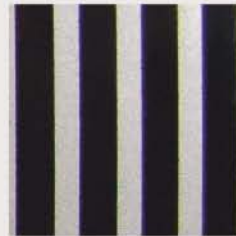
BG-28



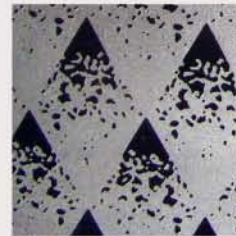
BG-30



BG-41



BG-12



KJ-62

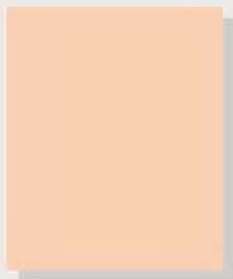


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NOTES:

- 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.

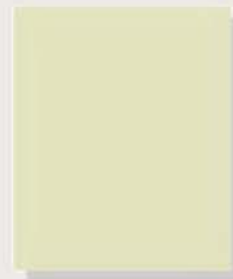
MS Powder Coating Shades Offered



P-003



P-005



P-017



P-002



P-006



P-007



P-020 (Gold)



P-021 (Silver)

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

Planning Guide

Machine Room Type Elevators - Geared Drive

Speed	Capacity		Standard Size (mm)		Hoist-way Required	Machine Room Size (mm) *
			Car Internal	Door Opening		
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 depth shown above is for speed 1.0 MPS. It has to be increased by 200mm for speed 1.5 MPS.
Machine room height recommended is 2500mm.

Overhead & Pit Depth Required

Speed (M/Sec)	Overhead (mm)	Pit Depth (mm)
1.0	4250	1500
1.5	4800	1600

Planning Guide

Machine Room Type Elevators - Gearless PMSM Drive

Speed	Capacity		Standard Size (mm)		Hoist-way Required	Machine Room Size (mm) *
			Car Internal	Door Opening		
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
1.0 1.5 1.75	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
2.0 2.5	24	1632	2000 x 1750	1100	2550 x 2530	3750 x 4530
	13	884	1600 x 1350	900	2300 x 2200	3800 x 4700
	15	1020	1600 x 1500	900	2300 x 2350	3800 x 4850
	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 has to be increased by 200mm for speeds 1.5 & 1.75 MPS (over that shown above for speed 1.0 MPS). Machine room depth has to be increased by 500mm for speed 1.75 MPS over that shown above for speeds 1.0 & 1.5 MPS. Machine room height recommended is 2500mm.

Overhead & Pit Depth Required (mm)

Speed (M/Sec)	Overhead (mm)	Pit Depth (mm)
1.0	4250	1500
1.5	4800	1600
1.75	5000	2150
2.0	5200	2200
2.5	5400	2500

Planning Guide

Machine Room Less (MRL) Elevators - Gearless PMSM Drive

Capacity		Speed Options M/Sec	Standard Size (mm)		Hoist-way Required HW x HD	Top Floor Front Wall Thickness (mm) *
Persons	KG		Car Internal CW x CD	Door Opening DW		
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
11	748	1.0	1200 x 1575	800 (CO)	2000 x 1975	280
		1.5				280
		1.75				280
15	1020	1.0	1500 x 1600	900 (CO)	2300 x 2000	280
		1.5				280
		1.75				280
17	1156	1.0	1650 x 1650	1000 (CO)	2500 x 2050	280
		1.5				280
		1.75				340
20	1360	1.0	1700 x 1800	1000 (CO)	2600 x 2300	280
		1.5				340
		1.75				340
24	1632	1.0	1800 x 2000	1100 (CO)	2700 x 2500	340
		1.5				340
		1.75				340

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

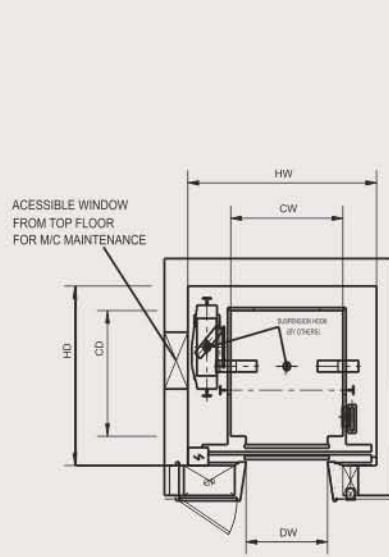
(*) Front wall thickness shown is the minimum required at top floor since control panel is located in top floor front wall, beside the landing door.

