

Welcome to Evaan Elevators Pvt. Ltd.

India's Most Trusted Name in Vertical Transportation

About Us

Evaan Elevators Pvt. Ltd. is India's leading and one of the most trusted brands for seamless vertical transportation. We have been ardently extending first-class elevator manufacturing, installation, maintenance, modernization, commissioning, and repairing services since the year 1993.

With more than 350 projects delivered across India, our team of qualified engineers incessantly strive to achieve new standards by adopting the latest technology, investing in R&D, and ensuring complete customer satisfaction right from the initial stages of the project to post-project delivery.

Having worked closely with multiple central and state government undertakings as well as eminent private entities, we consistently adhere to quality and safety standards. We have an extensive portfolio of all kinds of elevators, ranging from the passenger, freight, and hospital lifts to gearless traction & scenic elevators to name a few. These lifts are consciously designed and customized according to the client's needs and preferences.

Our Vision

“We aim to utilize technology to the core, modernize communities by sustainable means & elevate the customer experience across the nation.”



Why Us?



Reliability

Spearheading in vertical transportation technology since 1993, Evaan packs 25+ years of experience in the field.



Safety

We design our elevators keeping safety as its guiding piece. To reduce the chances of a mishap we conduct monthly inspections; all issues reported are solved with utmost urgency to avoid prolonged disruptions.



Modernization

When we talk about modernizing your lift we intend to deliver an end product that feels as good as a new lift.



Environment-Friendly

We have cut down our power consumption by using gearless machines, encoders, and integrated drives, which will not only harm the environment a lot less but also considerably slash your electric bills.

Why Us?



Multi-State Network

Evaan has its experts stationed at multiple locations across India- Delhi, U.P. Rajasthan, Madhya Pradesh, Punjab Dehradun & Uttarakhand to name a few.



After-Sale Services

All our lifts come with an all-inclusive one-year warranty, which encompasses all components and are subject to repair as well as replacement if found faulty during the warranty period.

Key Personnel

**Mr. V P Sharma,
Director**

comes with a profound experience of more than 40 years in the elevator industry. With a comprehensive electrical engineering background.

**Mr. Bhupendra Singh
Dhapola,
Director**

is fueled by experimentation & distinct application of knowledge since the early years of his career. He holds more than 30 years of experience in the vertical transportation industry. Working with some of the top elevator brands worldwide.

Sectors we cater to

Residential

We bring comfort right to your abode. In the fast-moving world where everything is available with a click of a button, there is nothing more precious than time. Our residential lifts are designed to save people's golden hours by ensuring fast, safe, and responsive vertical transportation.



Workspace

Workspaces are dynamic and need design and planning to suit people's needs. At Evaan Elevators, our vertical mobility solutions for office spaces cater to all scales. We take the utmost care in ensuring people continue to enjoy a relaxed and safe ride during rush hours.



Sectors we cater to

Hospital

For Hospitals, you need elevators that are extremely swift, reliable, and functional round the clock. With medical staff on their toes 24*7, we consider it our responsibility to make sure the lifts make the hospital operations easier and provide the needed comfort and safety to the patients, staff as well as visitors.

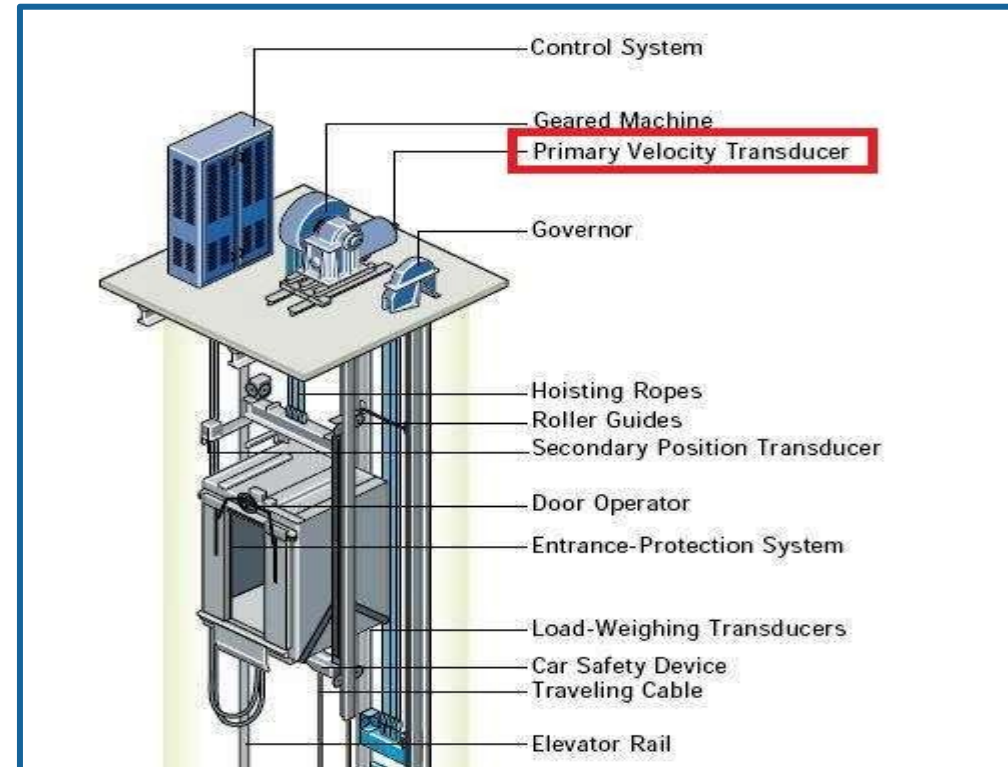
Shopping Complex

Ambience can light up the customer's mood in a jiffy. At Evaan Elevators, our aim is to maximize customer retention and perception by providing elite designer elevators. We are fully equipped with contemporary design needs to create a unique and attractive atmosphere for the riders.



