

KALAVID 98242 21002 | KALAVID 98242 21002 | KALAVID 98242 21002 | KALAVID 98242 21002 | KALAVID 98242 21002

**TRUST**  
THE END  
**RESULT**

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SINCE 1995









## COMPANY ACHIEVEMENTS



## EXPRESS ACHIEVEMENT

For us, the achievement is beyond trophies, awards, and recognition. The real sense of achievement comes from the customer's satisfaction because we genuinely believe that their satisfaction can create the relation of affection between us.

WE  
EXPRESS

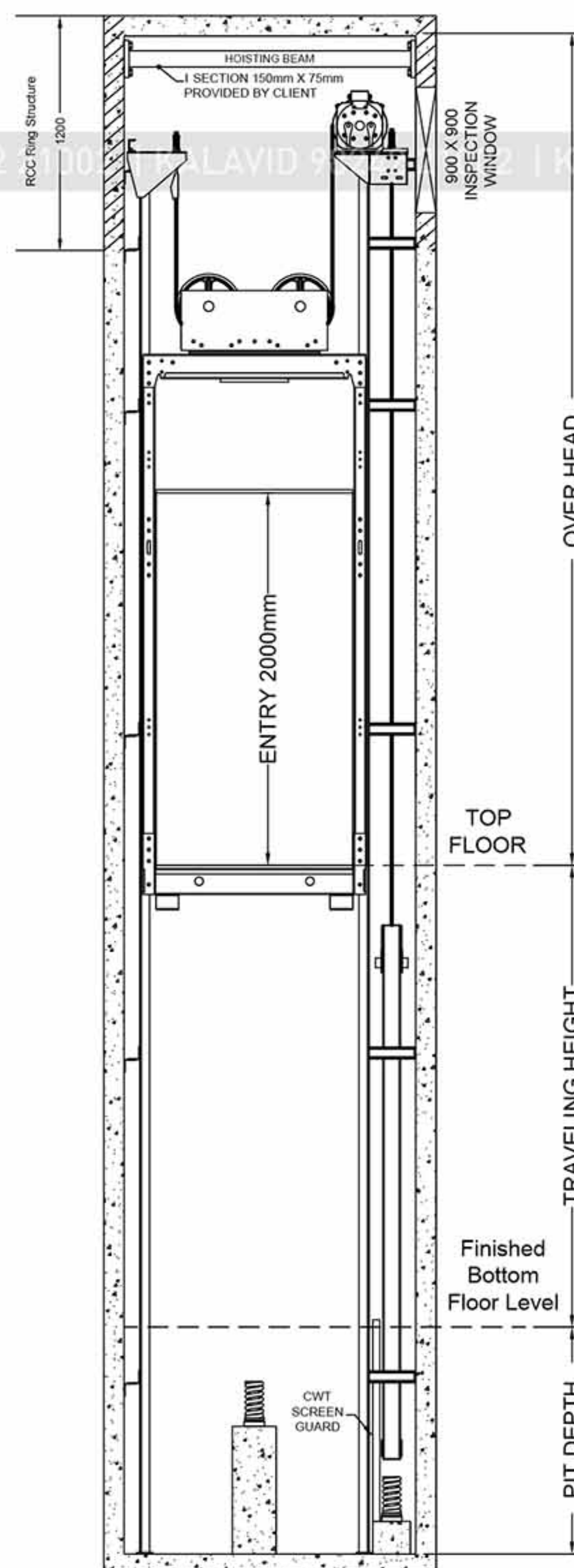




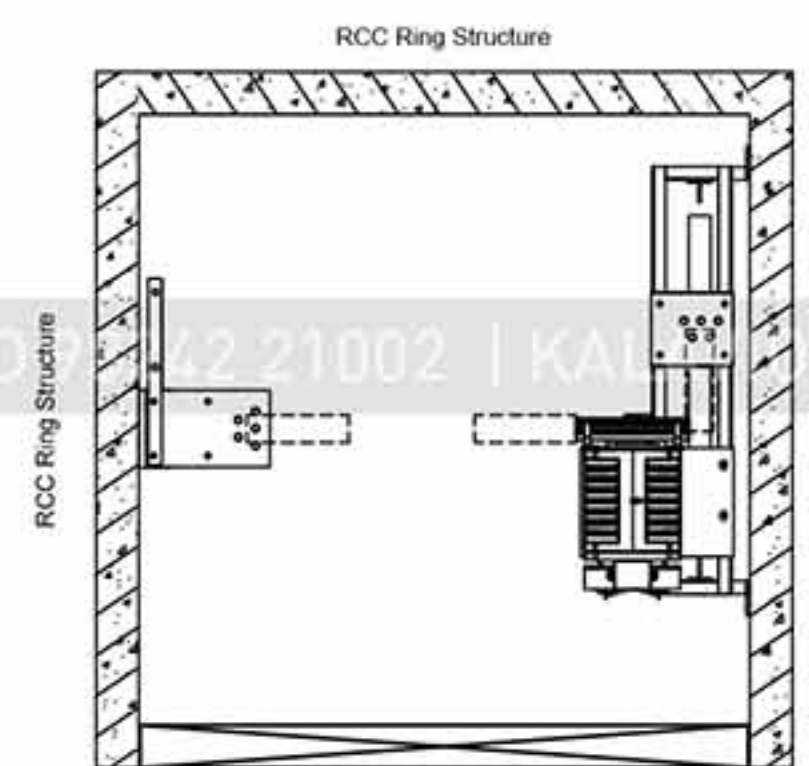




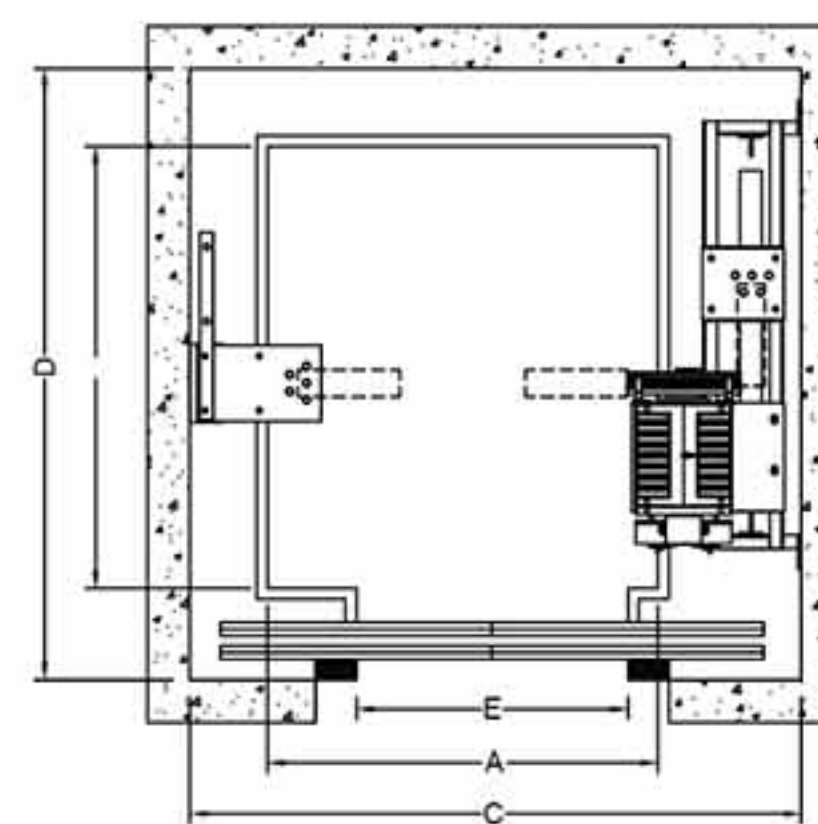




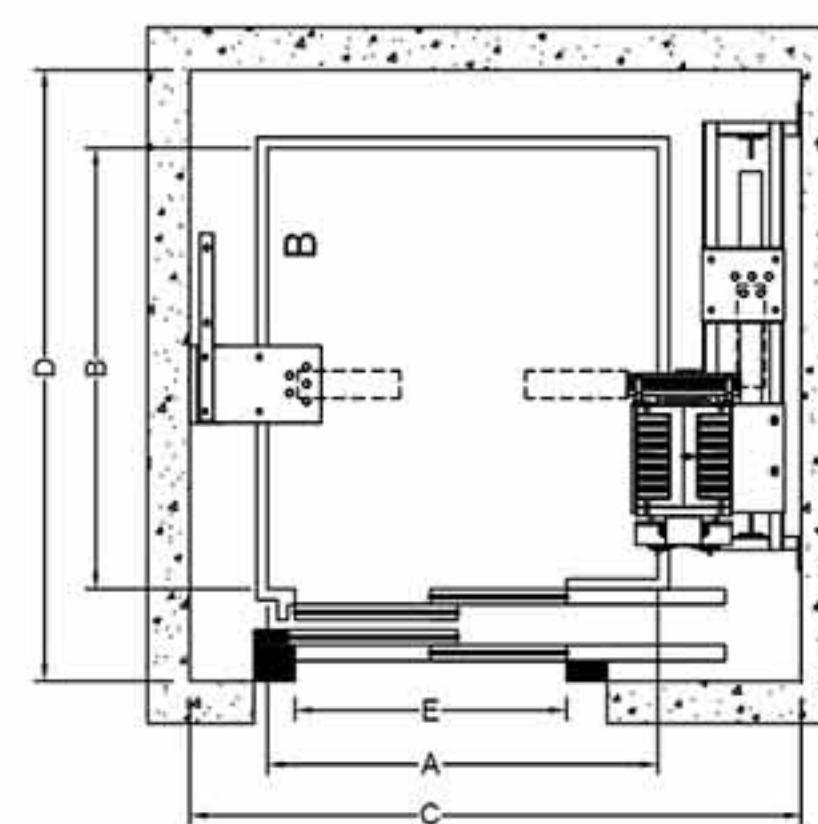
Hoistway Section View



Machine Room Plan



Hoistway Elevation & Plan For Center Opening Door



Hoistway Elevation & Plan For Telescopic Door (Side Opening)

# MRL ELEVATOR

This device of elevator helps in reducing the construction cost, so it's very much suitable for cost-effective projects. Along with this, it enhances the beauty of elevation.