Overhead & Pit Depth Required (mm)

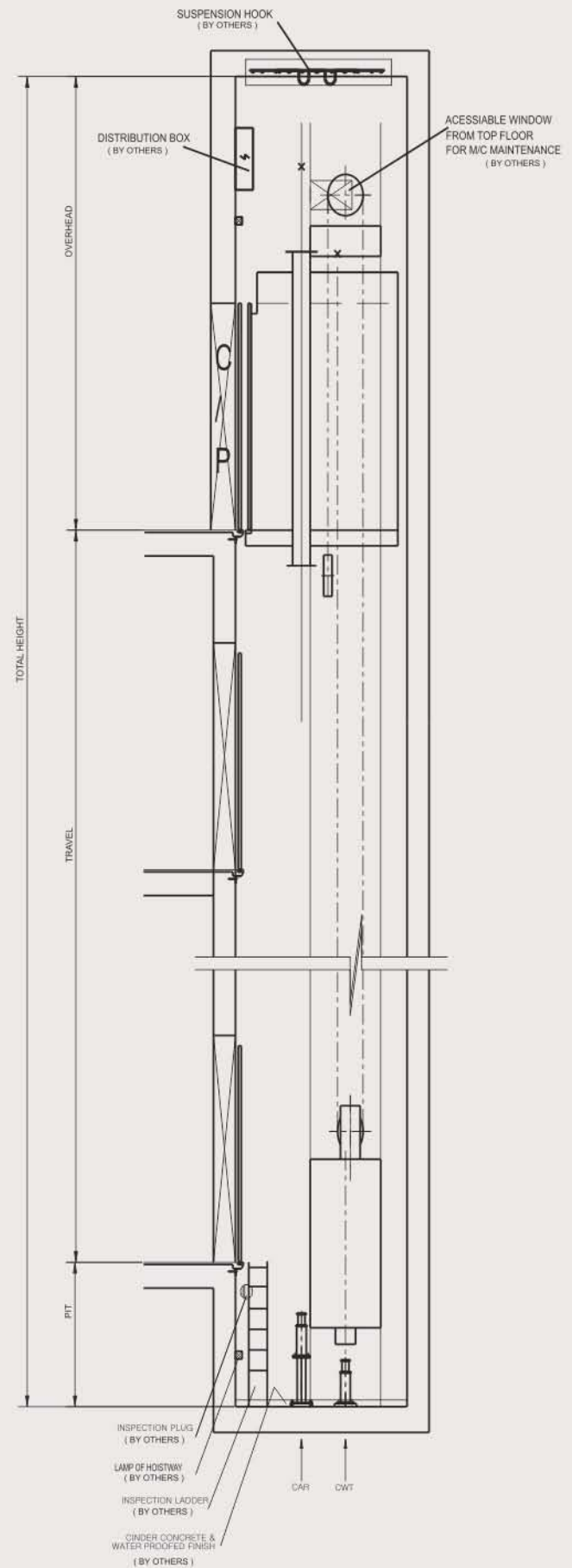
Speed (M/Sec)	Overhead (mm)	Pit Depth (mm)
1.0	4250	1500
1.5	4800	1600
1.75	5000	2150

