



ELEVATOR DIMENSIONS

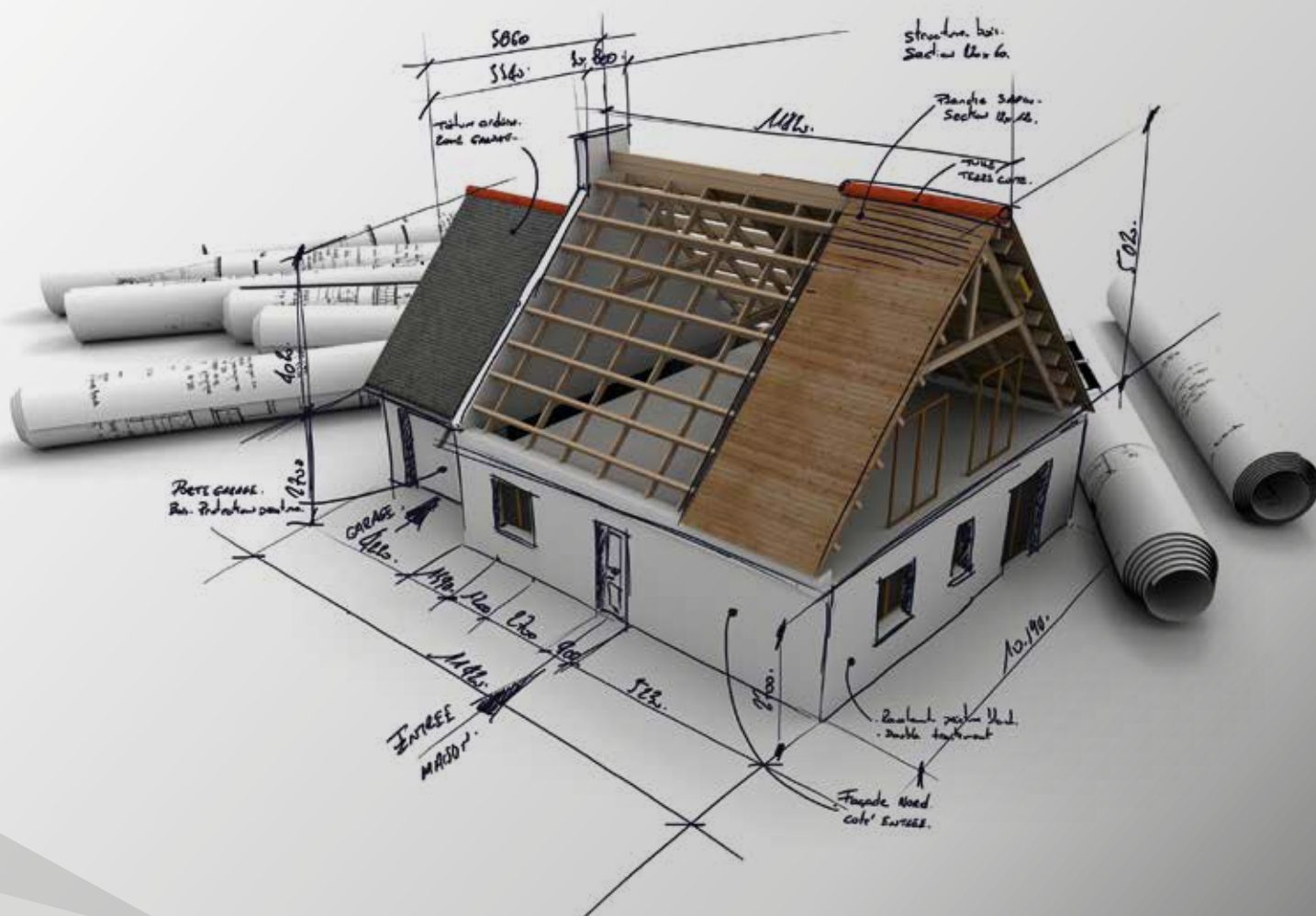




ELEVATORS
BIRLA GROUP CO.

CONTENTS

- ECE History
- Elevator System Design
- ECE - Product Basket
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- Customer Scope of Work - Expectations
- Customer Guide





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ECE - HISTORY



We are ECE...

"We keep you moving... Always!"

- Established in 1945, ECE is one of the leading domestic brand names in electrical equipment and elevators with 60 years of enriched experience.
- The one and only fully integrated manufacturing facility spread over 250,000 square feet in the National Capital Region at Ghaziabad, Uttar Pradesh.
- A dedicated and in-house research and design team.
- Pan India field operations spread across India.
- More than 400 trained employees and growing with a product range positioned to address the entire spectrum of the Indian market.
- ECE Elevators are made in India and our vision is to be the most admired Indian elevator company.
- ECE brings to the industry speed, agility, reliability and the human touch. We understand India better than most.
- ECE team is committed to its customers, the users and the environment.



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ELEVATOR SYSTEM DESIGN

Good elevator system design is critical to a building. Planning of elevator systems must therefore feature very early in overall building design programmes. The quality of vertical transportation (VT) is critical to building circulation and therefore has a profound effect on human response to a building itself. If it is correct, acceptability, reputation and a sound investment are assured. If it is incorrect, it causes disadvantage from which escape is difficult and usually expensive.

Key Components of designing a successful VT system.

Type of building
Application of building
Number of floors
Special floors
Floor to floor distance
Population on each floor
Entry/Exit points
Basement connectivity
Location of building
Peak demand

The optimum VT solution will include the fixation of below:

- Number of elevators
- Speed of elevators
- Capacity of elevators
- Grouping of elevators
- Design components – Entrances /Control systems
- Special floor service
- Door systems
- Number of elevators banks
- Zoning of elevators
- Basement connectivity solution

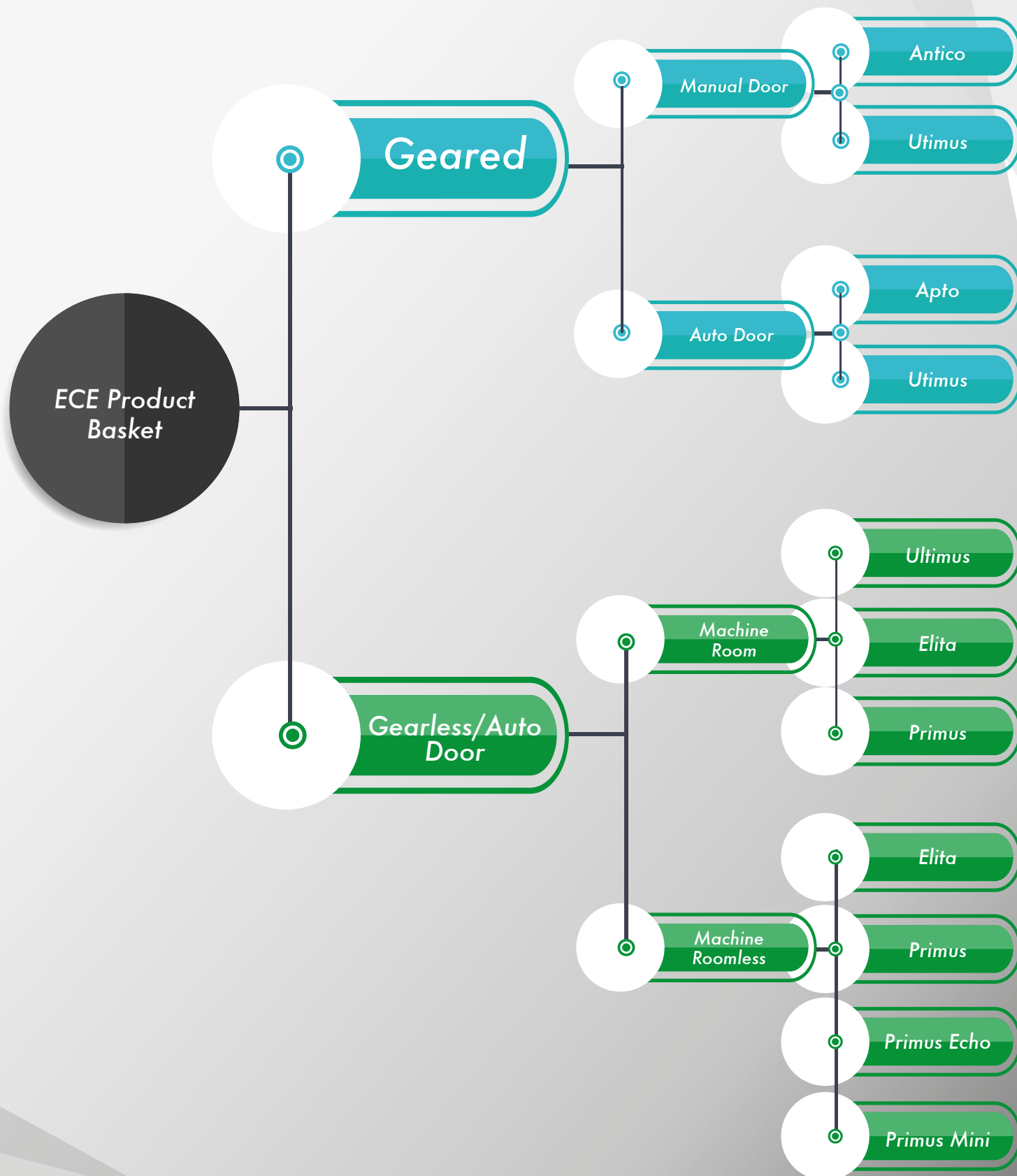
At ECE, we encourage consultative approach with our potential customers in order to arrive at an optimum solution.