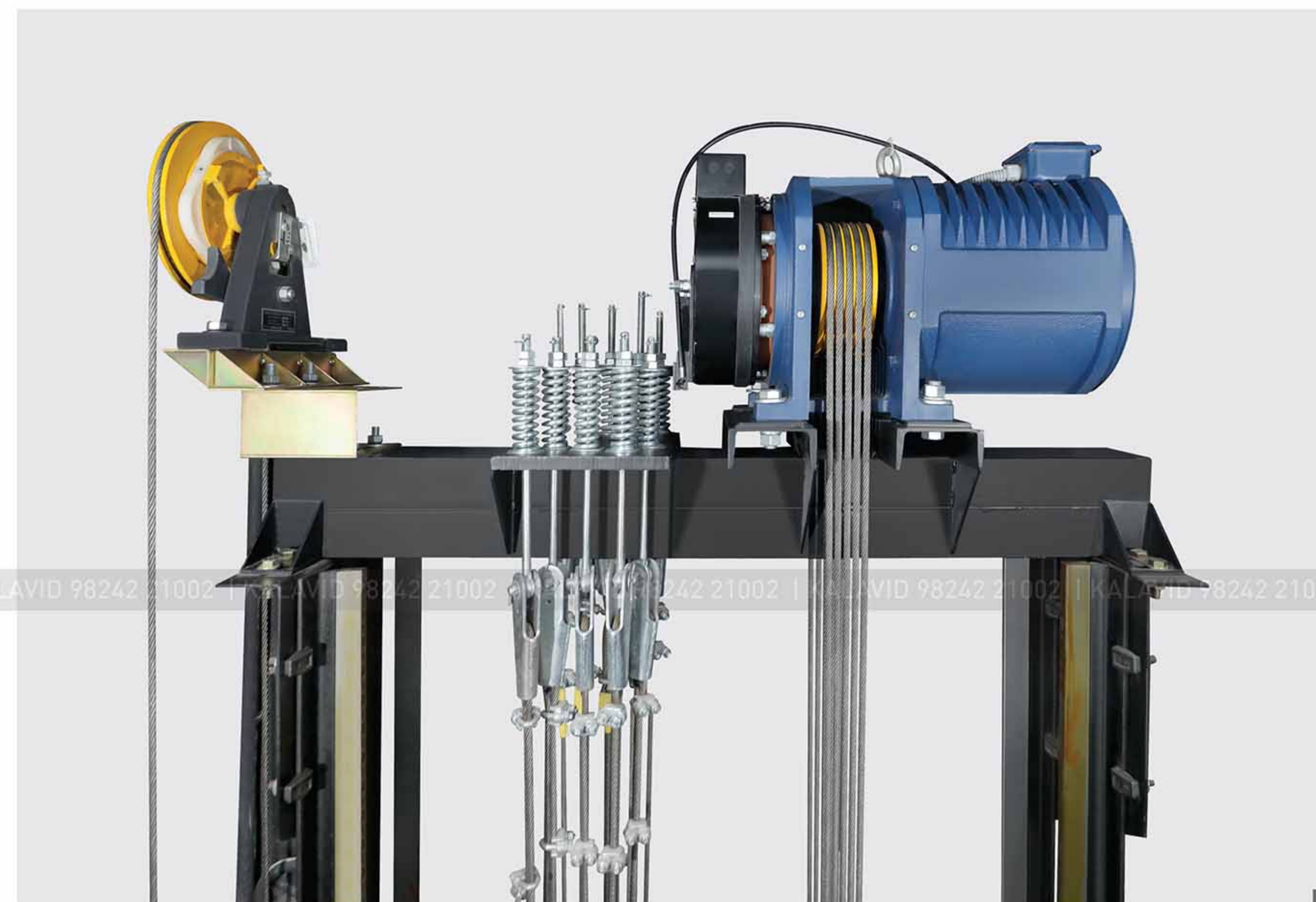
### Telescopic Opening - Gearless MRL (Side Counter Weight)

Load	Lift Well		Car Inside		Entrance	Over Head	Minimum Pit		
	In KG	Width	Depth	Width			Depth	Up to 1.5 m/sec	Up to 2.5 m/sec
Person	C	D	A	B	E				
5	340	1600	1500	900	1050	700 / 800	5400	1600	2600
6	408	1650	1600	950	1150	700 / 800	5400	1600	2600
8	544	1800	1800	1100	1300	800 / 900	5400	1600	2600
10	680	2000	1900	1300	1350	800 / 900	5400	1600	2600
13	884	1800	2500	1100	2000	800 / 900	5400	1600	2600
15	1020	1900	2650	1100	2200	900 / 1000	5400	1600	2600
16	1088	2000	2500	1300	2000	1000	5400	1600	2600
20	1360	2300	2900	1400	2400	1000 / 1200	5400	1600	2600

Note :- All dimensions are in MM size

#### Terms Of Table :-

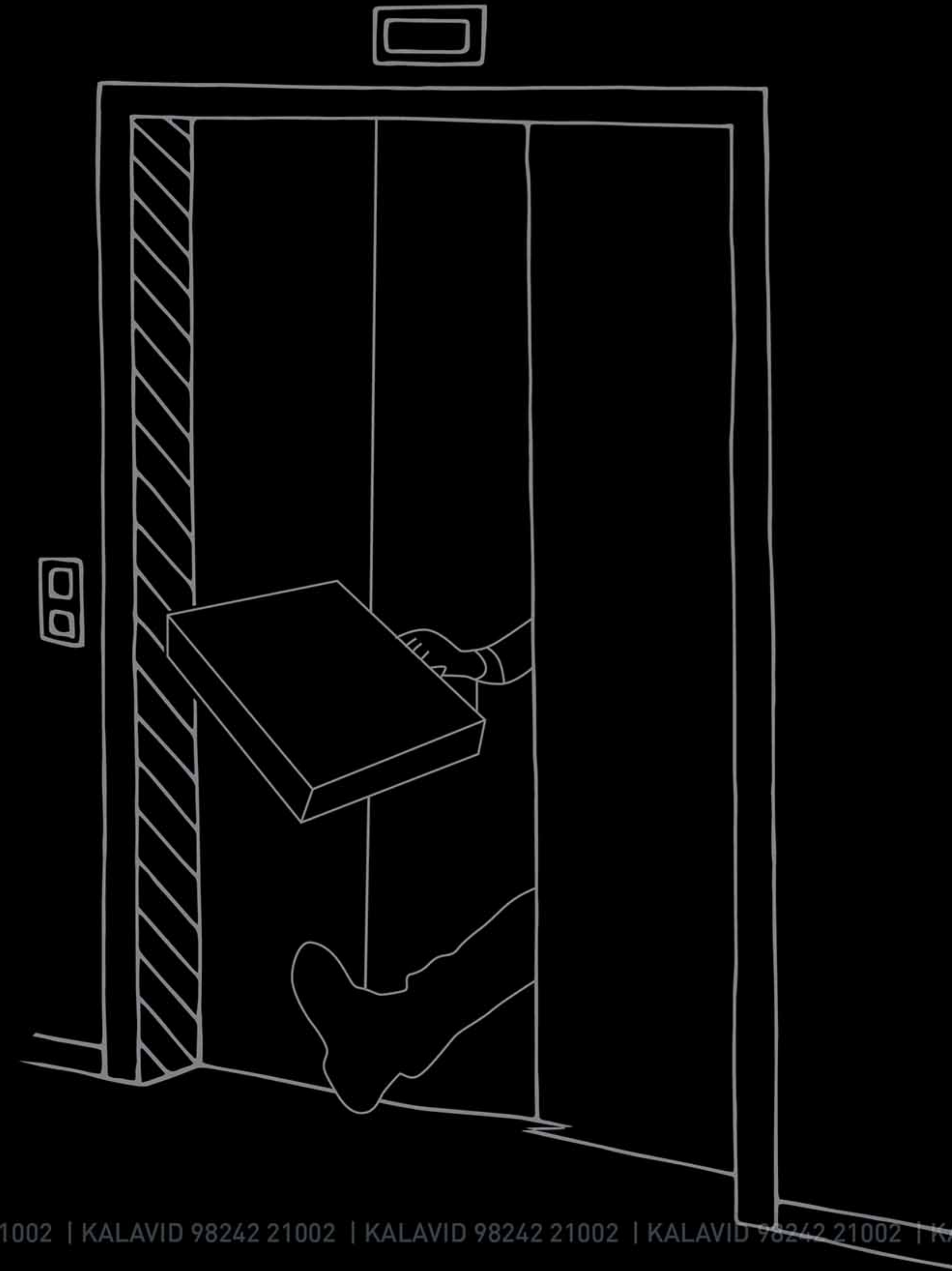
- The content of this table only apply to standard specification. Please consult us for other specifications.
- Rated capacity is calculated as 68 kg per person.
- Minimum hoistway dimensions (C & D) shown in the table are after waterproofing of the pit and do not include plumb tolerance.





## CARING CAREFULLY

Selling is profit but concerning for the customer is all about maintaining the relationship. So we would like to insist on not stepping the leg out to avoid the closure of the autodoor. Rather than stepping the leg out, you can press the button, as that action might carry you towards the unwanted accidental situation.







Center Opening - Gearless With Machine Room (Back Counter Weight)

Load	Lift Well		Car Inside		Entrance	Over Head	Minimum Pit		
	Person	In KG	Width	Depth			Width	Up to 1.5 m/sec	Up to 2.5 m/sec
5	340	C	D	A	B	E	4800	1600	2600
		1600	1500	1000	900	700			
6	408	1800	1500	1000	900	800	4800	1600	2600
		1600	1600	1100	1000	700			
8	544	1800	1800	1300	1100	800	4800	1600	2600
		1800	1600	1100	1000	800			
10	680	1900	1900	1350	1300	800	4800	1600	2600
		2000	2200	1350	1600	900			
15	1020	2200	2200	1600	1500	1000	4800	1600	2600
		2200	2200	1700	1600	1000			
20	1360	2300	2400	1800	1800	1000	4800	1600	2600

Note :- All dimensions are in MM size

Terms Of Table :-

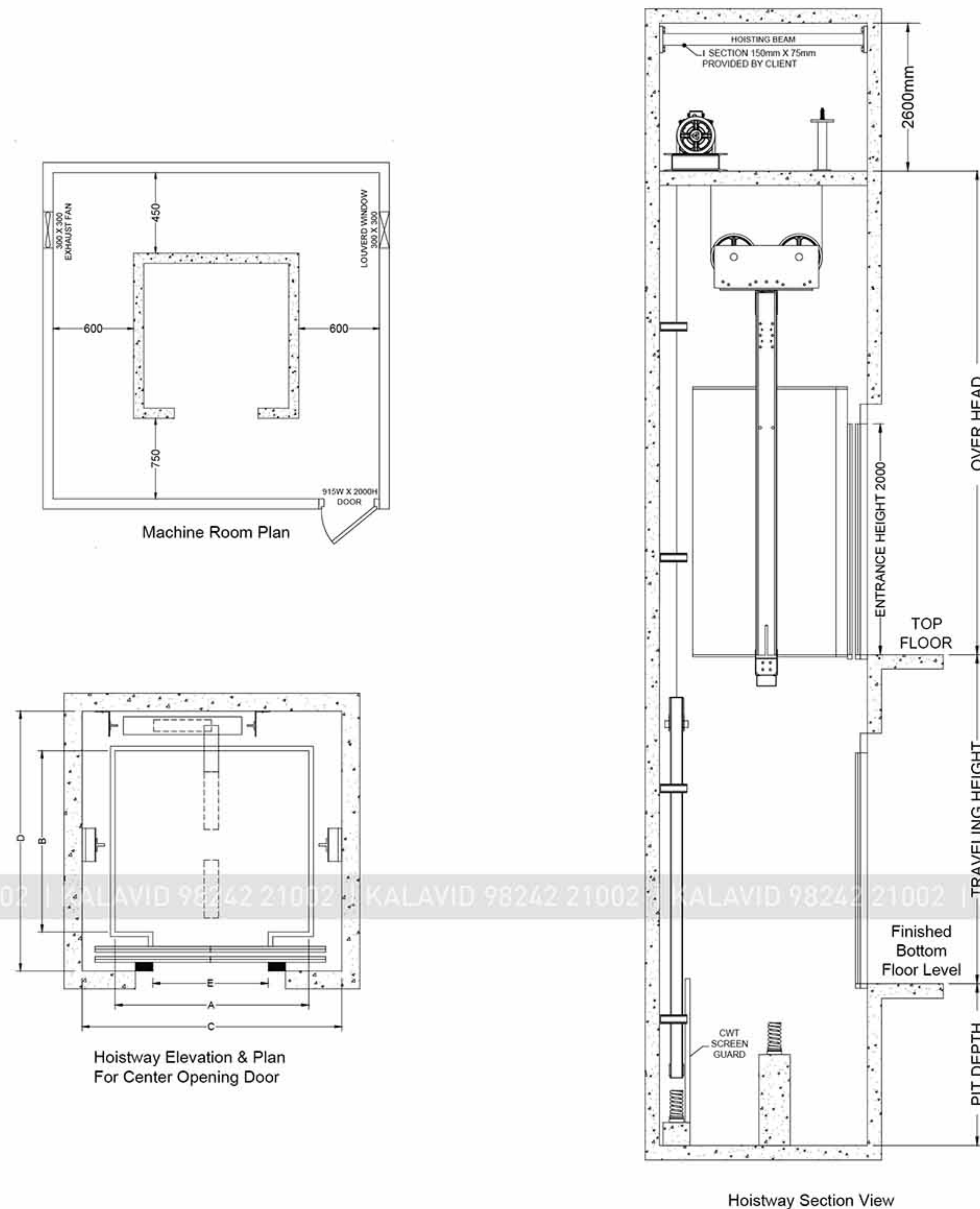
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# GEARLESS WITH MR