Planning Guide

Illustrative Hoist-way Layout - MRL Elevators



Plan of Hoistway



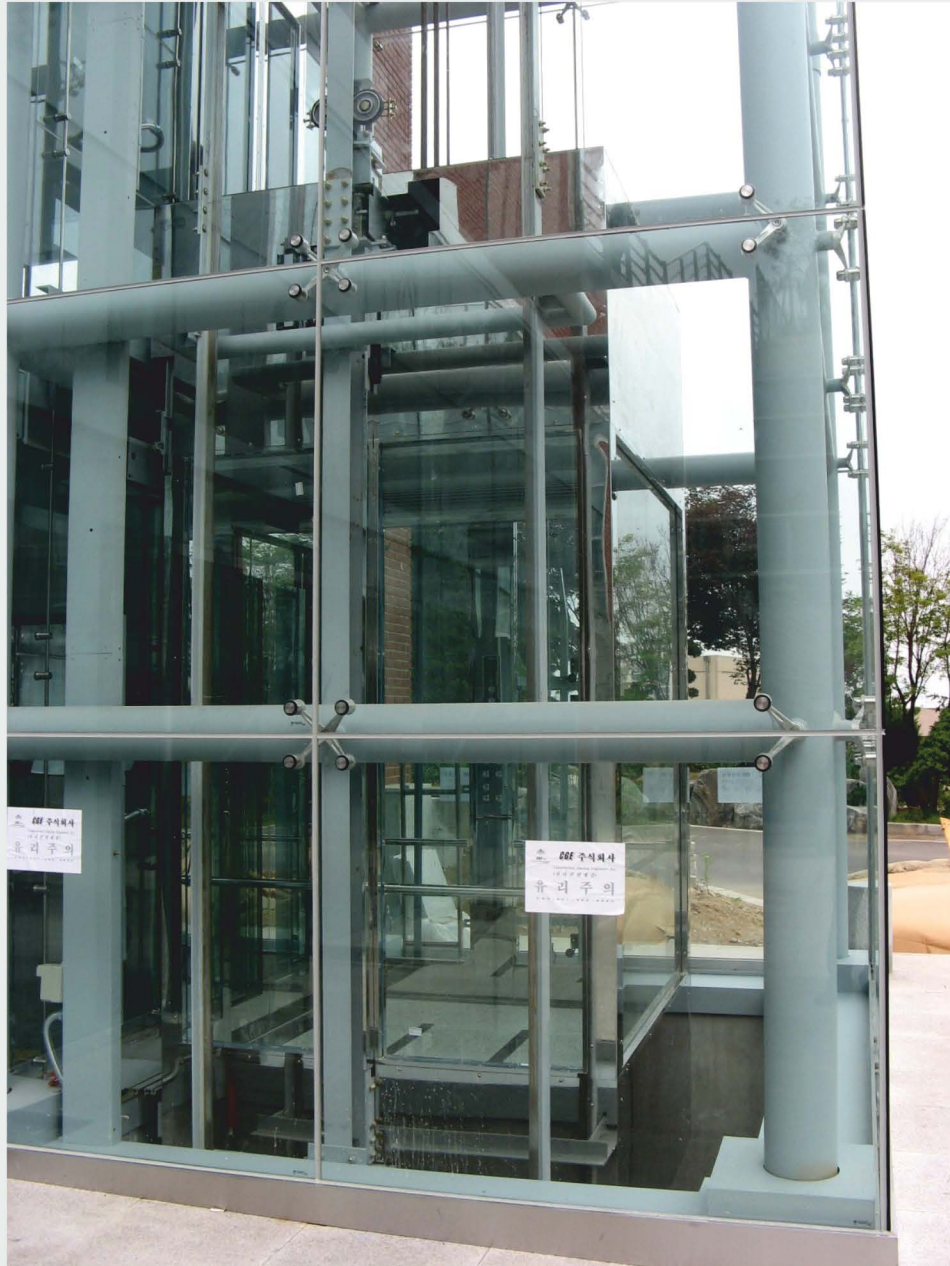
Section of Hoistway

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 for 11 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 (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.*

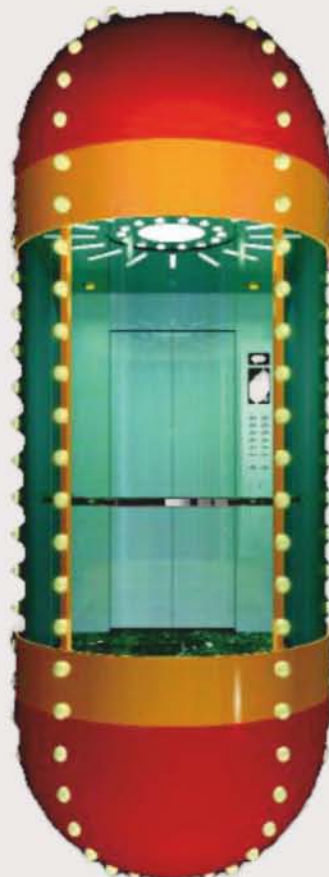
OBSERVATION ELEVATORS ➔

(Also called 'Scenic' or 'Capsule' Elevators in India)