For complete VT designs and traffic analysis, please contact us at sales@eceelevators.com



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ECE PRODUCT BASKET ELEVATORS





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ECE PRODUCT BASKET ELEVATORS

	ECE-ELITA	ECE-Primus	ECE-Primus Echo	ECE-Primus Mini	ECE-Apto	ECE-Antico	ECE-Ultimus Goods	ECE-Ultimus Passenger	ECE-Ultimus Automobile	ECE-Ultimus Industrial
MR/MRL	MR/MRL	MR/MRL	MRL	MRL	MR	MR	MR	MR	MR	MR
Machine Type	Gearless PMSM	Gearless PMSM	Gearless PMSM	Geared PMSM	Geared	Geared	Geared/ Gearless	Geared	Gearless	Geared
Capacity Range (Pax)	8-20	5-20	5-6	4	4-26	4-20	1T-5T	5-20	2.5T	1T-5T
Max Travel	120	48	18	12	40	40	40	@	@	@
Max Stops	40	16	6	4	12	12	12	@	@	@
Speed (mps)	1.5/ 1.75/2	1/1.25	0.65	0.2/0.4 [#]	0.5*/0.7 /1	0.5*/0.7	0.25/0.7	@	@	@
Drive	VVVF	VVVF	VVVF	VVVF	VVVF	VVVF	VVVF	VVVF	VVVF	VVVF
Door Type	Automatic	Automatic	Automatic	Automatic	Automatic	Manual	Automatic/ Manual	Automatic	Automatic	Automatic

0.4 mps in select states

* In health care segment only

@ Please contact us at sales@ecelelevators.com



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PRODUCT BASKET

Residential Elevator

- ECE Elevators bring convenience at your doorstep. They are luxurious, spacious and provide safety and reliability. Its soothing lighting, fixtures and varied hues would be in sync with your building's engineering. The ride will be cozy, comfortable and tension free like the lap of a mother. These will be children and senior citizen friendly, easy to enter, easy to operate and are the best options for residents as well as best customization for building organizers.

Office Elevator

- Commercial office building elevator systems must be configured to match the expected traffic requirements both present and future. An office elevator comes under test before the start of working hours, at lunch time and in the evening. Peaks can also be caused by the location of basement conference rooms and restaurants etc. ECE has many years of demonstrated experience and achievement in matching the desired requirements by arranging and conveying versatility answers for such structures. It has the best record in keeping them in top conditions. It also provides less service intervals and low power utilization. ECE offers best customized solutions for the premium space available in the buildings.

Hotel Elevator

- Hotels need a high performance, low break down, smooth operation along with the beautiful aesthetics elevators, ECE takes care of it all. Designed to handle high traffic and avoid long waiting times, ECE provides the best in class aesthetics and customized technical solutions catering to the special needs of hotel business. ECE hotel elevators offer the provision of access control systems which enables the guests to maintain their privacy and security.



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Hospital Elevator

- Generally hospital elevators requirement are laid down by the operating authorities of the hospital. Elevators will be required for patients, visitors, catering, housekeeping and other purpose, for this planning for a suitable dependable solution becomes a priority. ECE offers a unique combination of energy efficient solutions resulting in smooth ride, low waiting time, handicapped friendly and accommodating modern patient's beds and stretchers to give patients and visitors an assuring experience.

Automobile Elevator

- Automobile elevators are used in parking structures, apartment suites, auto dealership and even homes as well. With growing demand of parking space in the buildings and looking at the expensiveness of each length and breadth of the covered area, ECE offers best in class solution of with machine room gearless elevators, keeping everyone ecstatic from building organizers to end users. ECE elevator gives an answer for stopping issues in occupied urban advancements.

Industrial Elevator

- ECE holds the expertise of catering to the industrial elevators building needs, be it the high travel elevator requirement, structural shafts, non-standard hoist way dimensions and specialized in Ingress Protection (IP) which works under the extreme conditions of heavy dust, high pressure water and high/low temperatures. Over many decades ECE has demonstrated the commendable performance for industrial elevators working in power plants, factories, steel plants, cement plants, dams and other industrial category buildings.

ECE Escalator

- ECE-Sword Escalators and Travelators are the best answers to portability situations for expansive open spaces with high activity requests. They are most suitable for airports, metros, shopping malls and railway stations. It facilitates accessibility and administration conveyance. Safety of the travelers is the top priority. In times of emergency these can be stopped and restarted by the riders themselves.



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ELITA

DIMENSION

STD Hoistway / Car Sizes (ECE ELITA - Machine Room Less)								
(Standard ar Height - 2200mm)								
Rated Load (Kgs)	Rated Speed (mps)	Car Size (A) x (B), mm	Min. Hoistway Size (C) x (D), mm	Max. Hoistway Size (C) x (D), mm	Door Size (E) x (H), mm	Door Opening Type (ACO/ATO)	Pit Depth, mm	Overhead, mm
544 Kgs (8 P)	1.5/1.75	1050 x 1300	1750 x 1600	2000 x 1950	800 x 2000	ACO	1600 (1.5 MPS) / 2150 (FOR 1.75 MPS)	4800 (upto 1.75 MPS)
		1300 x 1100	1900 x 1400	2250 x 1750	800 x 2000	ACO		
		1000 x 1350	1600 x 1600*	1950 x 1950	700 x 2000	ACO		
		1000 x 1350	1600 x 1600*	1950 x 1950	700/800 x 2000	ATO		
		950 x 1400	1550 x 1700*	1900 x 2050	800 x 2000	ATO		
680 Kgs (10 P)		1350 x 1300	2000 x 1800	2300 x 1900	800 x 2000	ATO		
		1350 x 1300	2000 x 1700	2300 x 1900		ACO		
		1200 x 1400	1900 x 1800	2150 x 2000		ACO		
		1150 x 1450	1800 x 1700*	2100 x 2050	800 x 2000	ACO		
			1800 x 1800*	2100 x 2150		ATO		
884 Kgs (13 P)		1200 x 1800	1950 x 2100	2150 x 2400	900 x 2000	ACO		
		1050 x 2100	1750 x 2350*	2000 x 2700	800 x 2000	ACO		
		1050 x 2000	1950 X 2250*	2000 x 2600	900 x 2000	ACO		
		1450 x 1450	2100 x 1750	2400 x 2100	900 x 2000	ACO		
		2000 x 1100	2650 x 1600	2950 x 1700	900 x 2000	ACO		
		1050 x 2000	1700 X 2350*	2000 x 2600	900 x 2000	ATO		
		1050 x 2100	1700 x 2450*	2000 x 2800	900 x 2000	ATO		
1020 Kgs (15 P)		1400 x 1750	2150 x 2050	2300 x 2350	1000 x 2000	ACO		
		1450 x 1650	2100 x 1950	2400 x 2250	900 x 2000	ACO		
		1500 x 1600	2150 x 1900	2450 x 2200	900 x 2000	ACO		
	1000 x 2400	1650 x 2700*	1950 x 3050	900 x 2000	ATO			
	1200 x 2000	1950 x 2250*	2100 x 2600	900 x 2000	ACO			
1850 x 2300*		2150 x 2650	1000 x 2000	ATO				
1088 Kgs (16 P)	1400 x 1800	2150 x 2100	2300 x 2400	1000 x 2000	ACO			
	2000 x 1300	2650 x 1700	2950 x 1900	1000 x 2000				
	1600 x 1600	2250 x 1900	2550 x 2100	1000 x 2000				
	1500 x 1700	2200 x 2000	2450 x 2350	1000 x 2000				
	1200 x 2100	1950 x 2350*	2150 x 2700	900 x 2000	ACO			
		1850 x 2400*	2150 x 2750	1000 x 2000	ATO			
1360 Kgs (20 P)	1600 x 1900	2500 x 2250	2650 x 2550	1000 x 2000	ACO			
	1700 x 1800	2600 x 2200	2750 x 2500		ATO			
	1250 x 2500	2100 x 2900	2300 x 3200					