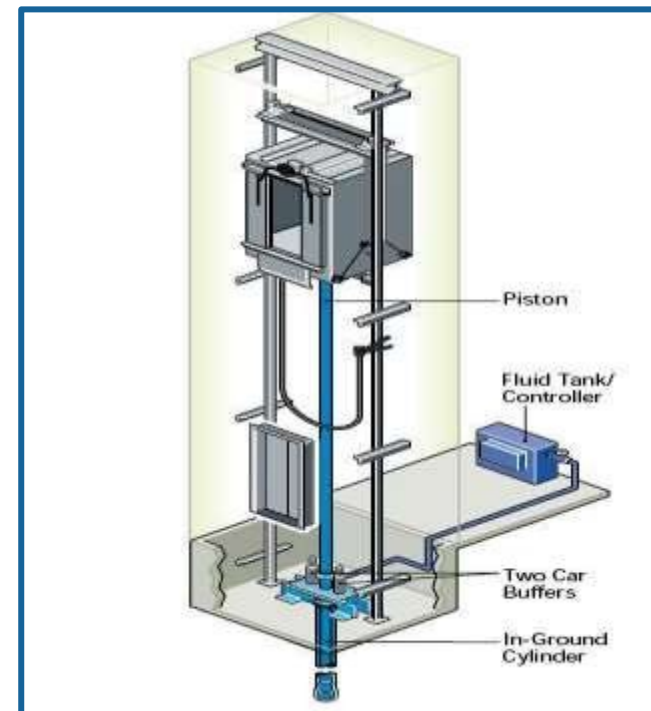
Types of Lifts (On the basis of function)

Electric Lift- It is an electro-mechanical enabled gearless traction technology which helps people travel to higher buildings.



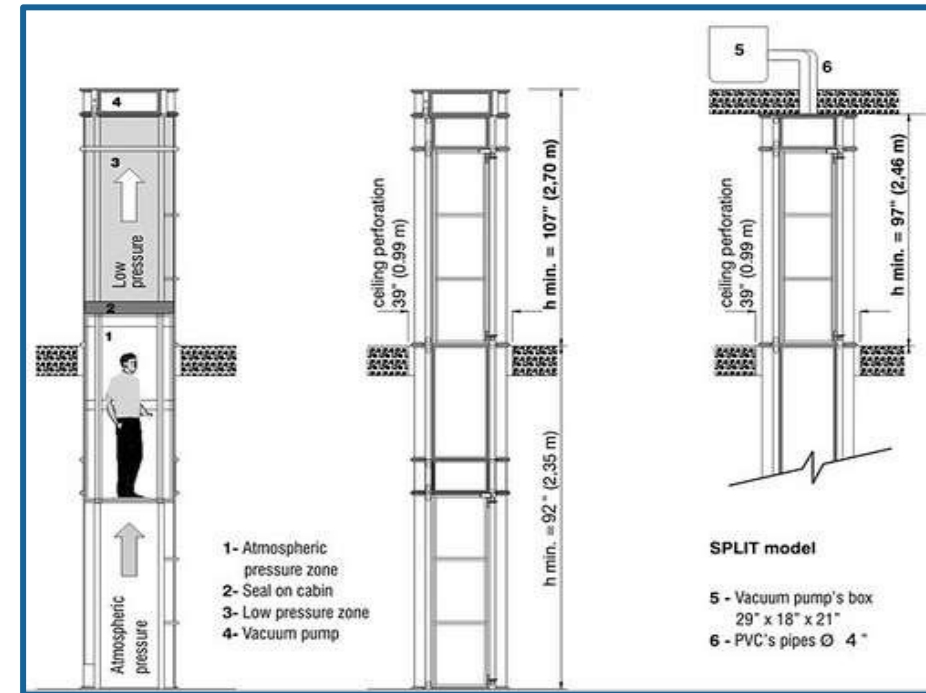
Types of Lifts (On the basis of function)

Hydraulic Lift-These are powered by piston that travels inside a cylinder. An electric motor pumps hydraulic oil into the cylinder to move the piston. The piston smoothly lifts the elevator cab.



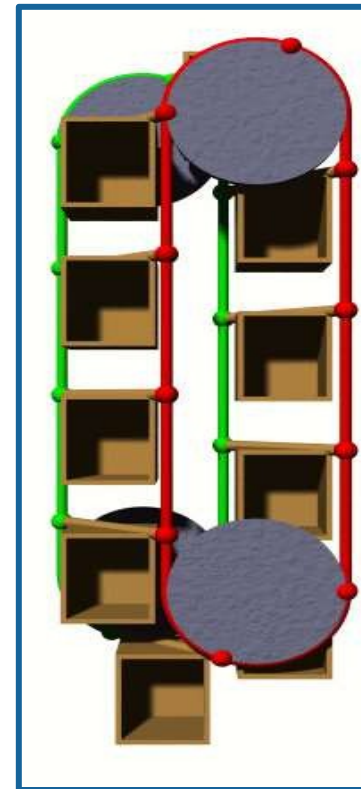
Types of Lifts (On the basis of function)

Pneumatic Lift- The principle operation of the lift is based on the ascending push generated by difference in the atmospheric pressure on the top of car and under the car. The vacuum required is achieved by turbines operating as exhaust fans, located at the top of the elevator.