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: SHGQ005

Glass Window	3 Piece Safety Glass
Outer Domes	Color Acrylic with Light Strips
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 Mirror Finish Frame with Decorative Lighting

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



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

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



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:

Capacity (Machine Room Type)	Minimum 11 persons (748 KG), Maximum 20 persons (1360 KG)
Capacity (MRL) -	Minimum 11 persons (748 KG), Maximum 15 persons (1020 KG)
Speed -	Maximum 1.75 MPS

Planning Guide for Capsules SQGQ004, SHGQ005, SHGQ007, SHGQ008 & SC-846A

Speed	Capacity		Standard Size (mm)		Hoist-way Required #		Machine Room Size (mm) *
			Mean Car Internal	Door Opening	Overall	RCC Part for Counterweight	
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	15	1020	1350 x 1900	900 (CO)	2350 x 2450	390 x 1325	NA
1.75							

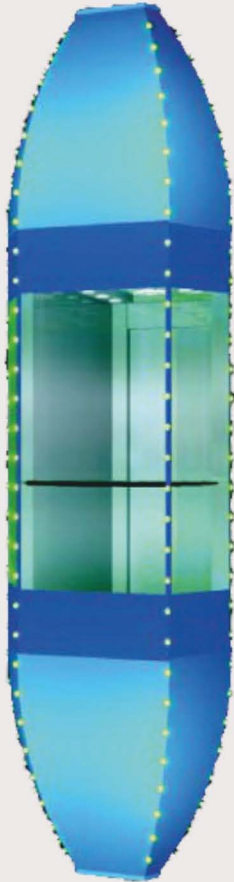
Maximum travel 60M at 1.0 MPS, 70M at 1.5 MPS and 95M at 1.75 MPS.

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:

- (#) Overall hoist-way size including glass cladding at rear.
- (*) Please see footnote on page no.13 on increase in machine room depth requirement with speed.
- Please see table on page no.14 for top floor front wall thickness requirement for MRL elevators.
- Please see Notes on Planning Guide on page no.15.



Capsule Type: SHGQ009

Glass Window	3 Piece Safety Glass
Outer Domes	MS Powder Coated with Light Strips
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 (Machine Room Type)	Minimum 11 persons (748 KG), Maximum 20 persons (1360 KG)
Capacity (MRL) -	Minimum 11 persons (748 KG), Maximum 15 persons (1020 KG)
Speed -	Maximum 1.75 MPS

Planning Guide for Capsule SQGQ009

Speed	Capacity		Standard Size (mm)		Hoist-way Required #		Machine Room Size (mm) *
			Mean Car Internal	Door Opening	Overall	RCC Part for Counterweight	
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 1450	800 (CO)	2500 x 2050	550 x 1200	3700 x 4050
1.5	15	1020	1600 x 1600	900 (CO)	2700 x 2200	550 x 1350	3900 x 4200
1.75	20	1360	1700 x 1870	1000 (CO)	2850 x 2450	550 x 1500	4050 x 4450
MRL (Gearless PMSM Drive)							
1.0	11	748	1300 x 1600	800 (CO)	2200 x 2150	440 x 1200	NA
1.5	15	1020	1350 x 1830	900 (CO)	2350 x 2400	390 x 1250	NA
1.75							

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.13 on increase in machine room depth requirement with speed.
3. Please see table on page no.14 for top floor front wall thickness requirement for MRL elevators.
4. Please see Notes on Planning Guide on page no.15.



Capsule Type: SHGQ-F02

Glass Window	Rear Wall of Safety Glass (Corner to Corner)
Outer Rear Panel	MS Powder Coated
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 Lighting



Capsule Type: SHGQ002

Glass Window	Rear Wall of Safety Glass (End to End)
Outer Rear Panel	MS Powder Coated
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

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

Planning Guide for Capsules SQGQ-F02 & SHGQ002

Speed	Capacity		Standard Size (mm)		Hoist-way Required #		Machine Room Size (mm) *
			Mean Car Internal	Door Opening	Overall	RCC Part for Counterweight	
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 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.13 on increase in machine room depth requirement with speed.
3. Please see table on page no.14 for top floor front wall thickness requirement for MRL elevators.
4. Please see Notes on Planning Guide on page no.15.