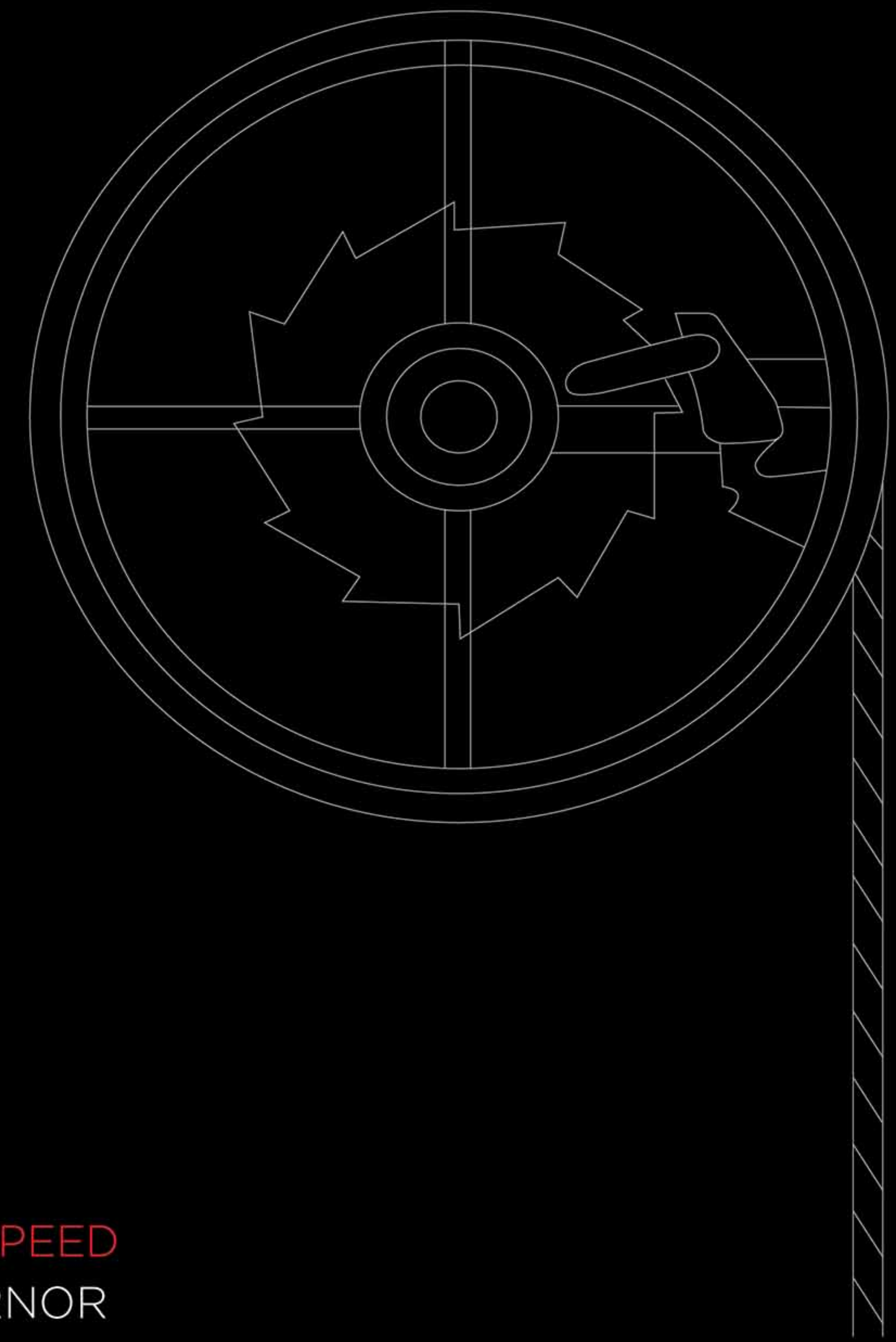
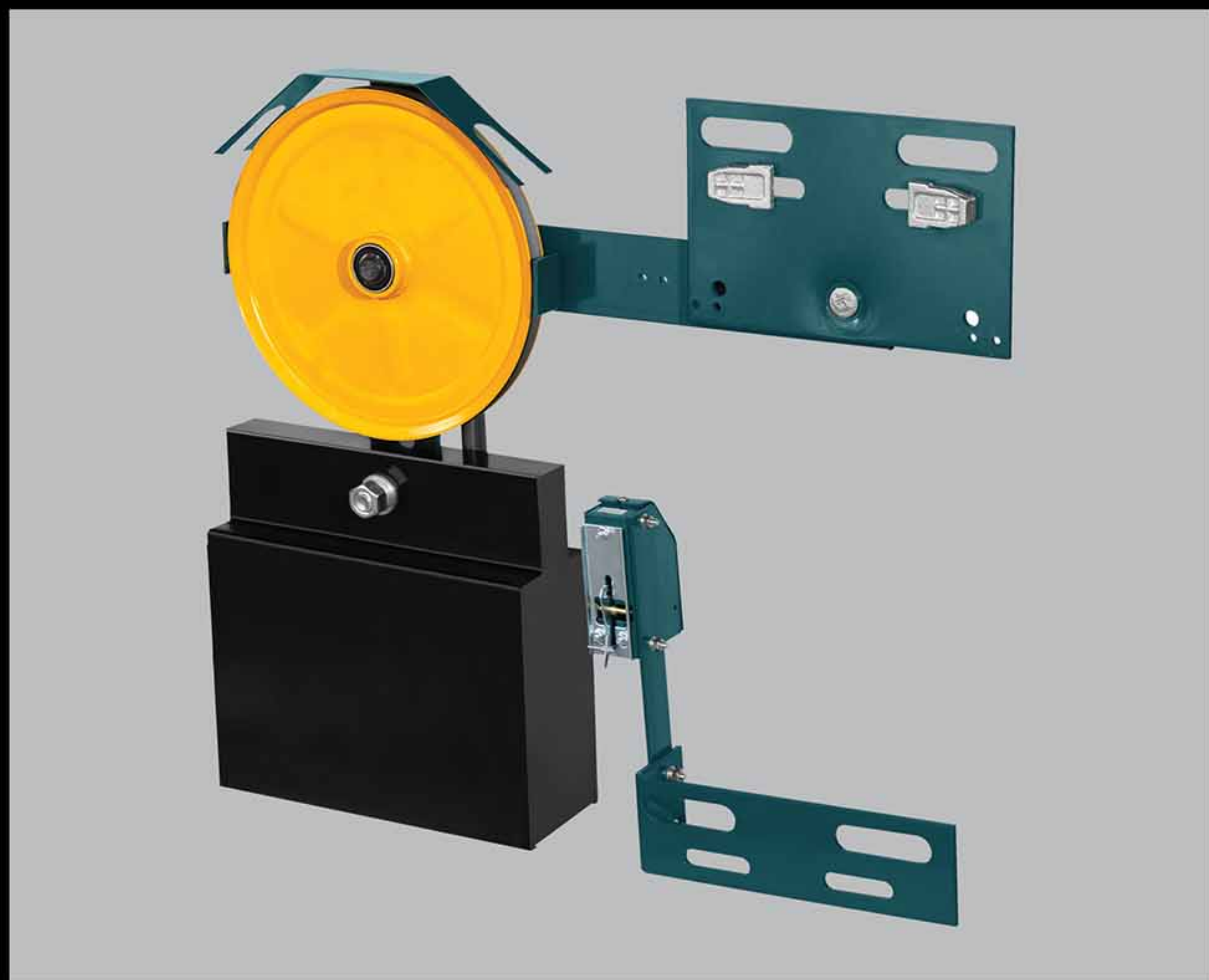
This gearless system lets the motion be more faultless. We can say that auto gear has brought a new decade in the world of cars, just as the gearless machine has brought a new decade in the world of elevators.

## ADVANTAGES

- ▶ ENERGY EFFICIENT
- ▶ MAINTENANCE FREE
- ▶ SAFE RIDE
- ▶ SMOOTH RIDE
- ▶ LESS NOISE
- ▶ COST EFFICIENT
- ▶ HIGH-RISE APPROPRIATE
- ▶ FUTURISTIC TECHNOLOGY
- ▶ MACHINE ROOMLESS
- ▶ COMPACT SIZE







## OVERSPEED GOVERNOR

Any motion can be dangerous when it exceeds the limit. The universe of the vehicle has brakes to restrict the speed. Similarly, the elevator's universe has governors to do so.

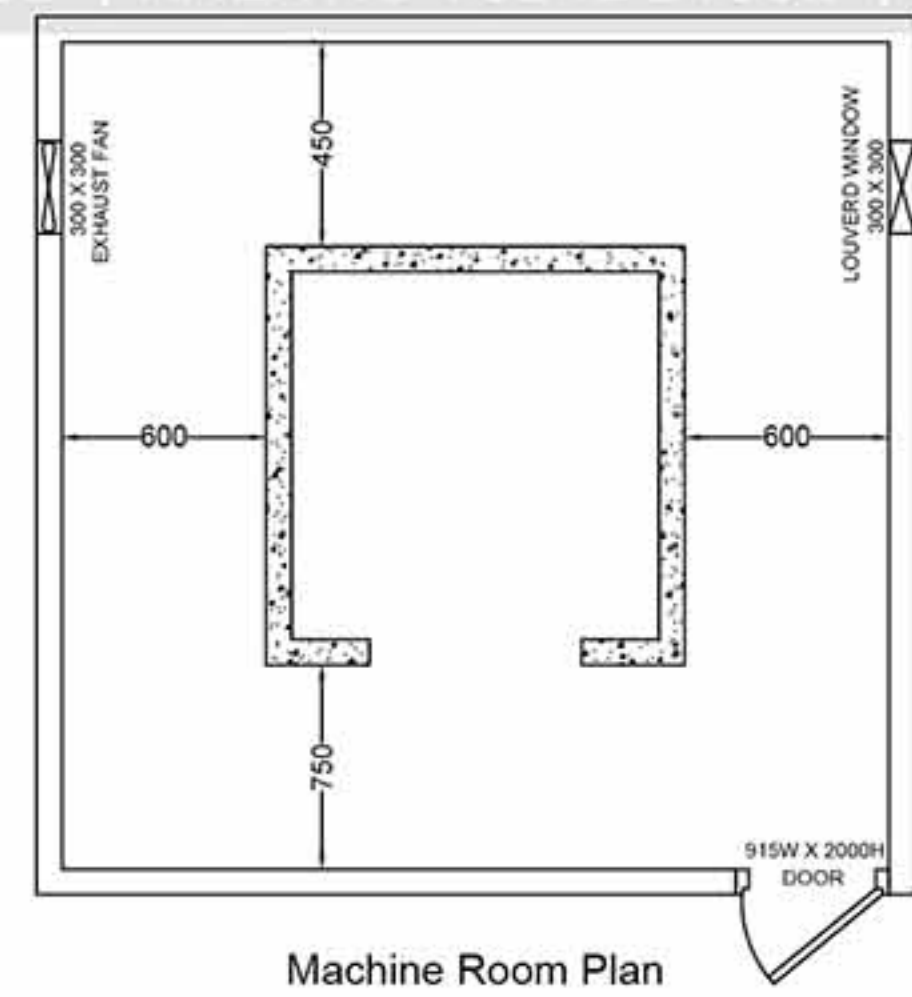
## ABOUT SAFETY

An overspeed governor is an elevator device which acts as a stopping mechanism in case the elevator runs beyond its rated speed this device must be installed in roped traction elevator.