Types of Lifts (On the basis of function)

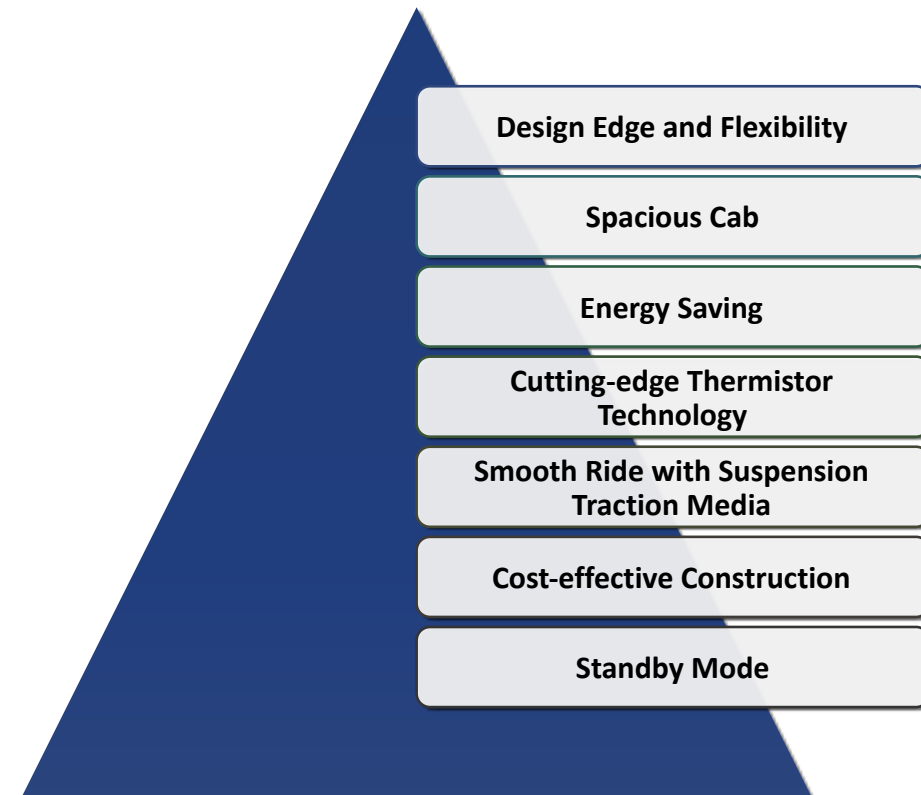
Paternoster Lift- It is a passenger elevator which consists of chain of open compartments that move slowly in a loop up and down inside a building without stopping. Passenger can step on or off at any floor they like.



Our Exclusive Range of Elevators

Machine Room-Less Lifts

Exclusively designed for the modern-day needs, our Machine Room-Less Elevators are a smart pick for people who are looking to save on the elevator equipment area and making most of the left-over space. Our MRL Elevators give an edge over the traditional ones and help you enhance your construction outline and also provide:



Our Exclusive Range of Elevators

Passenger Lifts

VIP Lifts

Capsule Lifts

Glass Lifts

Home Lifts

Traction Lifts

Machine Room Lifts

Dumb Weighters



Components of Lifts

- **Lift Car-** It is a vertically moving chamber in which the passenger or goods are transported. It is mainly constructed of steel or iron attached with steel frame. It is provided with door, floor panel indication, emergency button, phone, lightning and a set of emergency supplies.
- **Lift Door-** The utilization of centre opening door is recommended as they reduce the round trip time and help in improving the efficiency of lift.



Components of Lifts

- **Governor-** It is a mechanical device used to control the speed of lift on the basis of load in the lift chamber. It is usually placed at top of list shaft in a room equipped with electric motor, safety gear, etc.
- **Lift Shaft-** It is also called lift hoist. It is constructed with RCC to accommodate the loading and fire resistance. The size is decided on the basis of no. of users. It is the pathway of the lift.



Components of Lifts

- **Counterweight-** It is connected with the elevator car's rope to support the load carried by generator. Its main function is to grip the lift car and reduce the power of the generator.
- **Buffer-** It is a group of springs placed in vertical direction to absorb the impact of lift car when it falls. It is placed in lift pit.



Spring Buffer



Oil Buffer

Factors to consider while selecting your elevator



Utility

The function must be identified whether the lift is for residential, commercial, or hospital etc.



Capacity

The capacity depends upon the type of building and frequency of accessing the lift

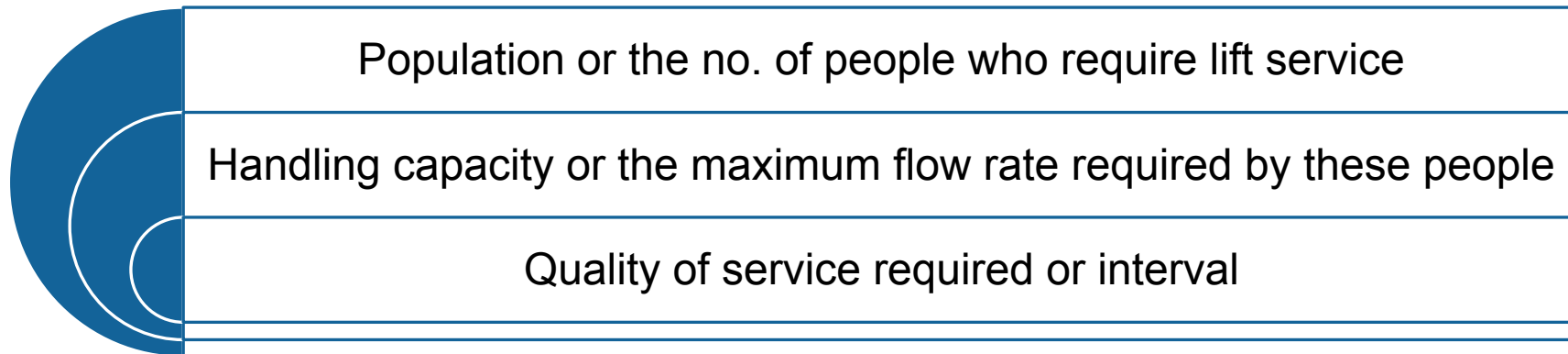


Speed

Speed depends upon the number of stops and passengers

Lift Designs

There are 3 major factors which contribute to lift designs mainly:



Population

- Exact population calculations are rarely available so the calculation of this factor is made on the basis of type of building, no. of floors and net area available.
- Average population density can vary from one person per (4-20) sq. metre. If no indication possible population of 5 sq. metre is generally assumed.