Passenger Elevator With Rear wall of Glass in SS Hairline Frame

Lower cost version regular passenger elevator with rear wall of glass in SS hairline frame is also available.

- Same speed and capacity range as regular speed and passenger elevators (i.e. capacity up to 24-persons, 1632KG).
- Standard car and door size for capacity up to 15 persons, 1020 KG and speed up to 1.75 MPS same as tabulated above for capsule types SHGQ-F02 and SHGQ002. Customized size can be offered as per hoist-way available. Please refer to Kinetic Hyundai for customized car size or for size planning of higher (or lower) capacity.
- Overhead and pit depth requirement same as for regular passenger elevators, as tabulated on page nos. 12, 13 & 14.



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

Planning Guide for Capsule SQGQ015

Speed	Capacity		Standard Size (mm)		Hoist-way Required #		Machine Room Size (mm) *
			Mean Car Internal	Door Opening	Overall	RCC Part for Counterweight	
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	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

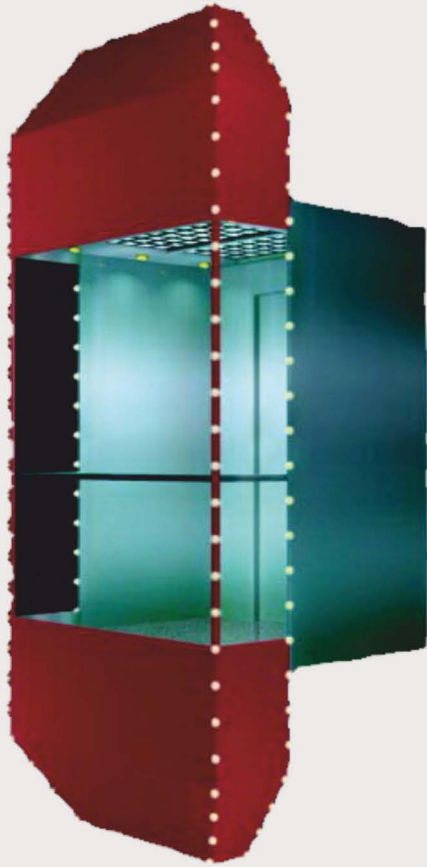
Maximum travel 60M at 1.0 MPS, 70M at 1.5 MPS and 95M at 1.75 MPS.

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

Notes:

- (#) Overall hoist-way size including glass cladding at rear.
- (*) Please see footnote on page no.13 on increase in machine room depth requirement with speed.
- Please see Notes on Planning Guide on page no.15.



Capsule Type: SHGQ001

Glass Window	3 Piece Safety Glass
Outer Domes	MS Powder Coated with Light Strips
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 Lighting

Notes:

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

Planning Guide for Capsule SHGQ001

Speed	Capacity		Standard Size (mm)		Hoist-way Required #		Machine Room Size (mm) *
			Mean Car Internal	Door Opening	Overall	RCC Part for Counterweight	
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	1300 x 1450	800 (CO)	2450 x 2050	550 x 1100	3650 x 4050
1.5	15	1020	1500 x 1600	900 (CO)	2700 x 2200	550 x 1200	3900 x 4200
1.75	20	1360	1700 x 1800	1000 (CO)	2900 x 2400	550 x 1300	4100 x 4600

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

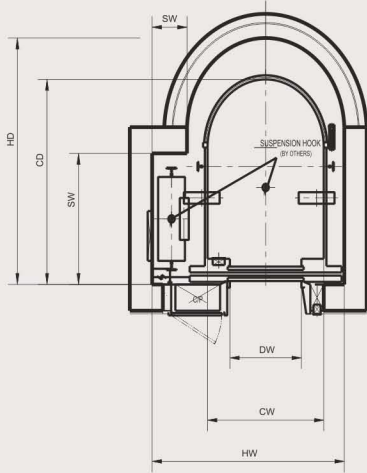
Overhead & Pit Depth Required (mm)