Notes at bottom

1. If any requirement beyond the shaft sizes/car sizes mentioned above please contact us.
- 2.*These shaft sizes have landing sill mechanism on floor hence please contact us for clarification.
3. All dimensions are clear finished lift wells after plastering.
2. Hoistway front wall 230mm brick preferred.
3. Door Below lintel height to be min=clear entrence height +250mm.
4. RCC machine room slab 150 thick designed to sustain minimum 1000 kg/m2 UDL.
5. Front wall at the ground floor to be made only after assembly of cabin.

ACO Automatic Centre Opening
ATO Automatic Telescopic Opening



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ELITA

DIMENSION

STD Hoistway / Car Sizes (ECE ELITA - Machine Room)								
(Standard Car Height - 2200mm)								
Rated Load (Kgs)	Rated Speed (mps)	Car Size (A) x (B), mm	Min. Hoistway Size (C) x (D), mm	Max. Hoistway Size (C) x (D), mm	Door Size (E) x (H), mm	Door Opening Type (ACO/ATO)	Pit Depth, mm	Overhead, mm
544 Kgs (8 P)	1.5 / 1.75 / 2	1300 x 1100	1750 x 1650	2100 x 1750	800 x 2000	ACO	1600 (1.5 MPS) / 2150 (FOR 1.75 MPS) 2200 (2 MPS)	4800 (upto 1.75 MPS) / 5200 (2 MPS)
		1100 x 1300	1500 x 1900	1900 x 2050		ATO		
		1200 x 1200	1600 x 1800	2000 x 1900		ATO		
680 Kgs (10 P)		1350 x 1300	1800 x 1800*	2050 x 1950		ACO		
		1300 x 1350	1700 x 1950	2100 x 2100		ATO		
		1200 x 1400	1750 x 1950	2000 x 2100		ACO		
		1200 x 1400	1600 x 2000	2000 x 2150	ATO			
884 Kgs (13 P)		2000 x 1100	2400 x 1750	2800 x 1800	900 x 2000	ACO		
		1100 x 2000	1750 x 2400	2000 x 2800		ATO		
		1700 x 1250	2100 x 1800	2500 x 1950		ACO		
		1250 x 1700	1650 x 2300*	2050 x 2400		ATO		
		1100 x 2000	1950 x 2400	2000 x 2800		ACO		
1020 Kgs (15 P)		2000 x 1200	2400 x 1800	2800 x 1900	1000 x 2000	ACO		
		1200 x 2000	1850 x 2400	2100 x 2800		ATO		
		1000 x 2400	1750 x 2800	1950 x 3200	900 x 2000	ATO		
		1600 x 1500	2150 x 2000*	2400 x 2150		ACO		
1088 Kgs (16 P)	1600 x 1600	2300 x 1950*	2500 x 2300	1000 x 2000	ACO			
	2000 x 1300	2500 x 1800*	2800 x 1950		ACO			
	1200 x 2100	1900 x 2500	2150 x 2900		ATO			
	1050 x 2400	1850 x 2800	2000 x 3200		ATO			
	1360 Kgs (20 P)	2000 x 1550	2450 x 2150		2800 x 2250	1000 x 2000	ACO	
1800 x 1700		2300 x 2300	2600 x 2450	ACO				
1250 x 2500		2050 x 2900	2200 x 3300	ATO				

- All dimensions are clear finished lift wells after plastering.
- Dimensions in the machine room depend on number and orientation of lift shafts. Lifting hook is required in machine room slab.
All walls minimum 150mm (RCC) or 230 mm (brick).
- Hoistway front wall 230mm brick preferred.
- Door Below lintel height to be min=clear entrence height +250mm.
- RCC machine room slab 150 thick designed to sustain minimum 1000 kg/m2 UDL.
- Front wall at the ground floor to be made only after assembly of cabin.
- Machine room width = Hoistway width+1500mm
- Machine room depth = Hoistway depth+2000mm
- Machine room height upto 8 pax = >2500 mm , below load hook/hoist beam.
- Machine room height above 8 pax = >3000 mm , below load hook/hoist beam.
- For specific requirements beyond above mentioned dimensions ,please contact us.
- *These shaft sizes have landing sill mechanism on floor hence please contact us for clarification.
- If any requirement beyond the shaft sizes/car sizes mentioned above please contact us.

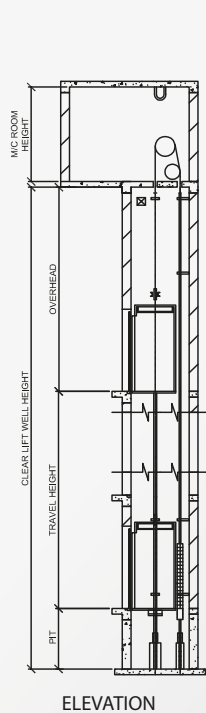
ACO Automatic Centre Opening
ATO Automatic Telescopic Opening



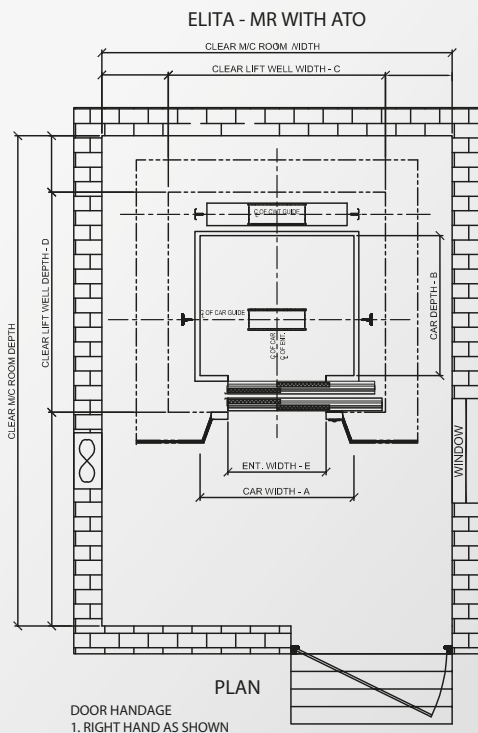
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ELITA