Quality of Service

- The quality of service is the measure of passenger handling capacity. It is measured in terms of total no. of passengers handled during each 5 min peak period of the day.
- NOTE- The passenger handling capacity should be approx. 10-15% of estimated population that has to be handled during peak time for office building, whereas 7.5% for residential building.
- It is measured by the passenger waiting time at various floors.

Quality of Service	Remarks
20-25 Seconds	Excellent
30-35 Seconds	Good
34-40 Seconds	Fair
45 Seconds	Poor
Over 45 Seconds	Unsatisfactory

Design Specifications of Lifts

- Capacity- The minimum size car recommended for single purpose buildings is suitable for a duty load of 884 kgs. For office buildings cars with capacities up to 2040 kgs are recommended as per the requirement.
- Speed- It depends upon quality and quantity of service desired. There are no set formulas. General Recommendations are listed in the table.

No. of Floors	Speed
4-5	1.0m/s
6-12	1.0-1.5m/s
13-20	Above 1.5m/s

Design Specifications of Lifts

- Layout- The width of the car is determined by the width of entrance gate and the depth of car is regulated by loading per sq. metre permissible. The centre opening doors are the most efficient for passenger lifts.
- Handling Capacity- It is calculated by formula- $H=300*Q*100/T*P$
- Where,
H= handling capacity as % of peak population, Q= average no. of persons carried in a car,
T=waiting interval, and
P=total population to be handled during peak period
P is calculated assuming population density and net area landing area available for use

Design Specifications of Lifts

- Q is taken as 80% of max. carrying capacity of car
- T is calculated as- $T = \text{RTT} / N$;
N= no. of Lifts, RTT= round trip time
RTT is taken as sum of-
Entry and exit of passenger on each floor
Door Opening and Closing time at each interval
Acceleration Periods, Stopping and Levelling Periods
Periods of full rated speeds between stops going up & down

Note- RTT is inversely proportional to Handling Capacity, so to decrease RTT entry and exit time of lift car should be adjusted. It has been found that the most suitable door width is 1000mm and the car width is 2000 mm. The utilization of centre opening doors favour the door opening and closing periods.

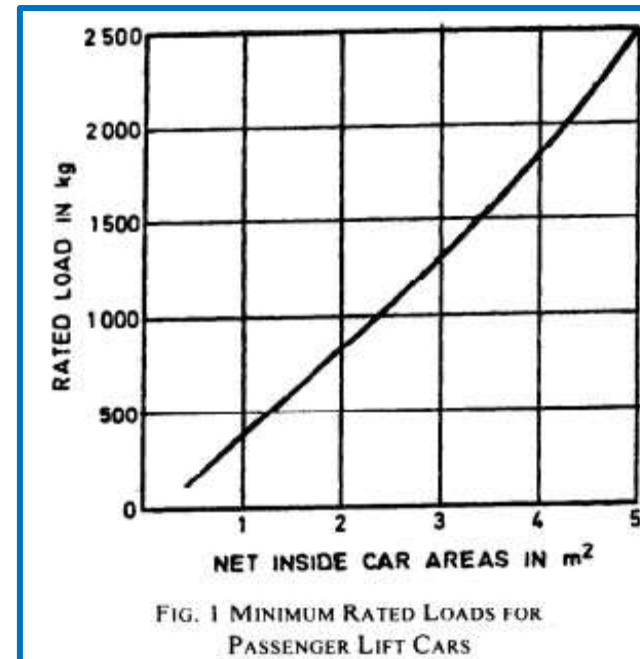
Dimensions

- Lift Car- As per IS14665(part3) the net inside areas for loads can be calculated from-

$$W=35.05A^2+325.66A,$$

Where W= rated load in kg, A=Net Inside Area.

The factor of safety for any part of lift shall not be less than 5. Higher factor of safety in various parts may be applicable on recommendation.



Dimensions

- Machine Room, Pit depth and overhead distances for passenger lifts, goods lifts, hospital lifts, service lifts are provided in the Table 1-4 in IS14665(part1) for different loads.

Table 1A Recommended Dimensions of Pit, Overhead and Machine-Room for Passenger Lifts
(Clauses 5.3 and 6.1)