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

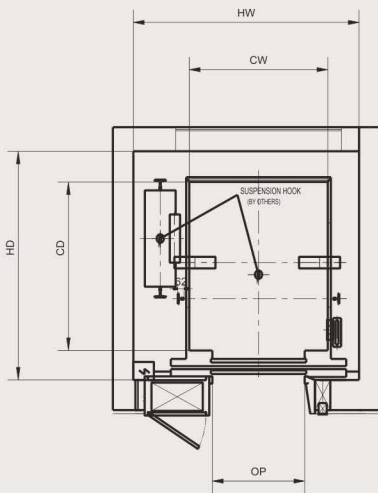
Notes:

1. (#) Overall hoist-way size including glass cladding at rear.
2. (*) Please see footnote on page no.13 on increase in machine room depth requirement with speed.
3. Please see Notes on Planning Guide on page no.15.

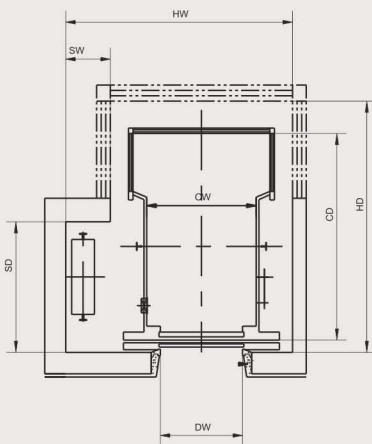
Illustrative Hoist-way Layout - Observation Elevators



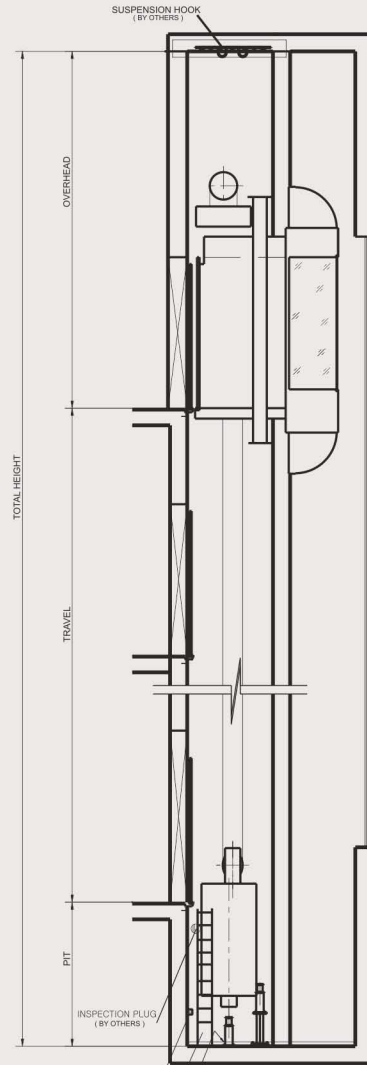
Plan of Hoistway
Capsules SQG004, SHGQ005, SHGQ007,
SHGQ008 & SC-846A



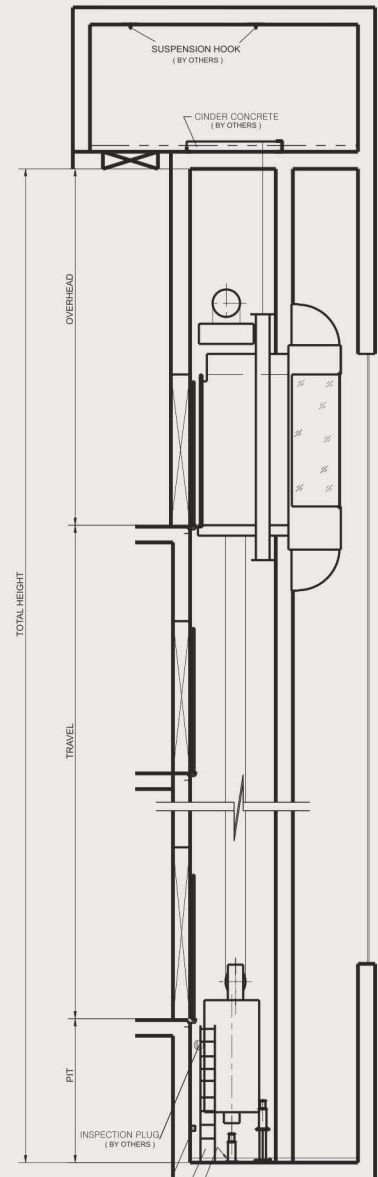
Plan of Hoistway
Capsules SHGQ-F02, SHGQ001 & SHGQ002