DRAWING

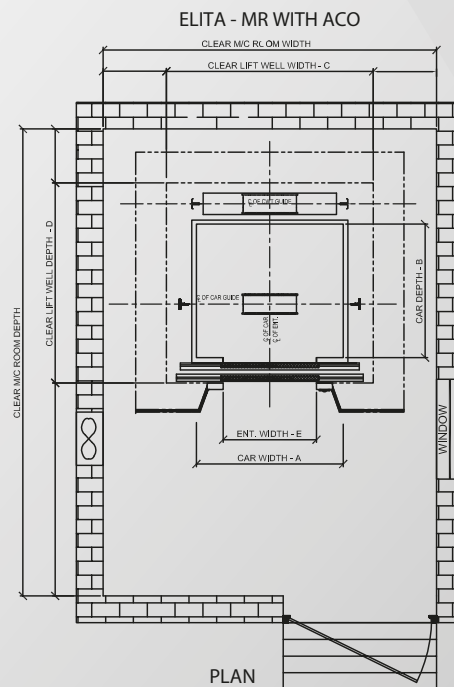


ELEVATION



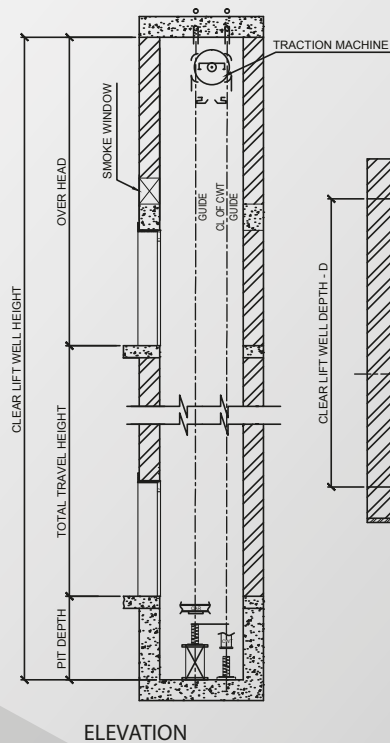
ELITA - MR WITH ATO

PLAN

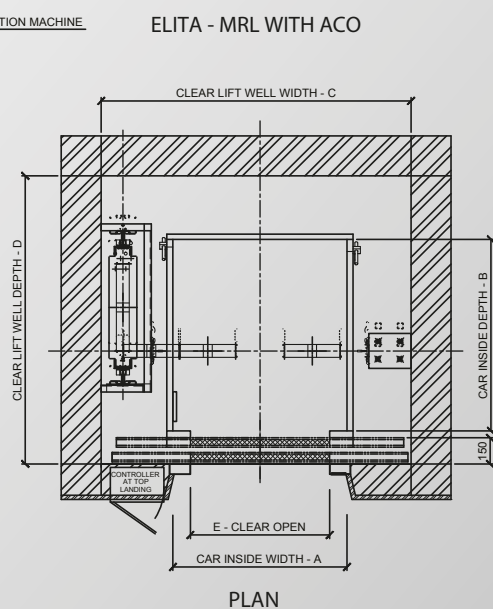


ELITA - MR WITH ACO

PLAN

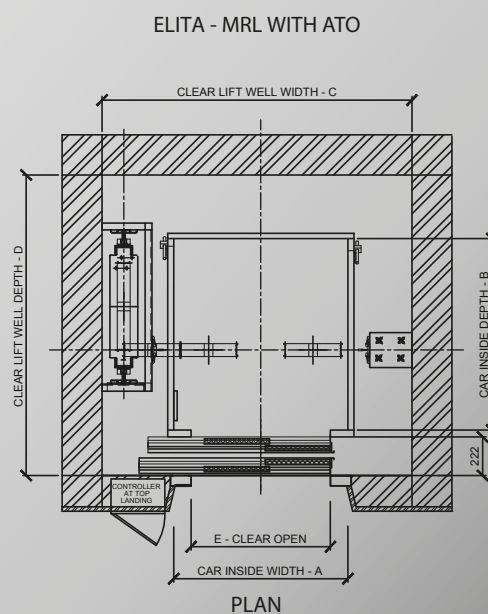


ELEVATION



ELITA - MRL WITH ACO

PLAN



ELITA - MRL WITH ATO

PLAN



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BIRLA GROUP CO.

PRIMUS

MR WITH ACO / ATO

DIMENSION

STD Hoistway / Car Sizes (ECE PRIMUS - Machine Room)								
(Standard Car Height - 2200mm)								
Rated Load (Kgs)	Rated Speed (mps)	Car Size (A) x (B), mm	Min. Hoistway Size (C) x (D), mm	Max. Hoistway Size (C) x (D), mm	Door Size (E) x (H), mm	Door Opening Type (ACO/ATO)	Pit Depth, mm	Overhead, mm
340 Kgs (5 P)	1/1.25	1100x850	1550x1350	1900x1600	700x2000	ACO	1500-1mps, 1600-1.25 mps	4200-1mps 4250-1.25mps
		1000x850	1400x1500	1800x1650		ATO		
408 Kgs (6 P)		1100x1000	1550x1500	1900x1700	700x2000	ACO		
		1200x900	1600x1400	2000x1600				
		1100x1000	1750x1500	1900x1700	800x2000	ATO		
		1000x1000	1400x1600	1800x1750				
544 Kgs (8 P)		1300 x 1100	1750x1650	2100x1750	800 x 2000	ACO		
		1100x1300	1500x1900	1900x2050		ATO		
		1200x1200	1600x1800	2000x1900		ATO		
680 Kgs (10 P)		1350 x 1300	1800x1800*	2050x1950	800 x 2000	ACO		
		1300x1350	1700x1950	2100x2100		ATO		
		1200x1400	1750x1950	2000x2100		ACO		
		1200x1400	1600x2000	2000x2150		ATO		
884 Kgs (13 P)		2000 x 1100	2400x1750	2800x1800	900 x 2000	ACO		
		1100x2000	1750x2400	2000x2800		ATO		
		1700x1250	2100x1800	2500x1950		ACO		
		1250x1700	1650x2300*	2050x2400		ATO		
		1100x2000	1950x2400	2000x2800		ACO		
1020 Kgs (15 P)		2000 x 1200	2400x1800	2800x1900	1000 x 2000	ACO		
		1200 x 2000	1850x2400	2100x2800		ATO		
	1000x2400	1750x2800	1950x3200	900 x 2000	ATO			
	1600x1500	2150x2000*	2400x2150		ACO			
1088 Kgs (16 P)	1600x1600	2300x1950*	2500x2300	1000 x 2000	ACO			
	2000x1300	2500x1800*	2800x1950		ACO			
	1200x2100	1900x2500	2150x2900		ATO			
	1050x2400	1850x2800	2000x3200		ATO			
	2000x1550	2450x2150	2800x2250		ACO			
1360 Kgs (20 P)	1800x1700	2300x2300	2600x2450	1000 x 2000	ACO			
	1250x2500	2050x2900	2200x3300		ATO			
					1600	4500		

- All dimensions are clear finished lift wells after plastering.
- Dimensions in the machine room depend on number and orientation of lift shafts. Lifting hook is required in machine room slab.
All walls minimum 150mm (RCC) or 230 mm (brick).
- Hoistway front wall 230mm brick preferred.
- Door Below lintel height to be min=clear entrence height +250mm.
- RCC machine room slab 150 thick designed to sustain minimum 1000 kg/m2 UDL.
- Front wall at the ground floor to be made only after assembly of cabin.
- Machine room width = Hoistway width+1500mm
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ACO Automatic Centre Opening
ATO Automatic Telescopic Opening