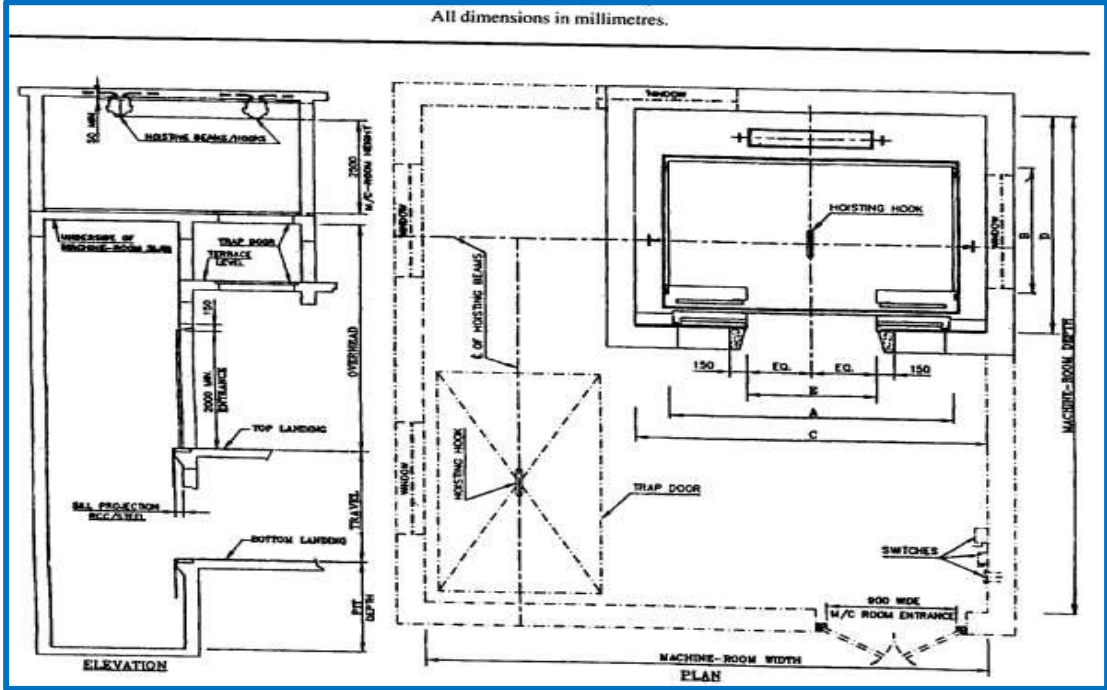
All dimensions in millimetres.

Speed in m/s	Up to 0.70	>0.70≤ 1.00	>1.00≤ 1.50	>1.50≤ 1.75	>1.75≤ 2.00	>2.00≤ 2.50
Pit depth	1 350	1 500	1 600	2 150	2 200	2 500
Overhead	4 200	4 250	4 800	4 800	5 200	5 400
Machine-room Depth	D + 2 000			D + 2 500		
Machine-room Width	C + 1 000		C + 1 200		C + 1 500	

NOTES

- The total overhead dimension has been calculated on the basis of car height of 2.3 m.
- In case of manually operated doors, clear entrance will be reduced by the amount of projection of handle on the landing door.
- All dimensions given above for lifts having centre opening power operated doors with counterweight at rear, are recommended dimensions primarily for architects and building planners. Any variations mutually agreed between manufacturer and purchaser are permitted. However, variation in :
 - Car inside dimensions shall be within the maximum area limits specified in 5 of IS14665 (Part 3/Sec 1).
 - Entrance width on higher side is permitted.
 - Entrance width on lower side is permitted up to 100 mm subject to minimum of 700 mm.
- Dimensions of pit depth and overhead may differ in practice as per individual manufacturer's design depending upon load, speed and drive. Recommended dimensions for pit depth, overhead and machine-room for different lift speeds are given in Table 1A. However, the pit depth and overhead shall be such as to conform to the requirements of bottom clearance and top clearance as per 4.5 of the IS 14665 (Part 2/Sec 1).

Dimensions



Load		Car Side		Lift Well		Entrance
Persons (1)	kg (2)	A (3)	B (4)	C (5)	D (6)	E (7)
4	272	1 100	700	1 900	1 300	700 (Min)
6	408	1 100	1 000	1 900	1 700	700 (Min)
8	544	1 300	1 100	1 900	1 900	800
10	680	1 300	1 350	1 900	2 100	800
13	884	2 000	1 100	2 500	1 900	900
16	1 088	2 000	1 300	2 500	2 100	1 000
20	1 360	2 000	1 500	2 500	2 400	1 000

Modernization

Revamping your old elevators with our cutting-edge design solutions

With technology evolving at the tick of the clock, it is important to keep yourself updated. Aging lifts need care and attention to ensure the safety of the passengers. At Evaan Elevators, we master in providing reliable and eco-friendly modernization solutions with the latest design aesthetics. From providing a full replacement to modular modernization and component up-gradation, we customize our service portfolio according to the needs of our valued patrons.



Maintenance

Get assistance from our team of qualified personnel

We at Evaan Elevators go all-out to deliver first-rate maintenance services. With our revolutionary technology and highly trained technicians, our customers can sit back and relax while we ensure their vertical mobility is safe, secured, and smooth throughout the year. For us, the degree of our service quality is highly guided by the minimized numbers of call-backs and inconveniences caused to the passengers using our elevators.



We put life into your elevators with the finest designs

Door Options

The movement of doors play a major role in the aesthetics of an elevator. We provide a variety of door options like imperforated, swing door with manual selection, center opening power-operated doors, and two-speed sliding doors with automatic options. We have special door options for freight elevators with a maximum opening like vertically biparting doors, vertically up sliding doors, all designed to ensure a seamless user experience.