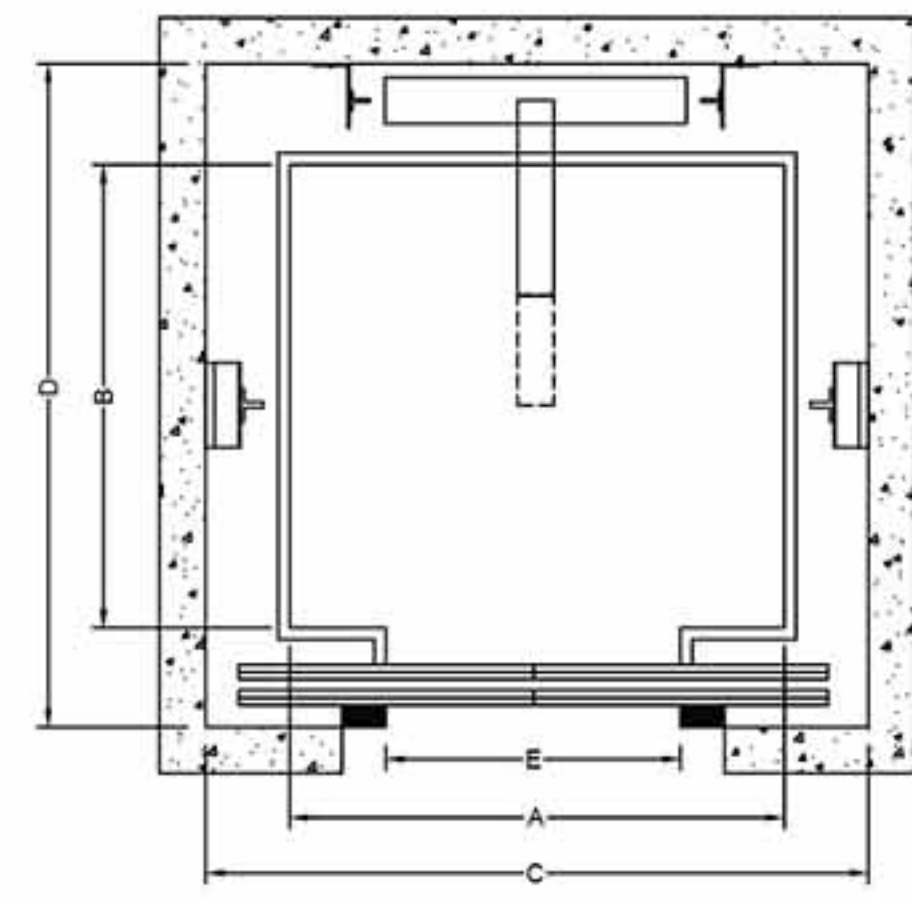


# GEARED MACHINE

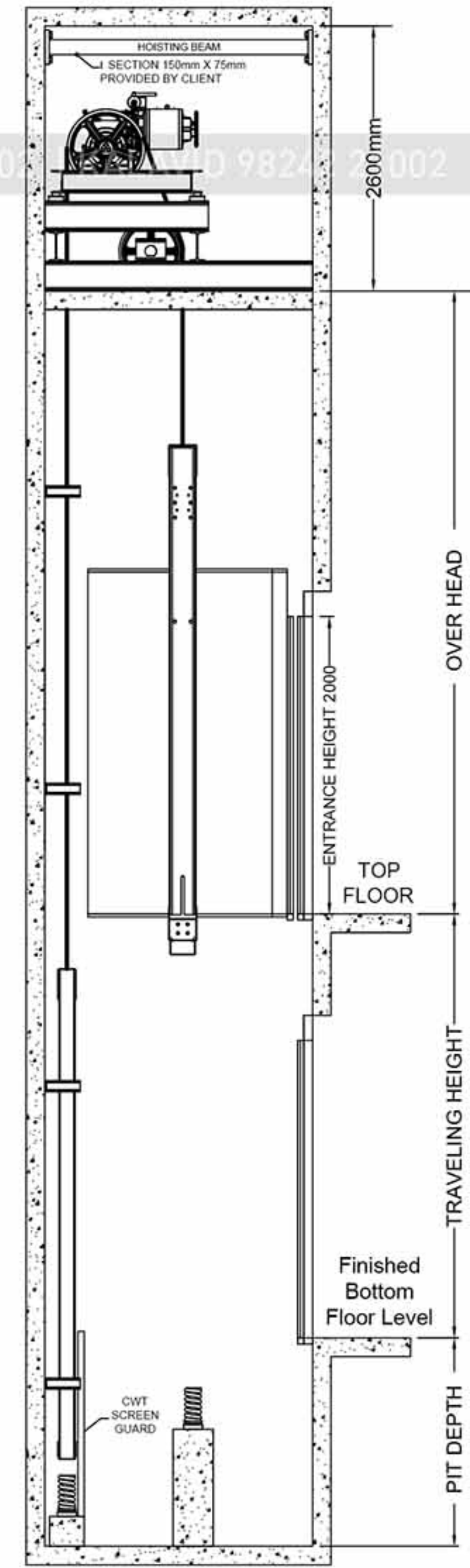
It's the most proven product due to its tremendous flexibility. All gear machines get designed at 180 - star horse power / hour at 40% duty cycle and 1.1 roping. The machine is categorized into three parts such as motor, gearbox and pulley. It's molecularly facilitates handling installation and is one of the most maintainable options.



Machine Room Plan



Hoistway Elevation & Plan For Center Opening Door



Hoistway Section View

### Center Opening - Geared With Machine Room (Back Counter Weight)

Person	Load In KG	Lift Well		Car Inside		Entrance Width E	Over Head	Minimum Pit	
		Width C	Depth D	Width A	Depth B			Up to 1.5 m/Sec	Up to 2.5 m/Sec
5	340	1600	1500	1000	900	700	4800	1600	2600
	340	1800	1500	1000	900	800			
6	408	1600	1600	1100	1000	700	4800	1600	2600
	408	1800	1600	1100	1000	800			
8	544	1800	1800	1300	1100	800	4800	1600	2600
	680	1900	1900	1350	1300	800			
10	680	1900	1900	1350	1300	800	4800	1600	2600
	884	2000	2200	1350	1600	900			
15	1020	2200	2200	1600	1500	1000	4800	1600	2600
	16	1088	2200	2200	1700	1600			
20	1360	2300	2400	1800	1800	1000	4800	1600	2600

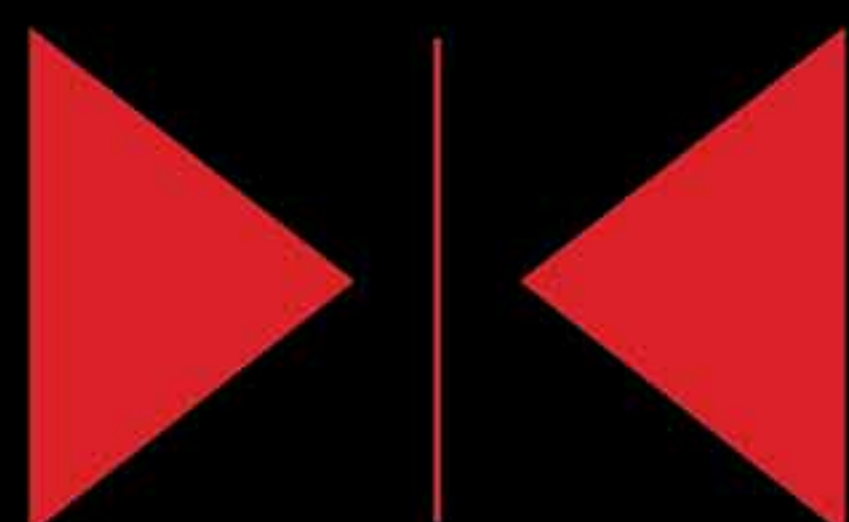
Note :- All dimensions are in MM size

#### Terms Of Table :-

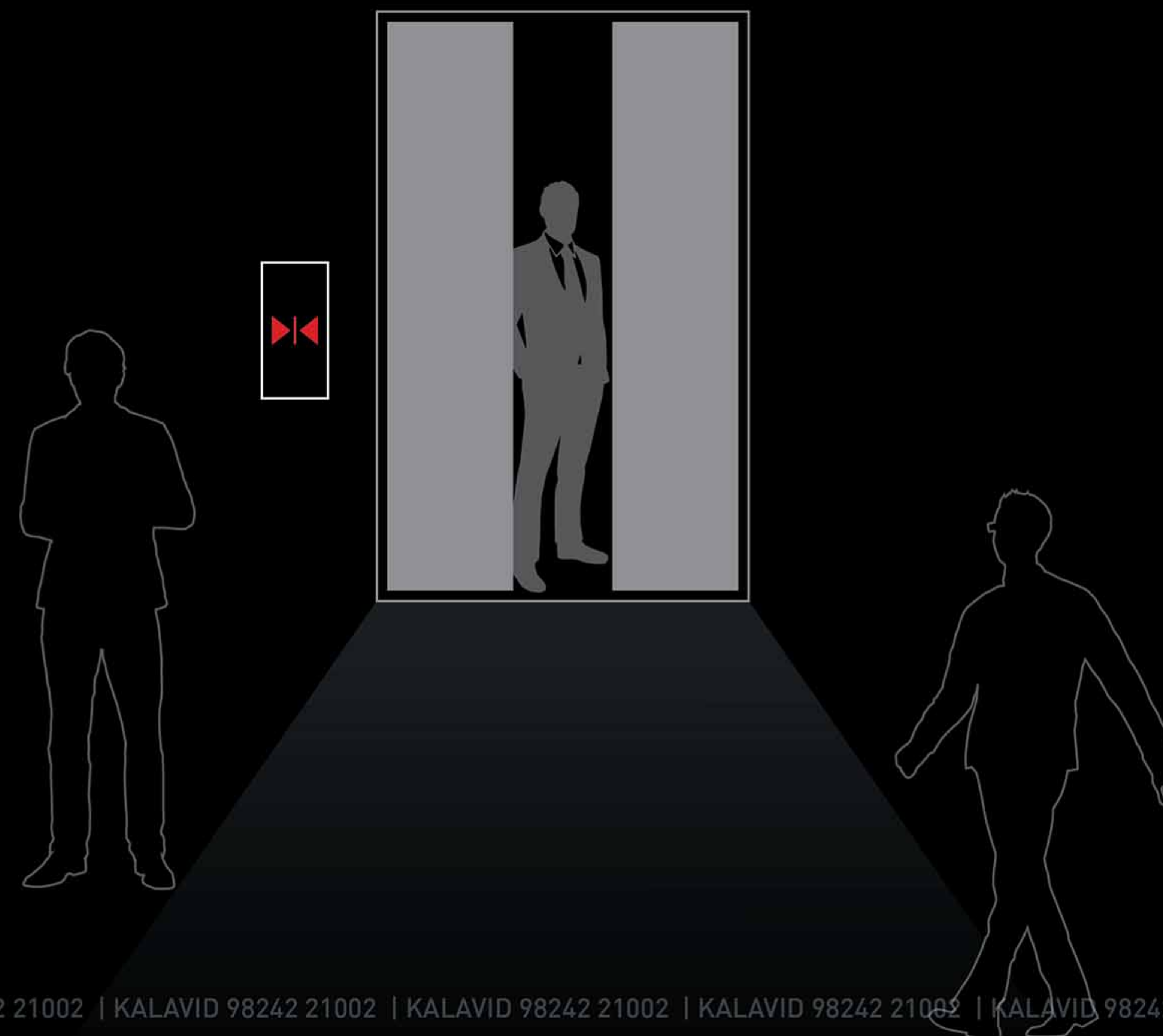
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## CLOSING UP THE DISCOMFORT



The primary effort of **Express Electro Elevators Co.** is that any of our customers should not face any discomfort while using our elevators. Whether it's the installation process or in the case of after sales service.