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PRIMUS

MRL WITH ACO / ATO

DIMENSION

STD Hoistway / Car Sizes (ECE PRIMUS - Machine Room Less)								
(Standard Car Height - 2200mm)								
Rated Load (Kgs)	Rated Speed (mps)	Car Size (A) x (B), mm	Min. Hoistway Size (C) x (D), mm	Max. Hoistway Size (C) x (D), mm	Door Size (E) x (H), mm	Door Opening Type (ACO/ATO)	Pit Depth, mm	Overhead, mm
340 Kgs (5 P)	1/1.25	850 x 1000	1550 x 1400	1800 x 1650	700 x 2000	ACO	1500-1mps, 1600-1.25 mps	4200-1mps 4250-1.25mps
			1450 x 1350*	1750 x 1650	700 x 2000	ATO		
408 Kgs (6 P)		1000 x 1100	1600 x 1450	1950 x 1750	700 x 2000	ACO		
		1000 x 1100	1725 x 1400	1950 x 1700	800 x 2000	ACO		
		1050 x 1050	1650 x 1350*	2000 x 1650	700 x 2000	ACO		
544 Kgs (8 P)		850 x 1180	1450 x 1450*	1800 x 1800	700 x 2000	ATO		
		1050 x 1300	1750 x 1600	2000 x 1950	800 x 2000	ACO		
		1300 x 1100	1900 x 1400	2250 x 1750	800 x 2000	ACO		
		1000 x 1350	1600 x 1600*	1950 x 1950	700 x 2000	ACO		
		1000 x 1350	1600 x 1600*	1950 x 1950	700/800 x 2000	ATO		
680 Kgs (10 P)		950 x 1400	1550 x 1700*	1900 x 2050	800 x 2000	ATO		
		1350 x 1300	2000 x 1800	2300 x 1900	800 x 2000	ATO		
		1350 x 1300	2000 x 1700	2300 x 1900		ACO		
		1200 x 1400	1900 x 1800	2150 x 2000	ACO			
		1150 x 1450	1800 x 1700*	2100 x 2050	800 x 2000	ACO		
884 Kgs (13 P)		1800 x 1800*	2100 x 2150	2100 x 2150	800 x 2000	ATO		
		1200 x 1800	1950 x 2100	2150 x 2400	900 x 2000	ACO		
		1050 x 2100	1750 x 2350*	2000 x 2700	800 x 2000	ACO		
		1050 x 2000	1950 X 2250*	2000 x 2600	900 x 2000	ACO		
		1450 x 1450	2100 x 1750	2400 x 2100	900 x 2000	ACO		
	2000 x 1100	2650 x 1600	2950 x 1700	900 x 2000	ACO			
	1050 x 2000	1700 X 2350*	2000 x 2600	900 x 2000	ATO			
	1050 x 2100	1700 x 2450*	2000 x 2800	900 x 2000	ATO			
1020 Kgs (15 P)	1400 x 1750	2150 x 2050	2300 x 2350	1000 x 2000	ACO			
	1450 x 1650	2100 x 1950	2400 x 2250	900 x 2000	ACO			
	1500 x 1600	2150 x 1900	2450 x 2200	900 x 2000	ACO			
	1000 x 2400	1650 x 2700*	1950 x 3050	900 x 2000	ATO			
	1200 x 2000	1950 x 2250*	2100 x 2600	900 x 2000	ACO			
		1850 x 2300*	2150 x 2650	1000 x 2000	ATO			
1088 Kgs (16 P)	1400 x 1800	2150 x 2100	2300 x 2400	1000 x 2000	ACO			
	2000 x 1300	2650 x 1700	2950 x 1900	1000 x 2000				
	1600 x 1600	2250 x 1900	2550 x 2100	1000 x 2000				
	1500 x 1700	2200 x 2000	2450 x 2350	1000 x 2000				
	1200 x 2100	1950 x 2350*	2150 x 2700	900 x 2000	ATO			
		1850 x 2400*	2150 x 2750	1000 x 2000				
1360 Kgs (20 P)	1600 x 1900	2500 x 2250	2650 x 2550	1000 x 2000	ACO			
	1700 x 1800	2600 x 2200	2750 x 2500		ATO			
	1250 x 2500	2100 x 2900	2300 x 3200					

Notes at bottom

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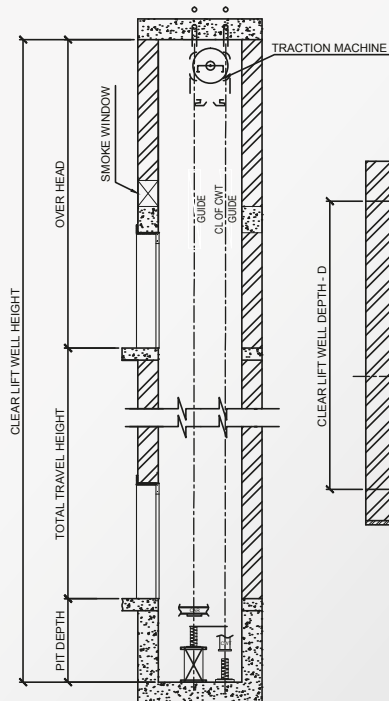
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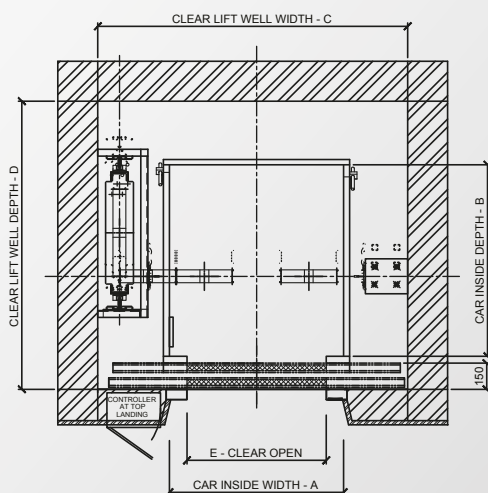
PRIMUS