We put life into your elevators with the finest designs

Car Designs

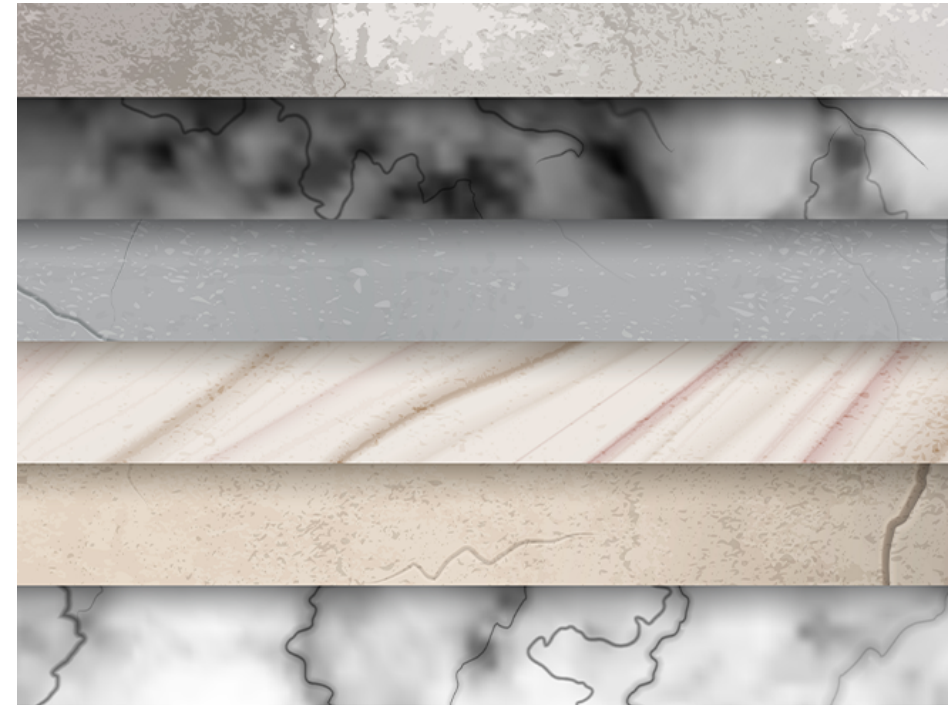
A captivating car design can elevate user experience by manifolds. Our Car designs come in a choice of M.S Car body dully spray-painted with a shade of your choice. You can also go for a Stainless-steel car body decked with hairline, mirror, honeycomb or moonrock finish.



We put life into your elevators with the finest designs

Tiles

Flooring adds to the finesse of the elevator. We believe in providing solutions that are packaged with the best design aesthetics to our customers. We provide top-quality granite or PVC anti-skating tiles options that are available in a huge colour palette to suit the building's architecture.



We put life into your elevators with the finest designs

Digital Indications

At Evaan Elevators, we strive to bring forth the newest technology and constant innovation in our products and services. We offer an exclusive selection of digital indications to choose from - scrolling, seven segments, voice announcements, touch system and serial communication are a few of them.



Escalators

- **Parallel Type-** These are escalators which are constructed side by side or with some distance between them. These are commonly found at metro stations.
- **Multi-Parallel Type-** These refer to two or more escalators constructed of the same nature in parallel.
- **Criss-Cross Type-** These are escalators which are constructed keeping the same nature of escalators on one side.

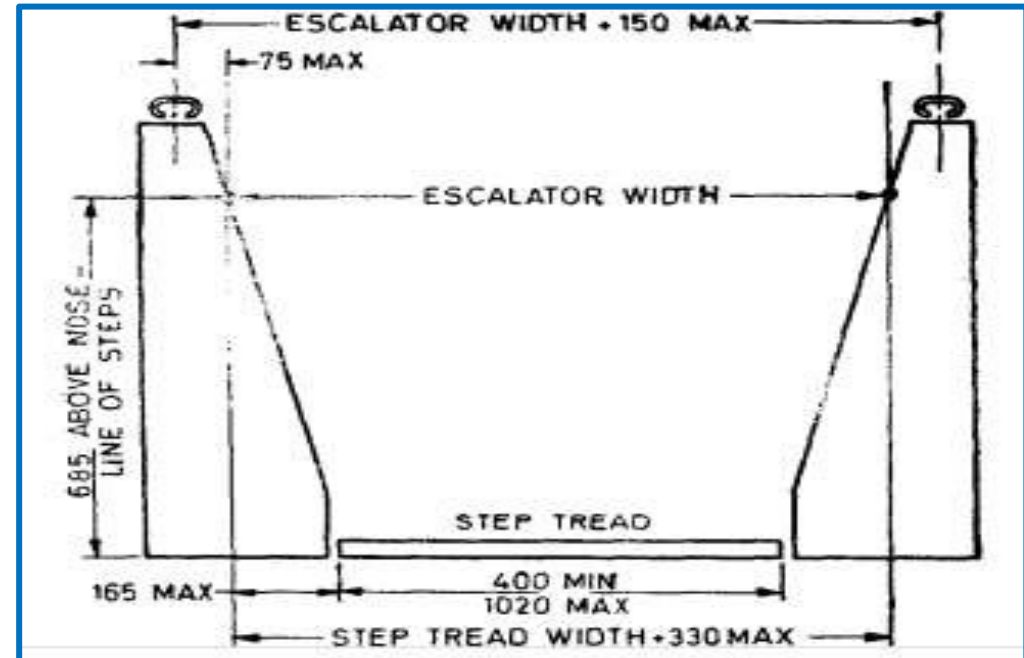


Escalators – Design Requirement

- **Angle of Inclination-** It shall not be >30 degree from horizontal for vertical transportation up to 6m. Permitted up to 35 degree in extreme case.
- **Balustrade-** Escalators shall be provided on each side with solid balustrades. Glass balustrading can be used considering IS2553:1964. The width between balustrades shall be measured on the incline at a point 68.5cm vertically above the nose of steps and shall not be less than width of step. It shall not be more than 33cm with 16.5cm on each side. There should be no abrupt change in the width on the other side.