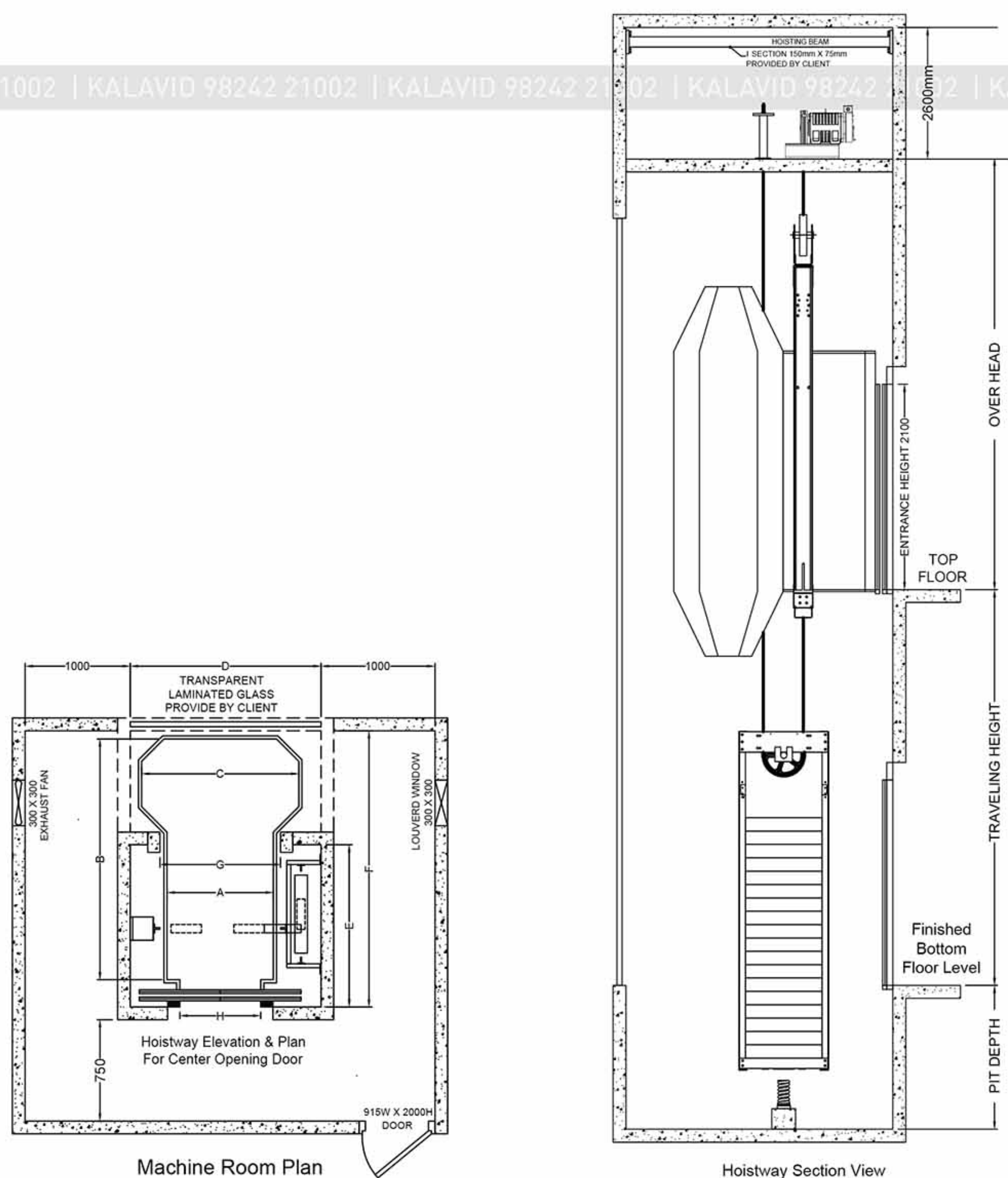




# CAPSULE ELEVATOR

In a word, this can be called a show - off elevator! As mostly it gets installed to enhance the elevation of the building. These elevators consist of large transparent glass panels which provide a panoramic view and can accommodate 10 to 20 passengers. Capsule elevator installation requires an immense amount of technical knowledge and a certain state of art.

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Penoramic Capsule Lift - Gearless With Machine Room (Side Counter Weight)

Load		Lift Well			Car Inside			Entrance	Wall Opening	Over Head	Minimum Pit
Person	In KG	D	E	F	A	B	C	H	G		Up To 1 m/sec
10	680	2250	1050	2400	900	1900	1200	800	1350	4800	1600
13	884	2450	1050	2500	900	2000	1400	800	1350	4800	1600
16	1088	2450	1250	3000	1000	2500	1400	900	1450	4800	1600
20	1360	2550	1500	3400	1200	2900	1800	900	1650	4800	1600

Note :- All dimensions are in MM size

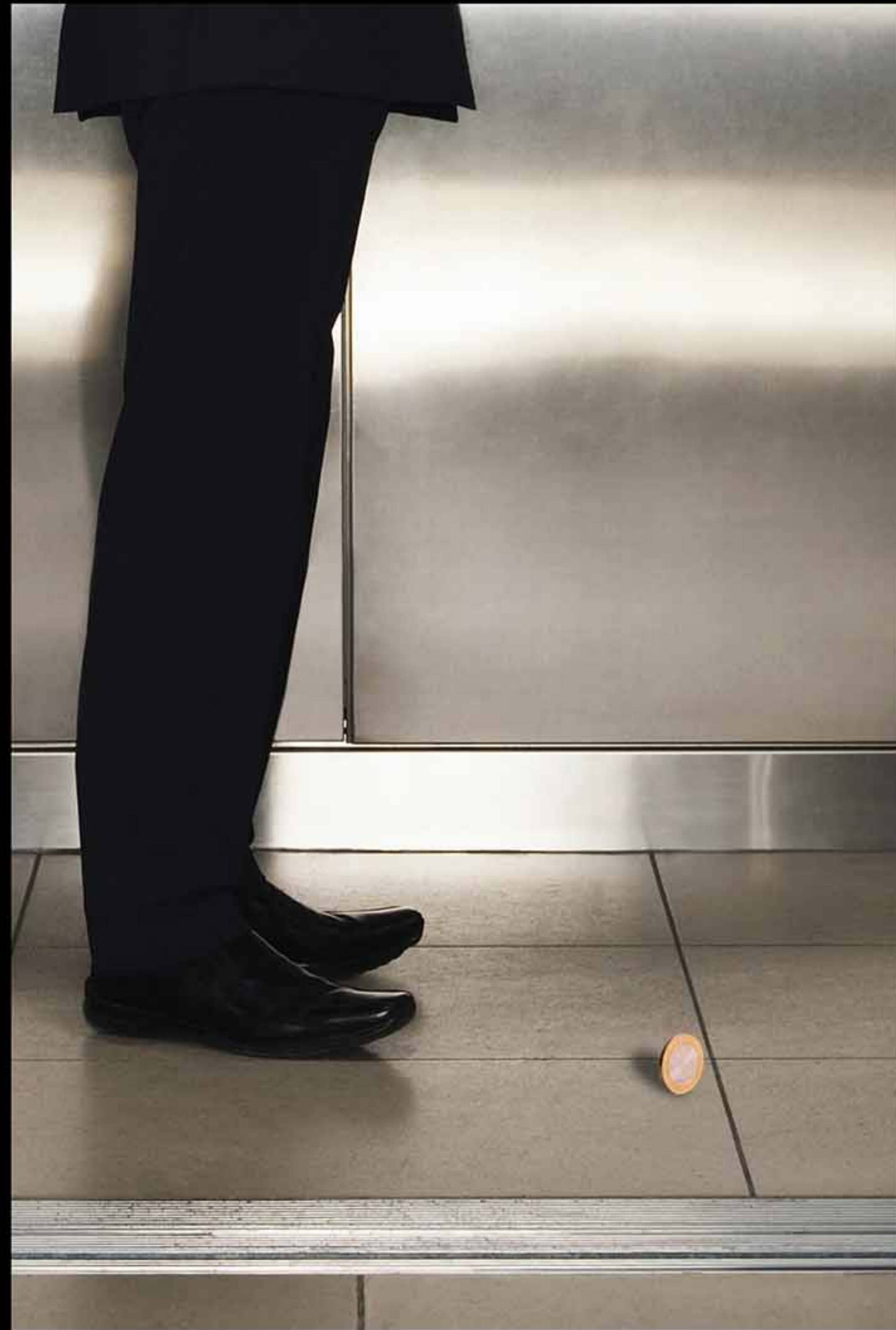
Terms Of Table :-

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## COIN TESTING

Speed and stability - these are opposites of each other but **Express Electro Elevators Co.** is carrying them together. **Elevators of Express Electro Elevators Co.** though being so fast, move so firmly that the coin standing on the surface of the Elevator does not move at all. This shows how accurately **Express Electro Elevators Co.** are designed that one can go up & down without any hindrance.