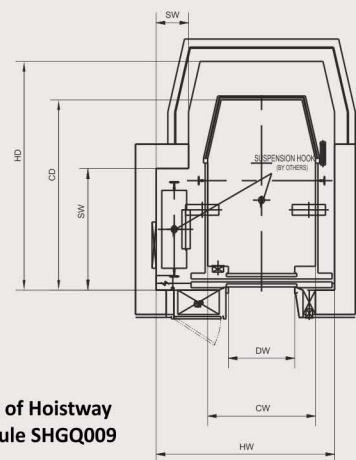
Plan of Hoistway
Capsule SHGQ015



Section of Hoistway - MRL



Section of Hoistway - Machine Room Type



Plan of Hoistway
Capsule SHGQ009

Standard Features

- Selective Collective Control Selective automatic operation by collective all call signals
- VVVF Inverter Drive With Close Loop Encoder Feedback Accurately adjusts motorspeed, which makes elevator start, run and stop smoothly.
- VVVF Inverter Door Drive With Close Loop Encoder Feedback Accurately adjusts door motor speed, which makes door start, open & close and stop smoothly.
- Inspection Operation When inspection switch actuates car inching operation at speed 0.3m/s.
- Automatic Overload Bypass Crowded car with load more than a preset value bypasses hall calls.
- Fireman's Emergency Return and Fireman's Emergency Operation When the key switch at main floor is activated signal 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.
- Car Arrival Chime Electronic chime mounted on car top sounds to indicate the car's arrival.
- Dot Matrix Display Indication Car position displays inside car and on landings with scrolling arrow to indicate the direction in which the car is running.
- Reverse Car Call Cancellation 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.
- False Call Canceling - Button Operation If a mistake is made when pressing a floor button, simply pressing the same button again cancels the call.
- False Call Canceling - Automatic 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.
- Owner Skip Operation Temporarily locking (bypassing) a floor as per customer's requirement.
- Ventilation Fan Lift is fitted with sound free axial flow fan fitted above and hidden by false ceiling.
- Car Ventilation Auto Shut Off 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.
- Car Light Auto Shut Off 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.
- Overload Holding Stop Overloaded car cannot leave the floor and a buzzer is sounded.
- Attendant Service Elevator's can be changed over to attendant service from normal full automatic operation by an override switch in the car operating panel.
- Repeated Door Closing and Opening If an obstacle prevents the doors from closing, the doors repeatedly open and close until the obstacle is cleared.
- Lift Operation Counter The controller records the number of elevator running operations performed.
- Fault Indication When elevator stops due to a fault, the fault is recorded and displayed in the controller.
- Emergency Car Lighting When power fails, battery operated emergency light in car turns on immediately.
- Multi-beam Door Protection Multiple infrared light beams cover the full width and height of the door as the door opens or closes, to detect passengers or objects.
- Interphone with Battery Back Up 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.

Optional Features

- Safety Edge Door Protection Conventional sensitive mechanical door edge to detect pressure from passenger and objects, in lieu of or together with multi-beam protection.
- Voice Synthesizer Floor and elevator status announcement.
- Duplex Control Optimizes the operation of a pair of elevators by dispatching the nearest car to attend a call.
- Group Control Optimizes the operation of a group of 3 to 8 cars by minimizing waiting time, zonal distribution and energy conservation.
- Auxiliary Car Operating Panel Extra car operating panel in large-capacity elevator for passenger convenience. Can be regular vertical layout type or handicap type.
- Swing Type Car Operating Panel Full height car operating panel- an entire return panel forms the car operating panel plate.
- Emergency Landing Device ELD (Automatic Rescue Device ARD) In case of normal power's failure, a rechargeable battery moves the car to the nearest floor.
- Dual Floor Fireman's Emergency Return 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.
- Supervisory Panel Common display panel (for building control room or lobby or security room) with a car position and status display for each lift.
- Hall Lantern 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.
- BMS contact Potential free contacts for BMS at lift control panel, with signals on lift position and status.



version: 2011/12



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Gurgaon	

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