Escalators – Design Requirement

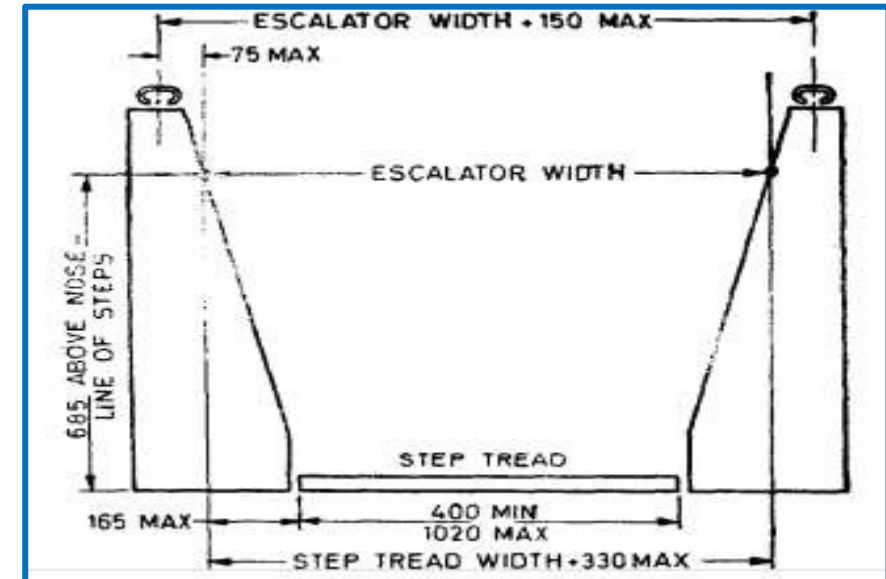
- **Handrails-** Each balustrade should be provided with a handrail moving in the same direction at same speed as that of the steps. These handrails should be extended beyond combplate and the height at the normal should not be less than 30 cm. The distance between the handrails should not exceed the distance between balustrade by more than 15 cm, provided 7.5 cm on both the sides.



Escalators – Design Requirement

- o **Treads/Steps-** The depth of any step tread in the direction of travel shall not be less than 40cm and the rise should not be more than 22 cm. The width should not be less than 40 cm and not more than 102 cm.

Maximum clearance between the steps should be 4 mm. Each tread step should be slotted and slotting should not be more than 6.5mm wide and 9.5 mm deep. The distance between adjoining slotting should not be more than 9.5mm.



Escalators – Design Requirement

- **Landings-** Landings of RCC concrete may be provided conforming to secure foothold. No clear specifications are provided so design should be done taking care of rated load.
- **Combplates-** There should be combplate at entrance and exit of every escalator. These should be meshed up with tread surface and should be adjustable.



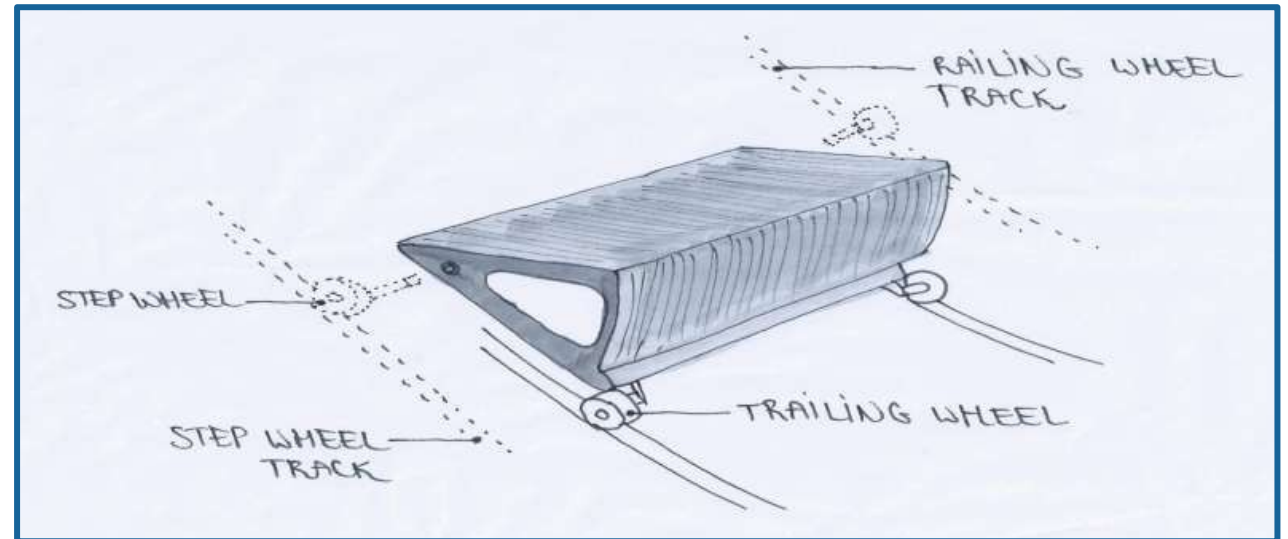
Escalators – Design Requirement

- **Trusses/ Girders-** Truss is hollow metal structure that bridges the lower and upper landings. Its ends are attached to upper and lower landings. It is composed of two sections joined together with cross braces across the bottom and just below the top.



Escalators – Design Requirement

- o **Tracks System-** This is embedded inside the truss and these are connected by chain or belt. There are two tracks which move relatively such that a stair comes out at combplate called as step-wheel track and trailer-wheel track. It is mainly provided to prevent the displacement of steps if the chain breaks.