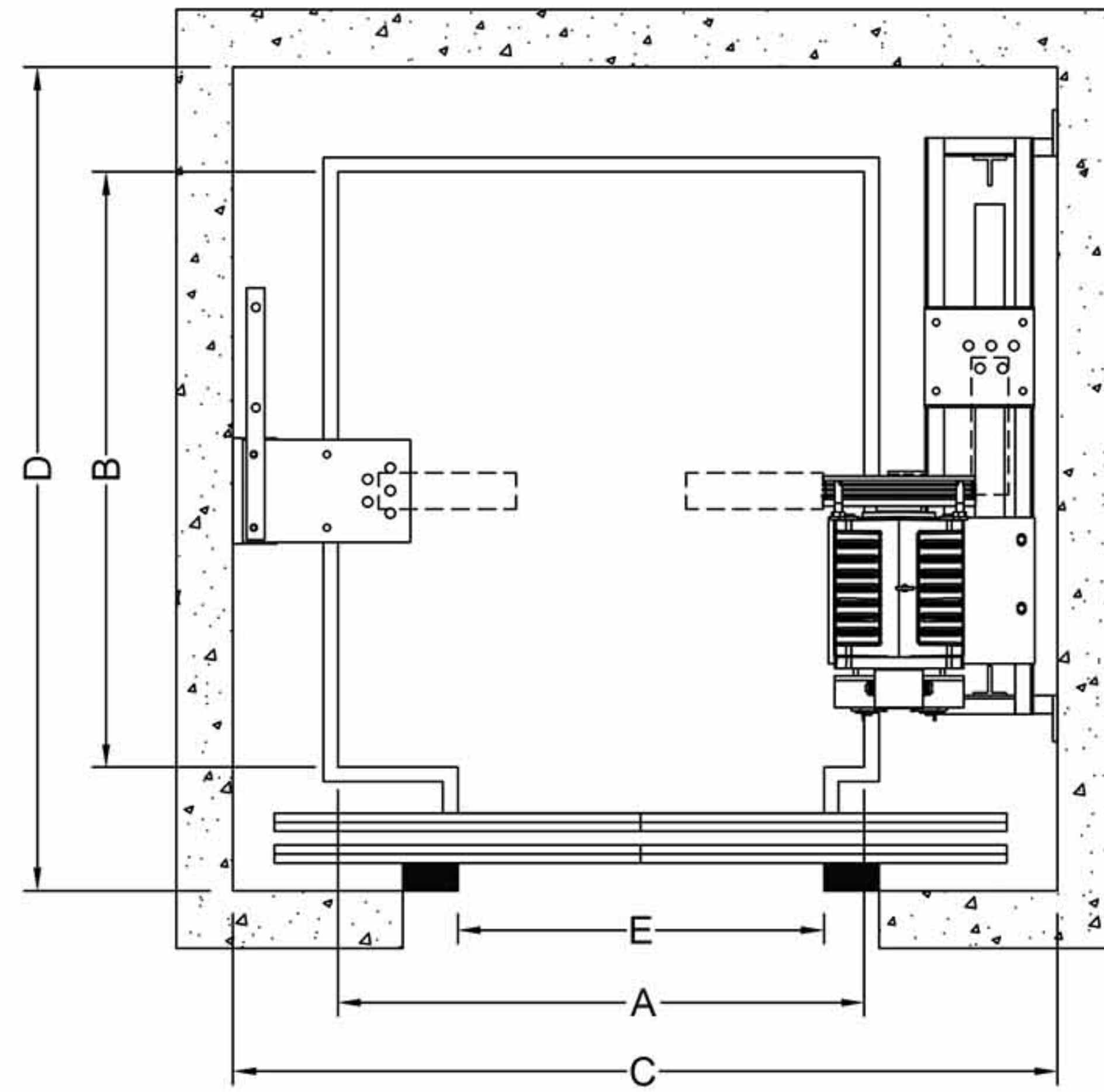


## LUXURY LIFT

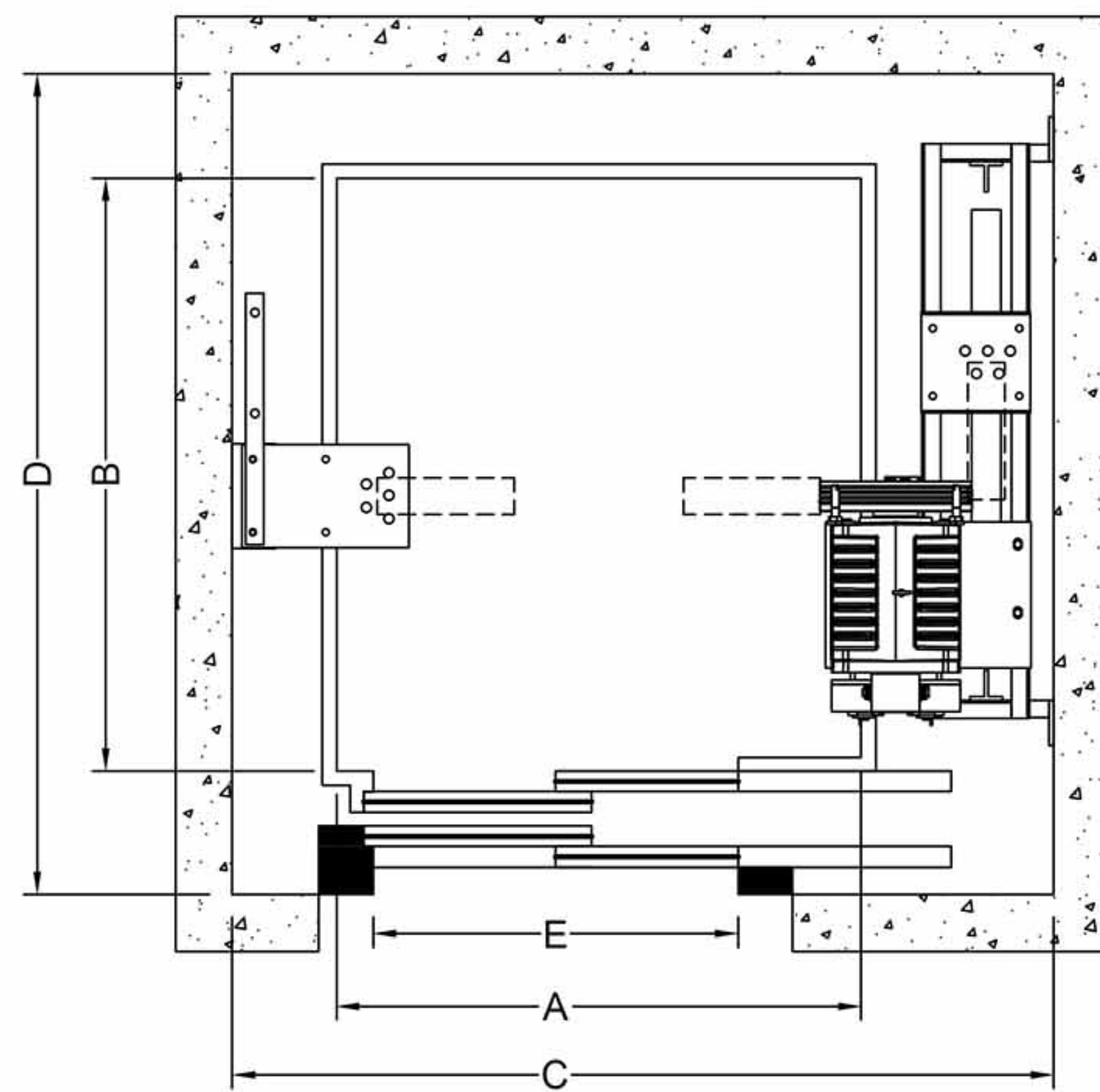
When the whole scenario of living is getting uplifted then why can't elevators be a part of this trend? We do offer an insane range of luxury lifts which enhances the grandiosity of residential and corporate corridors.







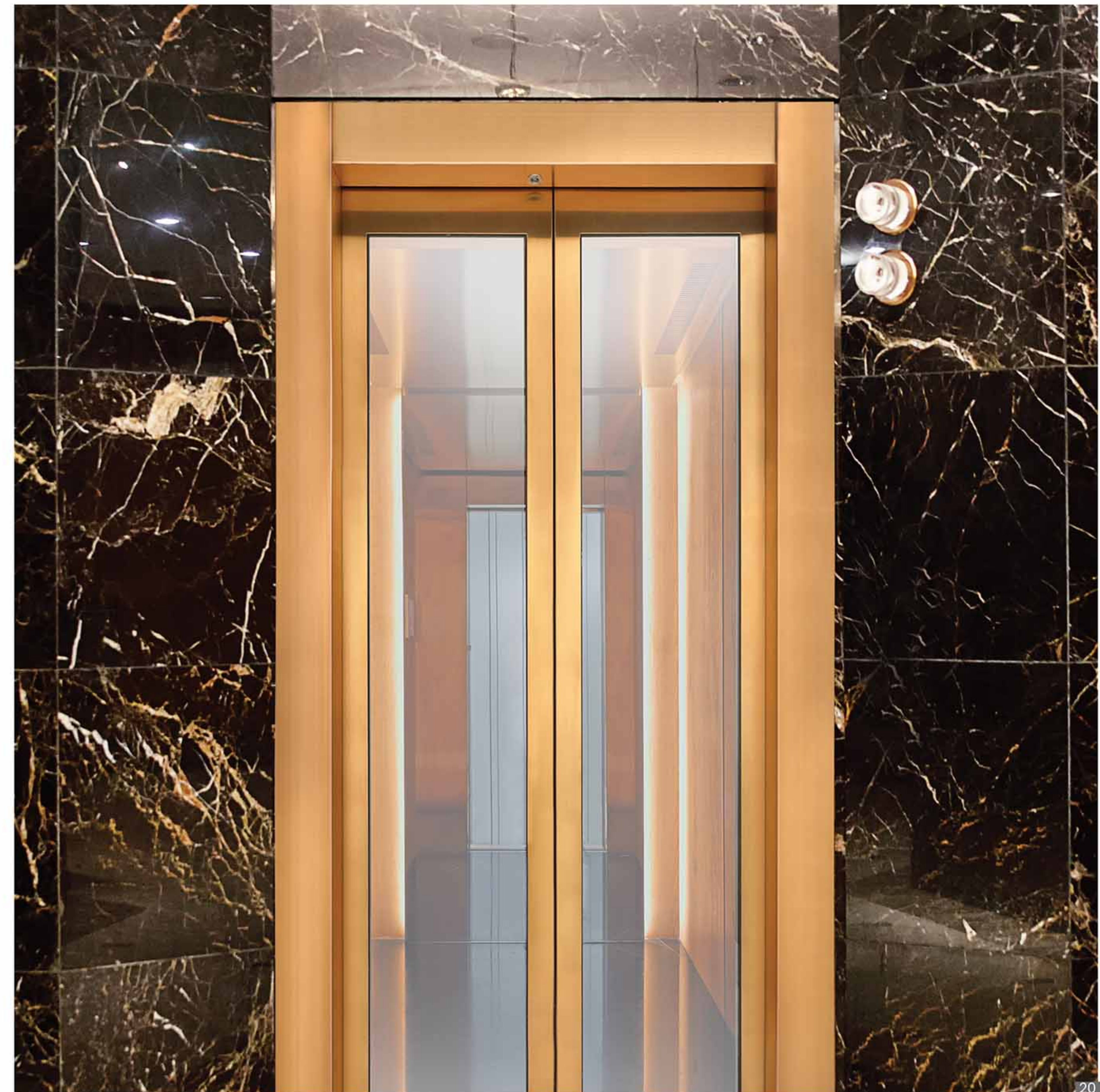
Hoistway Elevation & Plan  
For Center Opening Door



Hoistway Elevation & Plan  
For Telescopic Door  
(Side Opening)

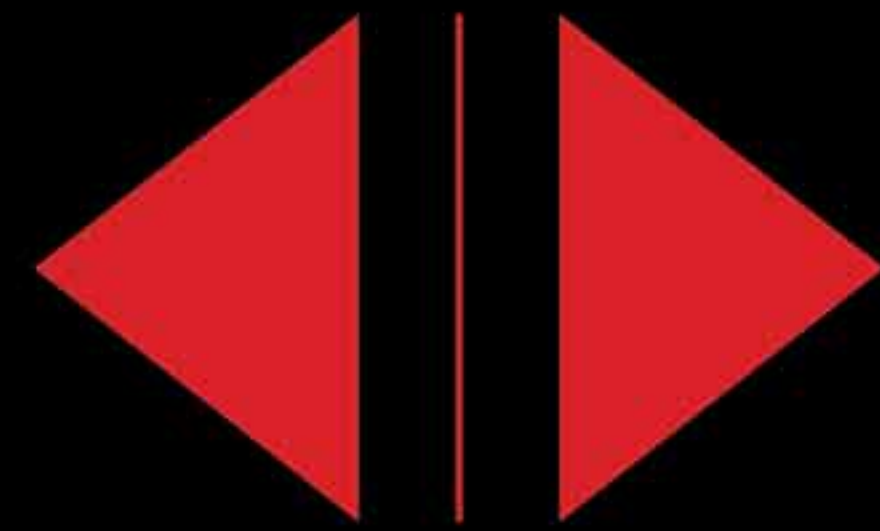
## AUTO DOOR ELEVATOR

Luxury has its colors and elevators have too. Besides rose gold auto door, we have plenty of choices in terms of auto door colors. Besides that, we provide a wide range of etching gold & S.S. finishes.