DRAWING



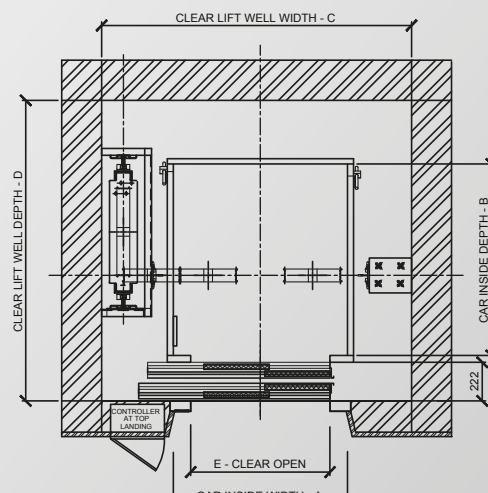
ELEVATION

PRIMUS - MRL WITH ACO



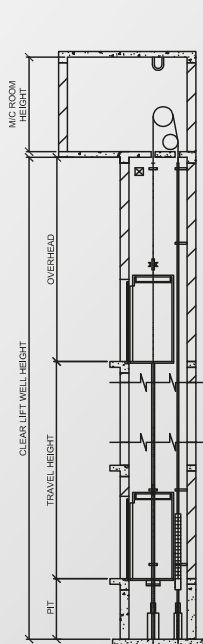
PLAN

PRIMUS - MRL WITH ATO

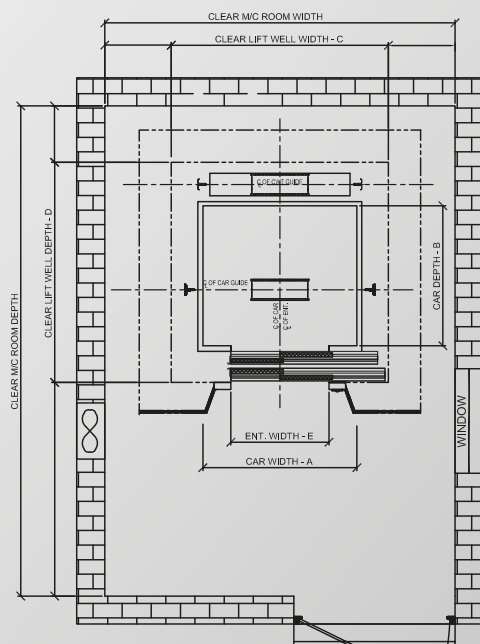


PLAN

PRIMUS - MR WITH ATO



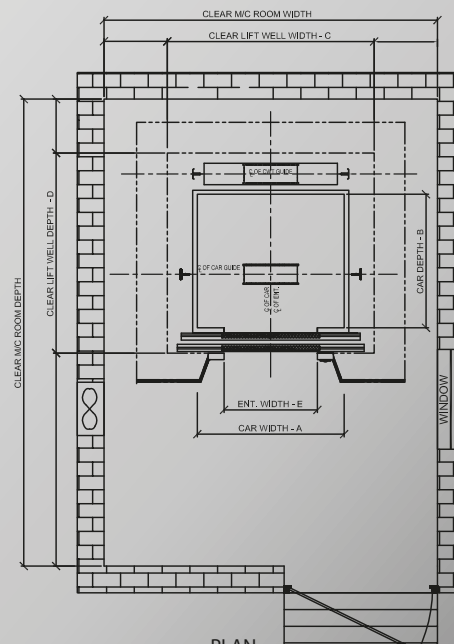
ELEVATION



PLAN

DOOR HANDAGE
1. RIGHT HAND AS SHOWN

PRIMUS - MR WITH ACO



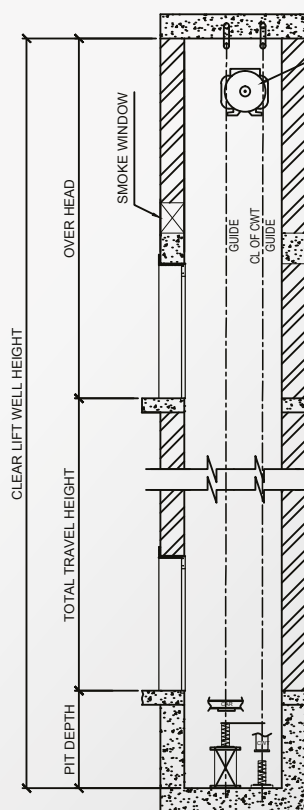
PLAN



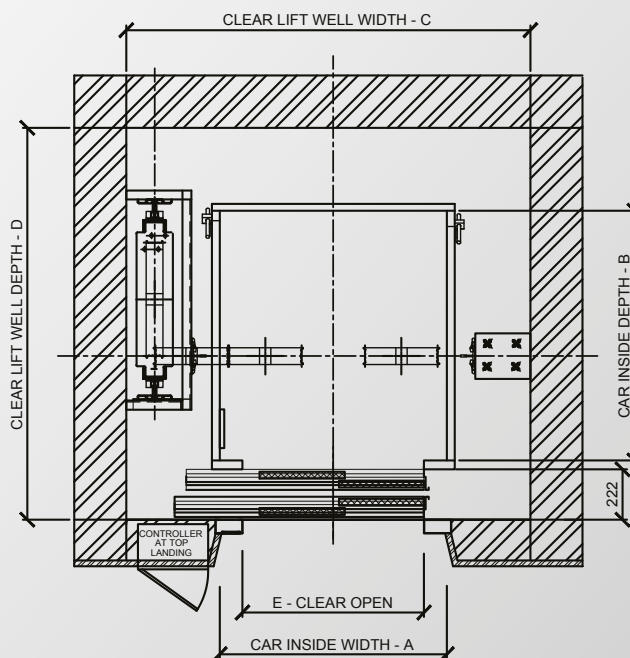
ELEVATORS
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PRIMUS MINI

DIMENSION & DRAWING



ELEVATION



PLAN

Rated Load (Kgs)	Rated Speed (mps)	Car Size (A) x (B), mm	Min. Hoistway Size (C) x (D), mm	Max. Hoistway Size (C) x (D), mm	Door Size (E) x (H), mm	Door Opening Type (ACO/ATO)	Pit Depth, mm	Overhead, mm
272Kgs (4p)	0.2/0.4*	750 x 1000	1450 x 1350	Bubble type side panels	700 x 2000	ATO	500	3400
			1400 x 1350	Straight panels				
		900 x 1150	1600 x 1500	Bubble type side panels	800 x 2000	ATO	500	3400
			1550 x 1500	Straight panels				

* 0.4 mps available in select states



STD Hoistway / Car Sizes (ECE APTO Machine Room)								
Rated Load (Kgs)	Rated Speed (mps)	Car Size (A) x (B), mm	Min. Hoistway Size (C) x (D), mm	Max. Hoistway Size (C) x (D), mm	Door Size (E) x (H), mm	Door Opening Type (ACO/ATO)	Pit Depth, mm	Overhead, mm
272 Kgs (4 P)	0.7	1100 x 700	1550 x 1200	1800 x 1350	700 x 2000	ACO	1350	4300
		900 x 850	1300 x 1450	1600 x 1600	700 x 2000	ATO		
340 Kgs (5 P)		1100 x 850	1550 x 1350	1800 x 1500	700 x 2000	ACO		
		1000 x 850	1400 x 1500	1700 x 1600	700 x 2000	ATO		
408 Kgs (6 P)	0.7 / 1	1100 x 1000	1550 x 1500	1800 x 1650	700 x 2000	ACO		
		1200 x 900	1600 x 1400	1900 x 1550	700 x 2000	ACO		
		1100 x 1000	1750 x 1500	1800 x 1650	800 x 2000	ACO		
		1000 x 1000	1400 x 1600	1700 x 1750	700 x 2000	ATO		
544 Kgs (8 P)	0.7 / 1	1300 x 1100	1750 x 1650	2050 x 1750	800 x 2000	ACO		
		1200 x 1200	1600 x 1800	1950 x 1950	800 x 2000	ATO		
680 Kgs (10 P)	0.7 / 1	1350 x 1300	1800 x 1800	2100 x 1950	800 x 2000	ACO		
		1300 x 1350	1700 x 1950	2050 x 2100	800 x 2000	ATO		
884 Kgs (13 P)	0.7 / 1	2000 x 1100	2400 x 1750	2750 x 1750	900 x 2000	ACO		
		1100 x 2000	1750 x 2400	2000 x 2450	900 x 2000	ATO		
		1700 x 1250	2100 x 1800	2450 x 1900	900 x 2000	ACO		
		1250 x 1700	1650 x 2300	2000 x 2450	900 x 2000	ATO		
		1100 x 2000	1950 x 2400	2000 x 2450	900 x 2000	ACO		
1020 Kgs (15 P)	0.7 / 1	2000 x 1200	2400 x 1800	2750 x 1850	1000 x 2000	ACO		
		1200 x 2000	1850 x 2400	2100 x 2450	1000 x 2000	ATO		
		1000 x 2400	1700 x 2800	1900 x 2850	900 x 2000	ATO		
		1600 x 1500	2150 x 2000	2350 x 2150	1000 x 2000	ACO		
1088 Kgs (16 P)	0.7 / 1	1600 x 1600	2300 x 1950	2500 x 2050	1000 x 2000	ACO		
	0.7 / 1	2000 x 1300	2500 x 1800	2750 x 2000	1000 x 2000	ACO		
1360 Kgs (20 P)	0.7 / 1	2000 x 1500	2500 x 2100	2750 x 2200	1000 x 2000	ACO		

- All dimensions are clear finished lift wells after plastering.
- Dimensions in the machine room depend on number and orientation of lift shafts. Lifting hook is required in machine room slab .
All walls minimum 150mm (RCC) or 230 mm (brick).
- Hoistway front wall 230mm brick preferred.
- Door Below lintel height to be min=clear entrence height +250mm.
- RCC machine room slab 150 thick designed to sustain minimum 1000 kg/m2 UDL.
- Front wall at the ground floor to be made only after assembly of cabin.
- Machine room width = Hoistway width+1500mm
- Machine room depth = Hoistway depth+2000mm
- Machine room height upto 8 pax = >2500 mm , below load hook/hoist beam.
- Machine room height above 8 pax = >3000 mm , below load hook/hoist beam.
- For specific requirements beyond above mentioned dimensions ,please contact us.

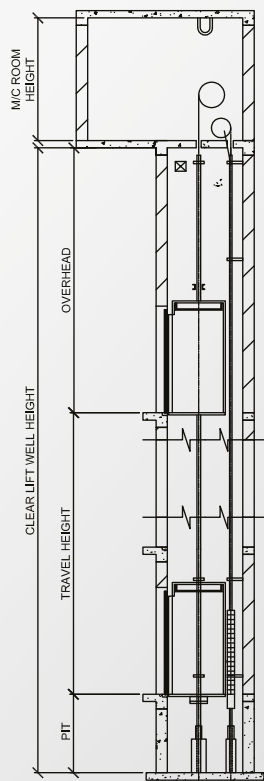
ACO Automatic Centre opening
ATO Automatic Telescopic opening



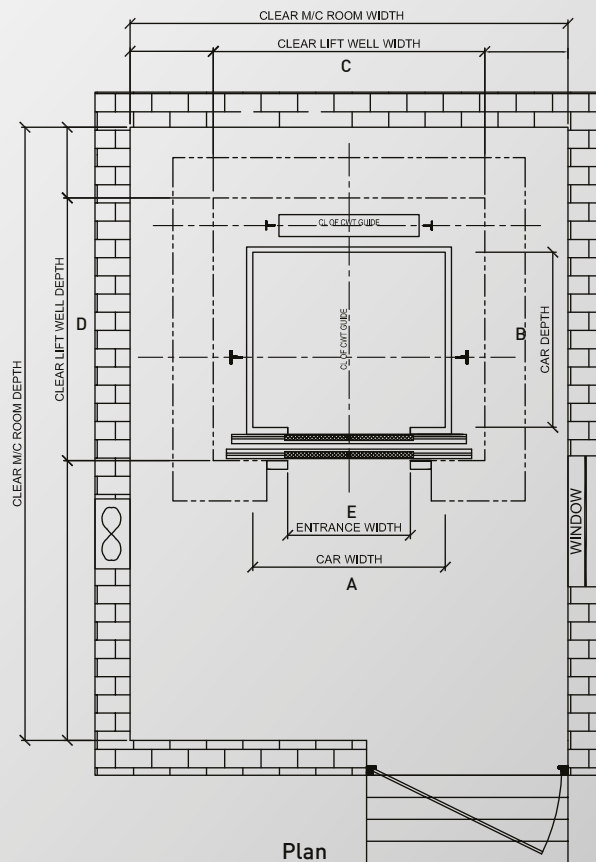
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BIRLA GROUP CO.