Benefits of Escalators

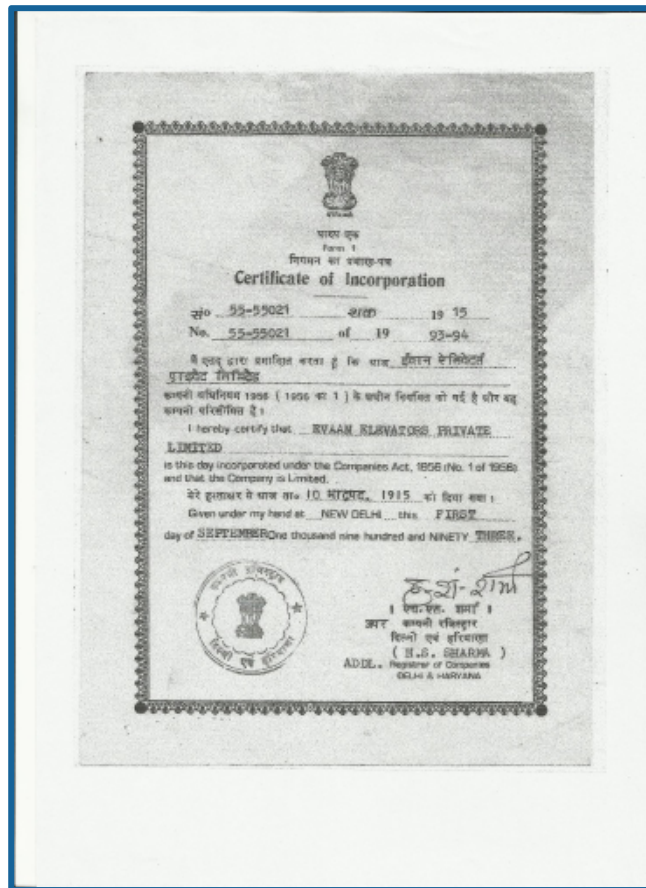


It has more loading capacity and allows large no. of people to move from one place to another at the same time.

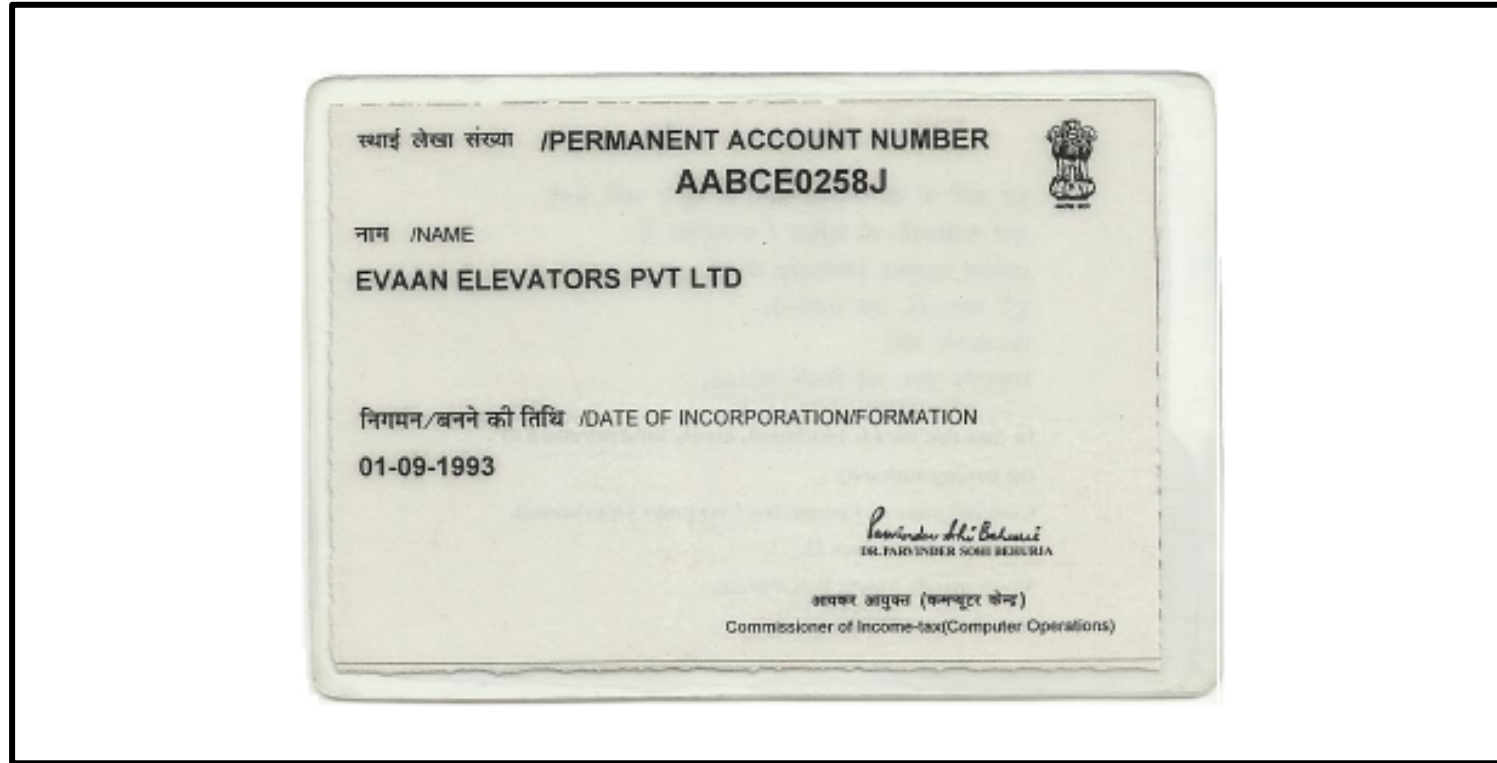
It is more efficient as people don't have to wait as in case of an elevator.

Its speed can be adjusted as per crowd management and can be turned off when not in use.

Certifications of Evaan Elevators Pvt. Ltd.



ID Proof



A Glimpse of our Clients



THANK YOU