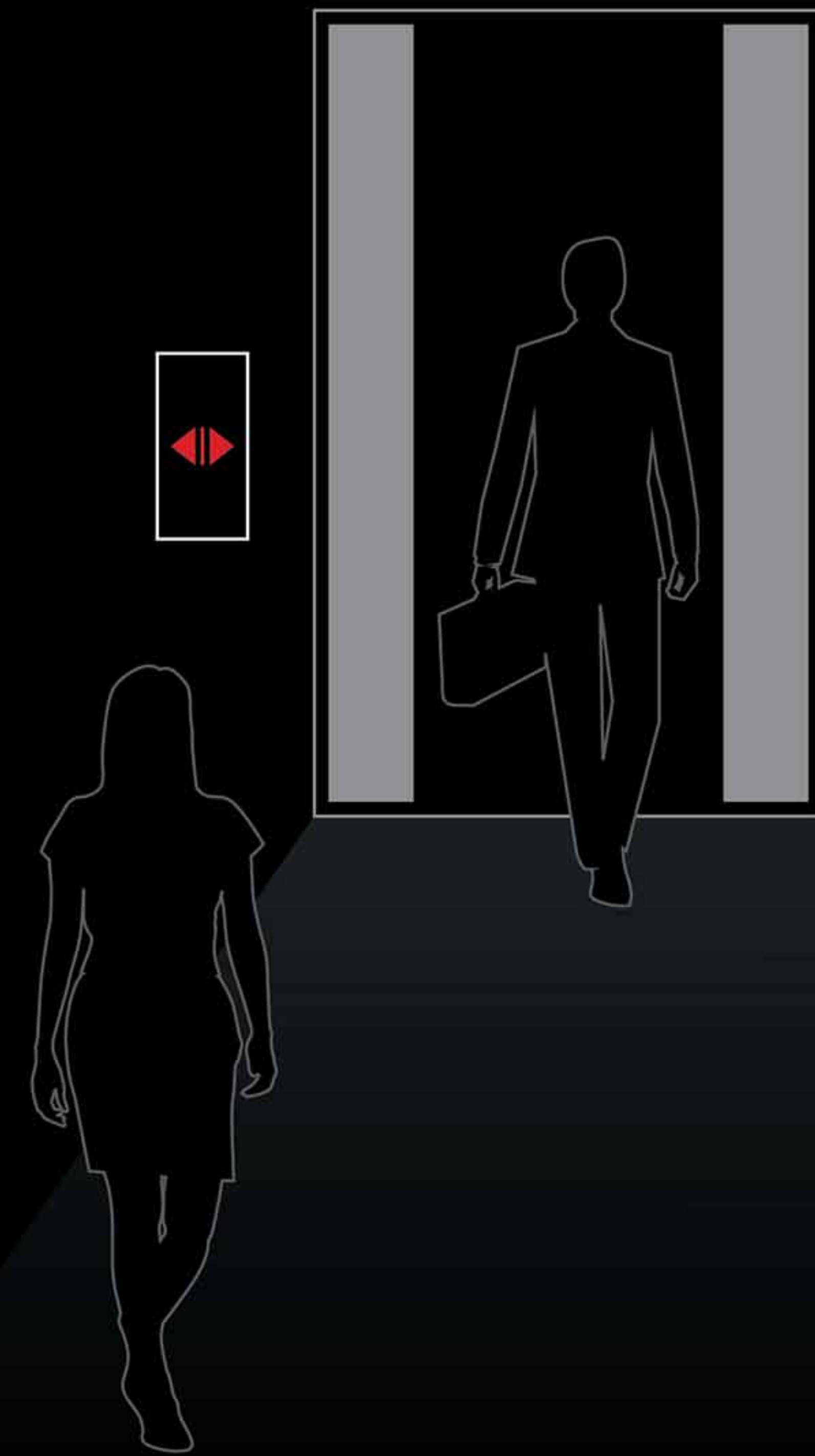




# OPENING UP THE RELIEF



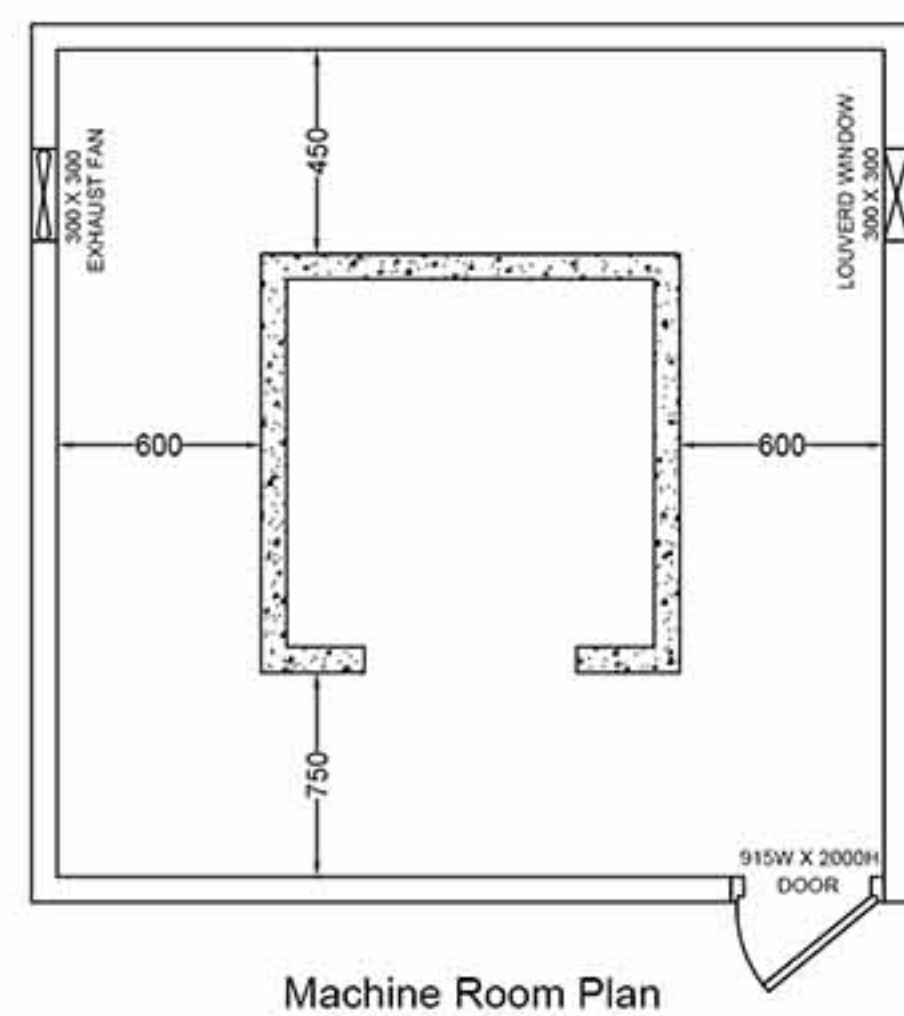
Nowadays the situation has become like if someone finds the elevator fault, the joy of accessing the floor gets worse .And we work day and night not to let that relief get shattered.



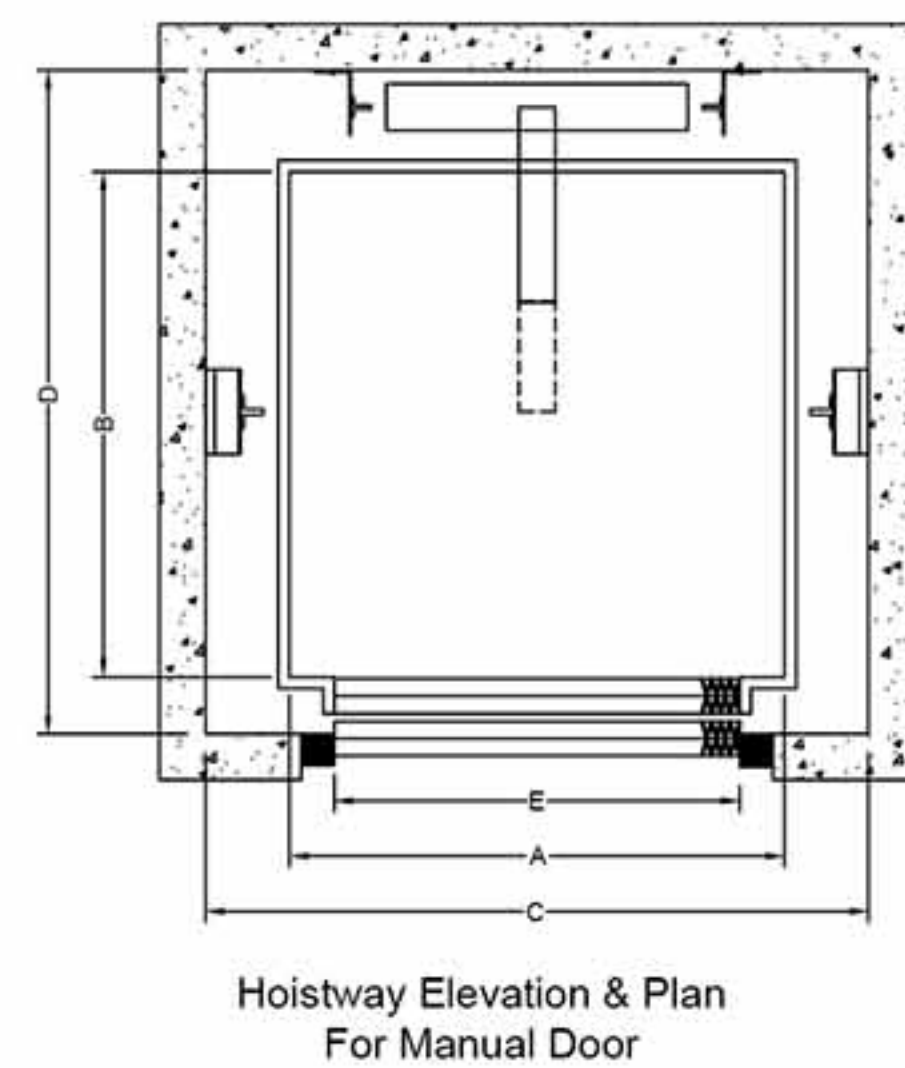




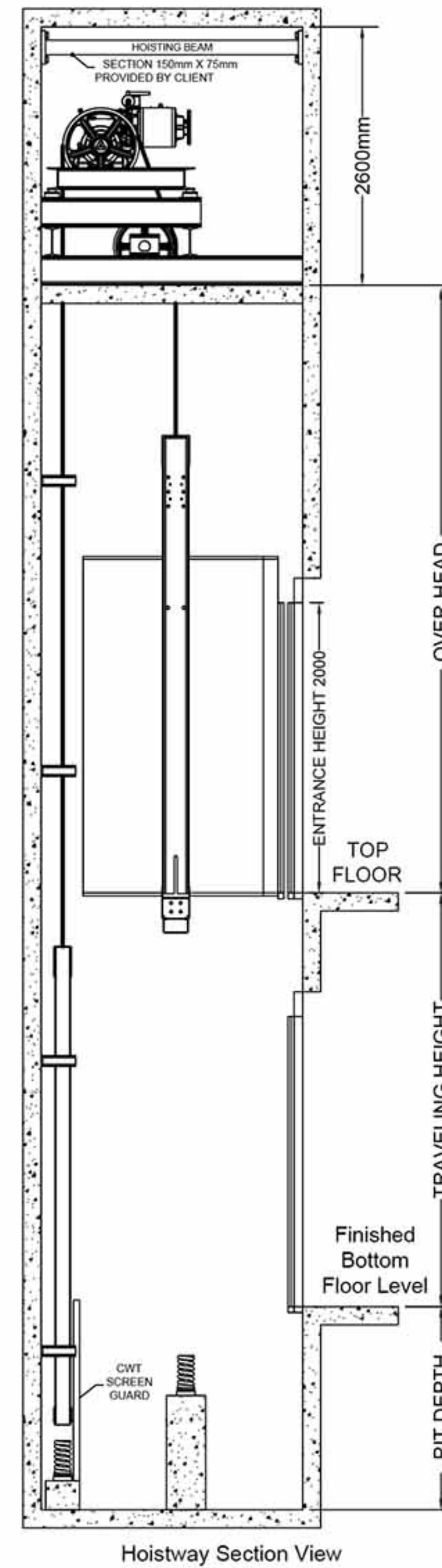
► S.S. MANUAL TELESCOPIC DOOR



Machine Room Plan



Hoistway Elevation & Plan For Manual Door



Hoistway Section View

## MANUAL DOOR ELEVATOR

In terms of elevators, this era doesn't much belong to manual doors as elevators have gone so updated. But you can't underestimate the evergreen ease and comfort, we still deliver it with the utmost precision and it's needless to add that it's been proven as the most economical version when it comes to maintenance.