APTO

DRAWING



Elevation



Plan



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PRIMUS ECHO

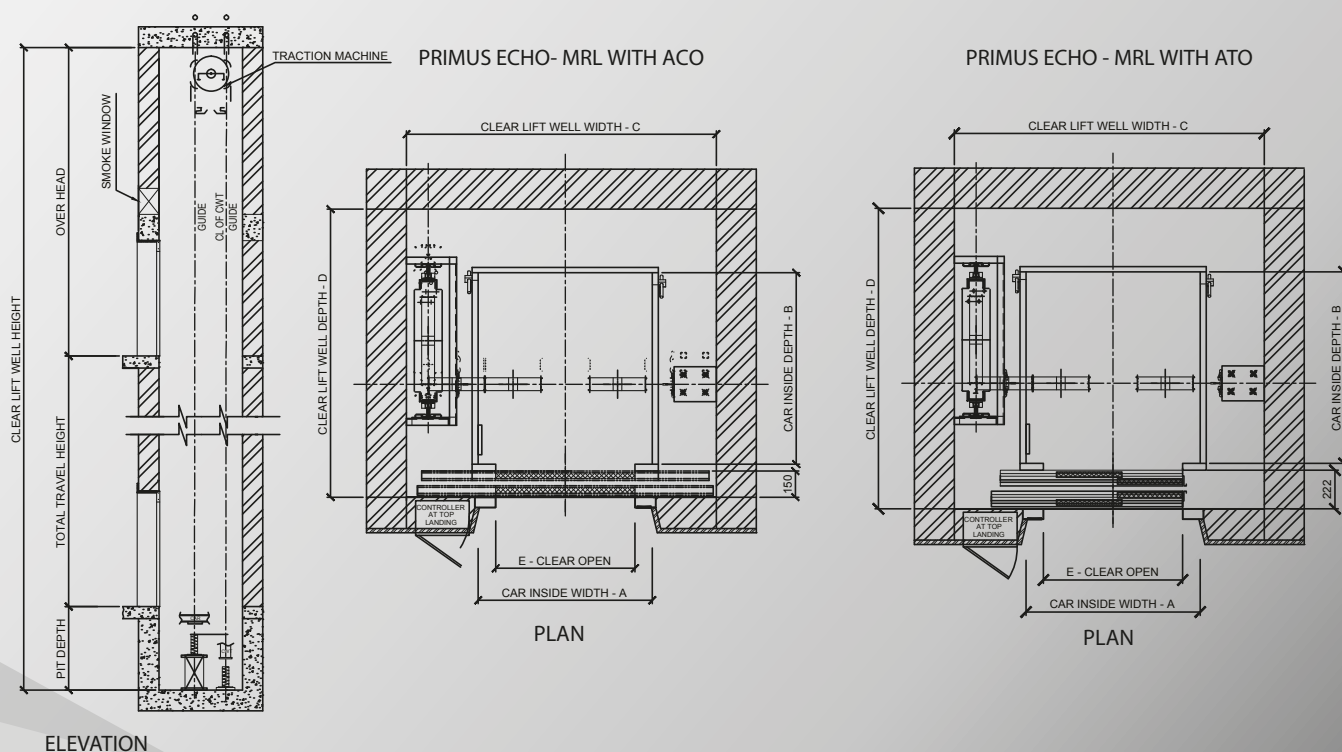
DIMENSION & DRAWING

STD Hoistway / Car Sizes (ECE PRIMUS ECHO - Machine Room Less)							
(Standard Car Height - 2200mm)							
Rated Load (Kgs)	Rated Speed (mps)	Car Size (A) x (B), mm	Standard Hoistway Size (C) x (D), mm	Door Size (E) x (H), mm	Door Opening Type (ACO/ATO)	Pit Depth, mm	Overhead, mm
340 Kgs (5 P)	0.65	800 x 1100	1450 x 1450	700	ATO	3700	1300
408 Kgs (6 P)		850 X 1200	1500 X 1500	700	ATO		
		900 X 1150	1575 X 1400	700	ACO		
		950 X 1150	1600 X 1400	700	ACO		
		1000 X 1100	1700 X 1400	700	ACO		
		1100 X 1000	1800 X 1400	700	ACO		
		1000 X 1100	1750 X 1400	800	ACO		
		950 X 1150	1625 X 1450	800	ATO		

Notes at bottom

1. Delhi, Haryana, Assam, Gujrat & West Bengal required 4200 overhead
2. Delhi, Haryana, Assam, Gujrat & West Bengal required 1600 Pit
3. All dimensions are clear finished lift wells after plastering.
2. Hoistway front wall 230mm brick preferred.
3. Door Below lintel height to be min=clear entrence height +250mm.
4. RCC machine room slab 150 thick designed to sustain minimum 1000 kg/m² UDL.
5. Front wall at the ground floor to be made only after assembly of cabin.

ACO Automatic Centre Opening
ATO Automatic Telescopic Opening





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Customer scope of work - Expectations

ECE standard design minimises the customer scope of work hence save costs.

The following work from your side is necessary for the timely execution of the project.

GENERAL

- All statutory permissions for starting the execution, completion and handing over the lift from various authorities if applicable. The elevator installation will start after receiving all necessary statutory approvals applicable as per the state laws.
- Necessary civil and electrical works as shall be specified and notified in ECE General Arrangement Drawings (GAD).
- Lift Scaffolding in the Lift shaft where specifically asked for.

STORAGE REQUIREMENTS FOR LIFT MATERIALS

- Availability and possession of a dry, lockable and weatherproof storage room of area 35 sq. mt. per lift till the lift is handed over. This is required at upper ground floor & in the close vicinity of the lift shafts. The store room should have adequate lighting arrangement with power plug of 15 Amp. capacity & adequate ventilation.
Storage area for heavy materials like machine, guide rails, car frame CWT frame, filler weights etc should be provided and it should be accessible by forklift /truck and protected from rains and water logging. This area should be within a radius of 10 mt. from the lift shafts.

MACHINE ROOM/HEADROOM

- Adequate ventilation for machine room with rain protected windows or louvers with exhaust fans or air-conditioning system so that the temperature of the machine room does not exceed 45° C. (Not applicable for MRL)
- Suitable access door preferably with louvers to machine room with RCC steps or M.S. Staircase with hand railing. (Not applicable for MRL)
- Machine room access door should be of M.S. in two panels hinged type construction opening outward and clear entrance not less than 900mm wide x 2000mm high with a proper locking arrangement. A danger notice board must be displayed permanently on outside. (Not applicable for MRL)



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- A trap door with steel enclosure should be provided for each machine room. (Not applicable for MRL)
- Hoisting beams of required lifting capacity need to be provided as per the GAD and the safe working load (SWL) needs to be specified and marked in the machine room/headroom. Reinforced concrete machine room slab of 230mm thickness designed to sustain more than 1000 Kg/sq. mts. U.D.L. all over its surface in addition to specific load shown. (Not applicable for MRL)
- Machine room floor slab must be cast after the slab marking for rope pocket holes is done by our installation team. Minimum RCC Grade M35/M40 as per IS:456 and Min.RCC thickness to be 200mm (Not applicable for MRL)
- Machine room walls, floor and ceiling to be treated and painted to minimize accumulation and circulation of dust. (Not applicable for MRL)
- Suitable IPS flooring of thickness 50mm (minimum) after installing all equipment in place. (Not applicable for MRL)
- RCC pedestal for fixing the machine bed frame if specified in the GAD.

POWER & LIGHTING CIRCUITS AND SWITCHES

- 415 V, 50 Hz, 3 Phase, 4 wire type of armored cable of size specified in the GAD. (Copper) per phase from meter room to Main Switch (MCB +ELCB) in Machine room with distribution box.
- One light switch of 230 V, 50 Hz, Single Phase and of capacity 10 amps. to be connected to 415 V main line in machine room before three 3 Phase power supply to the main switch.
- Two separate earth terminals in machine room as per local code. (25mm X 3mm copper strips recommended).
- Adequate permanent lighting arrangement with switch in machine room.
- Convenient outlet 15A in machine room for use of power tools.
- 230 V light points along with the bulb in bulkhead fitting and a 3-pin plug and switch on wooden board in lift shaft at 0.5 meters distance from highest and lowest point in shaft and intermediate point at 3.5 meters spacing. Lowest board should have a parallel switch that can be operated from the floor.
- In case if power is not available in quantity / quality, you need to provide us with alternative source of power supply through a generator during our commissioning work.



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HOISTWAY





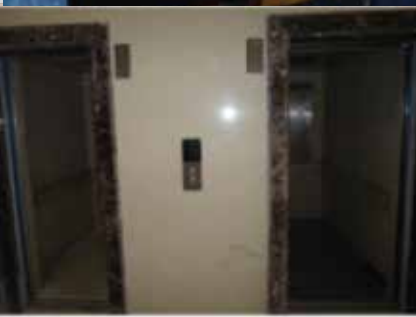

- White wash and plaster of elevator hoist way before start of installation.
- Hoistway of dimensions mentioned in layout drawings are minimum clear plumb dimensions in mm, and hence the actual wall should not encroach on these dimensions.
- The hoist way should be without any projection and recess from machine room to the pit floor.
- If any projections or recesses are there, then those should be flushed and leveled on underside to an angle not less than 60° from the horizontal by means of metal plates or cement.
- Service pipes, ventilation ducts, electrical conduits etc. for other purpose are not allowed to run in lift well and machine room.
- Front wall at the ground floor and top floor must not be constructed until all lift equipment is set in position.
- Entrance wall with rough opening of width indicated to be constructed.
The lintel should be cast for every landing with the height from finished floor level to underside of lintel as indicated on the layouts.
- All landing entrances of the lift should be closed properly and protected by suitable material till lift installation is completed.
Smoke window with louvers to be provided below top slab in the hoistway as per the GAD.
- The lobby architrave would need to be carried out on installation of doors. Also adequate measures should be taken to protect the landing doors and landing fixtures from damage and breakage during the architrave work.
- Adequate measures should be taken to prevent water from seeping into the hoist way at all times.
- Fascias for flush hoist way walls free of setbacks or projections.
- Full height fascia to be provided where the distance between car sill to front wall shaft inside is more than 135 mm.
- **Note: 1) All the walls of the lift shafts 9 inches brick or 6 inches RCC.
2) ECE recommends the RCC lift shaft for better performance.**

PIT

- Pit floor should be strong enough to bear the load as indicated. Minimum RCC Grade M35/M40 as per IS:456 and Min.RCC thickness to be 150mm
- Pit floor should be maintained in dry and clean condition.
- RCC pedestal for fixing car and counterweight buffers wherever required.
- Pit floor and walls to be treated for waterproofing and white washed to minimize accumulation and circulation of dust.

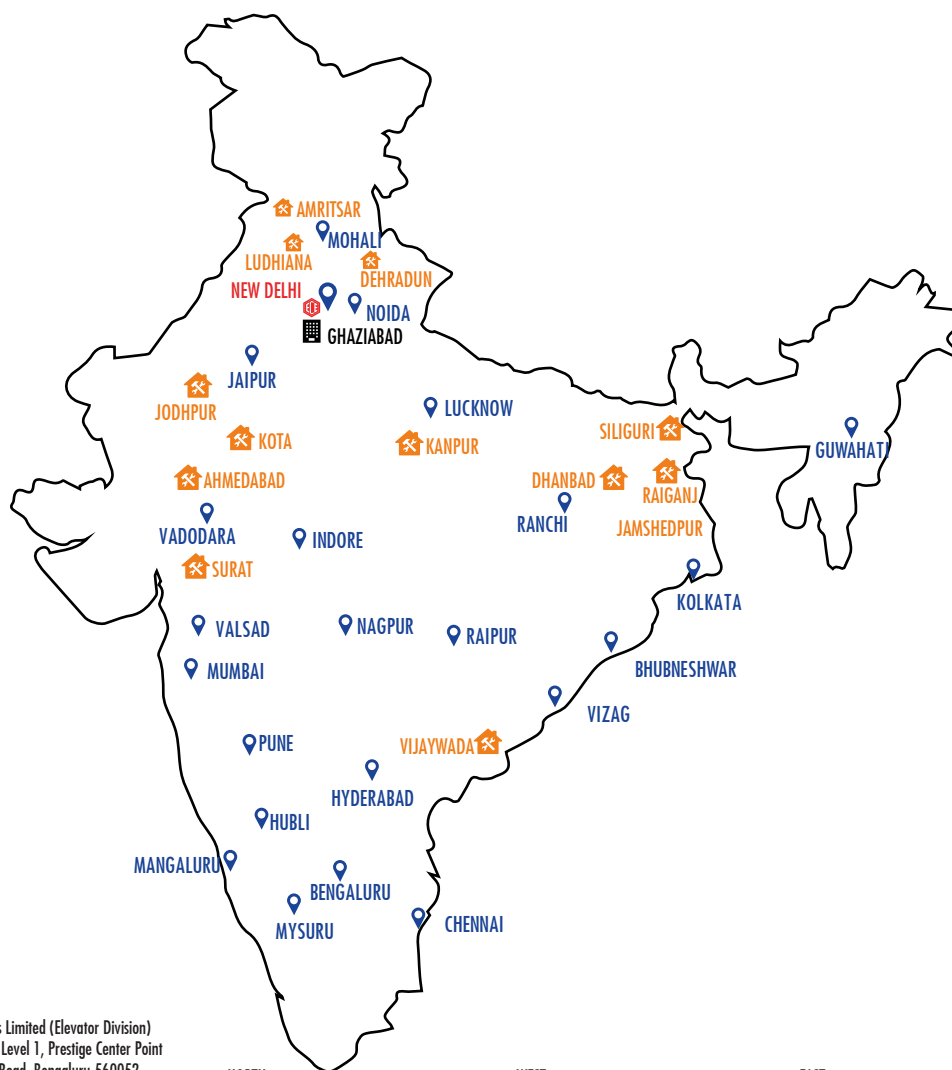
CUSTOMER'S GUIDE

Sr No.	Activity	References
1	Rigid bamboo scaffolding is required with horizontal members of min 3" in diameter & 800mm horizontal distance. Vertical members need 1mtr of overlapping with each other & 3 layer coir wires tie.	
2	Machine room ladder should have proper railing with footing steps. Necessary anti rust painting should be done to protect against rain water & atmospheric condition.	
3	Machine room main switch should be as per required rating & with suitable independent earthing.	
4	Provide Machine room window with rain protection shade to protect machine room equipment from rain water entering in machine room.	
5	Trap door with two fold opening & with zebra painting for lifting machine from top floor landing to machine room. A hoisting hook is required at machine room ceiling in the centre of trap door.	
6	A Smoke window with weather protection of size 300 mm X 300 mm is required to release fire smoke into atmosphere in case fire is in lift duct/hoistway. Suitable grill or mesh is required so that no one drops any object nor bird can enter in the hoistway.	

Sr No.	Activity	References
7	Lintel should be of 350 mm height & depth is as per thickness of wall (preferably 230 mm.) Length of lintel is depending upon opening /hoistway width.	
8	Bulkhead fitting in hoist way should be with cover & 4" away from corner of hoist way.	
9	Machine room rope cutout to be reduced as per required ropes & water protection is required up to 50 mm above floor level.	
10	Machine beam cutout required in machine room wall as per given dimension.	
11	Architrave, landing operating panel (LOP) & fireman box grouted as per dimension shown in GAD. LOP panel need to be mounted after finishing of dado work.	
12	Suitable hoistway beam is required as specified in the GAD.	



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NETWORK

- REGISTERED OFFICE
- PLANT
- BRANCH OFFICE
- RESIDENT ENGINEERS



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ANDHRA PRADESH
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» Jodhpur » Kota
» Dehradun » Kanpur

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Navi Mumbai-400614
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