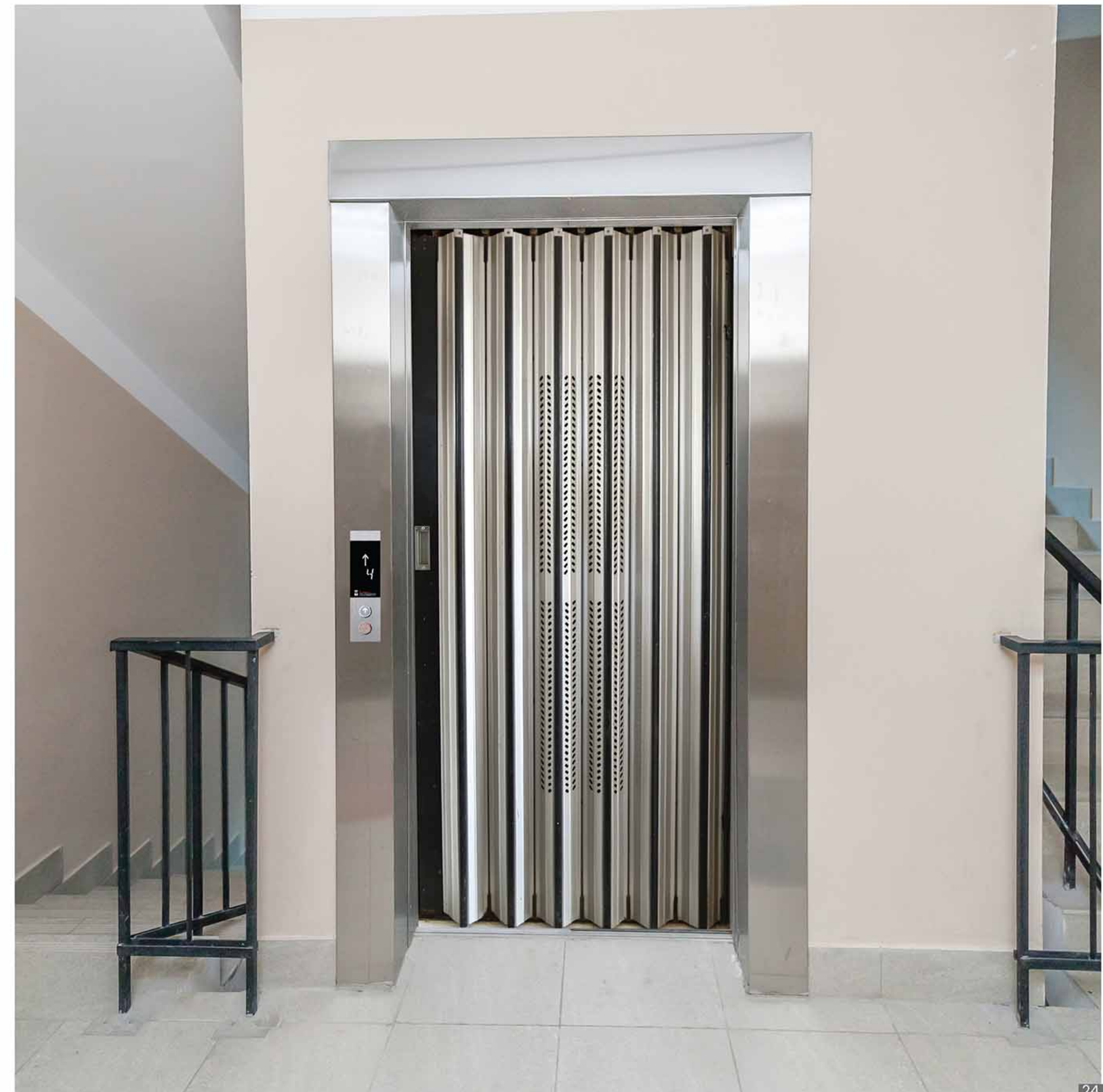
### Passenger Lift With Manually Operated Doors - Geared Machine With Machine Room (Back Counter Weight)

Load	Lift Well		Car Inside		Entrance	Over Head	Minimum Pit	
	In KG	Width	Depth	Width				Depth
Person		C	D	A	B	E	Up to 1 m/Sec	
4	272	1600	1250	1100	700	700	4800	1600
5	340	1600	1300	1100	850	700	4800	1600
6	408	1670	1450	1100	1000	700	4800	1600
8	544	1800	1600	1300	1100	700	4800	1600
10	680	1850	1800	1350	1300	1000	4800	1600
13	884	2500	1600	2000	1100	1000	4800	1600
16	1088	2500	1800	2000	1300	1000	4800	1600
20	1360	2500	2000	2000	1550	1000	4800	1600

Note :- All dimensions are in MM size

Terms Of Table :-

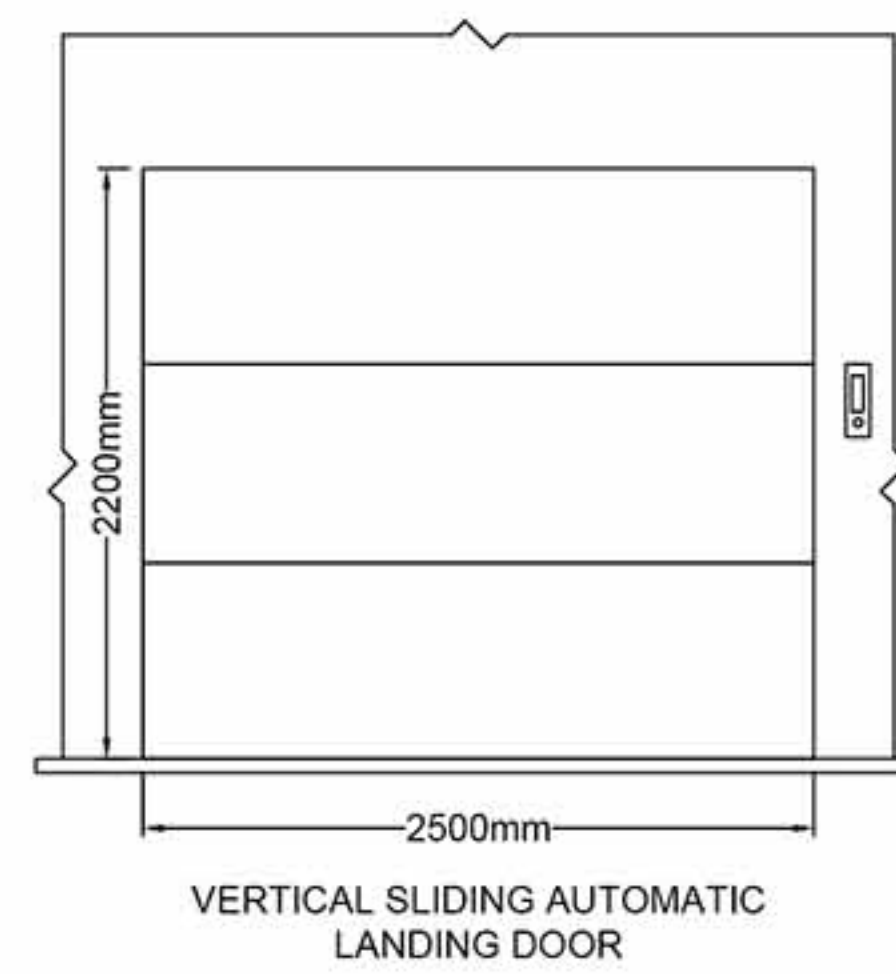
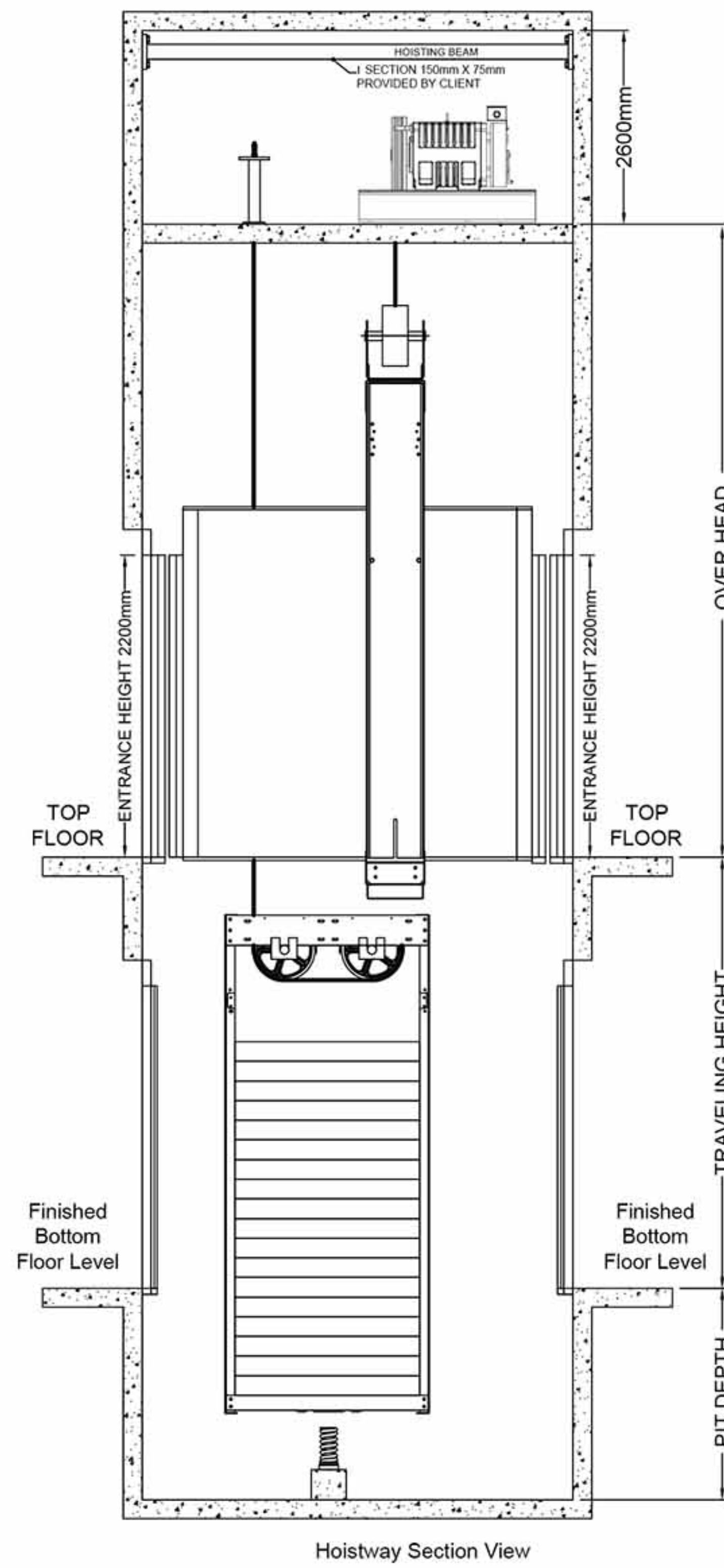
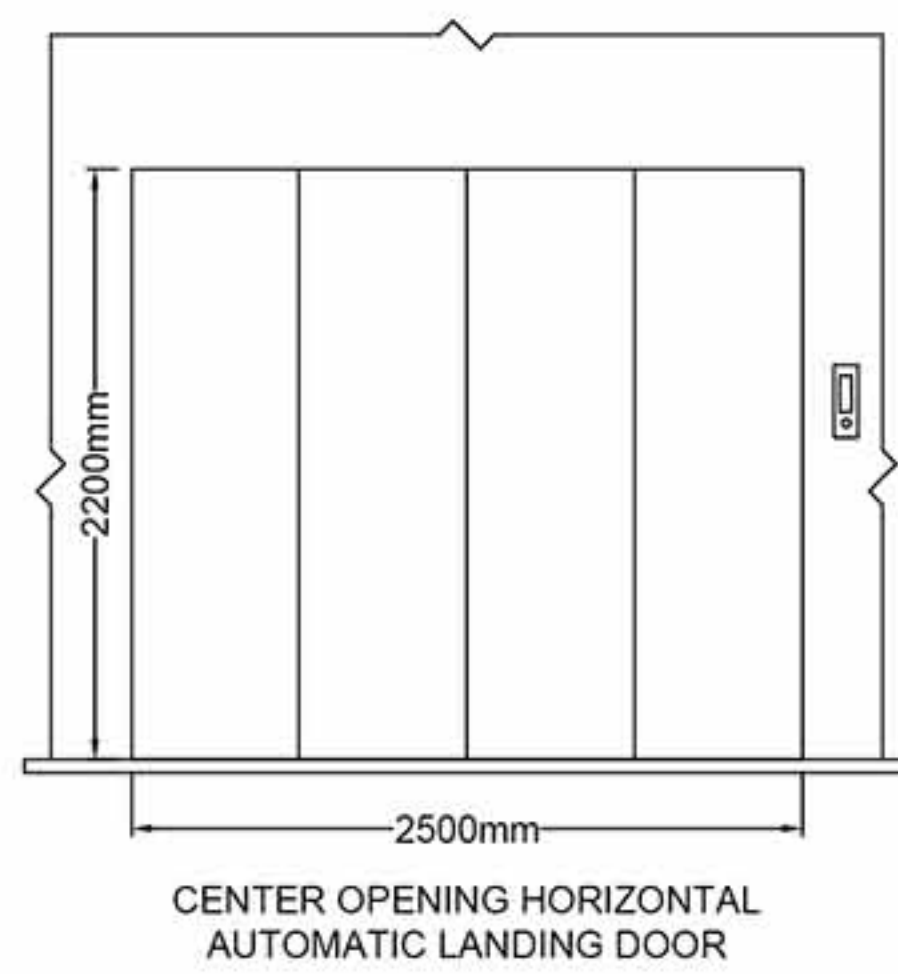
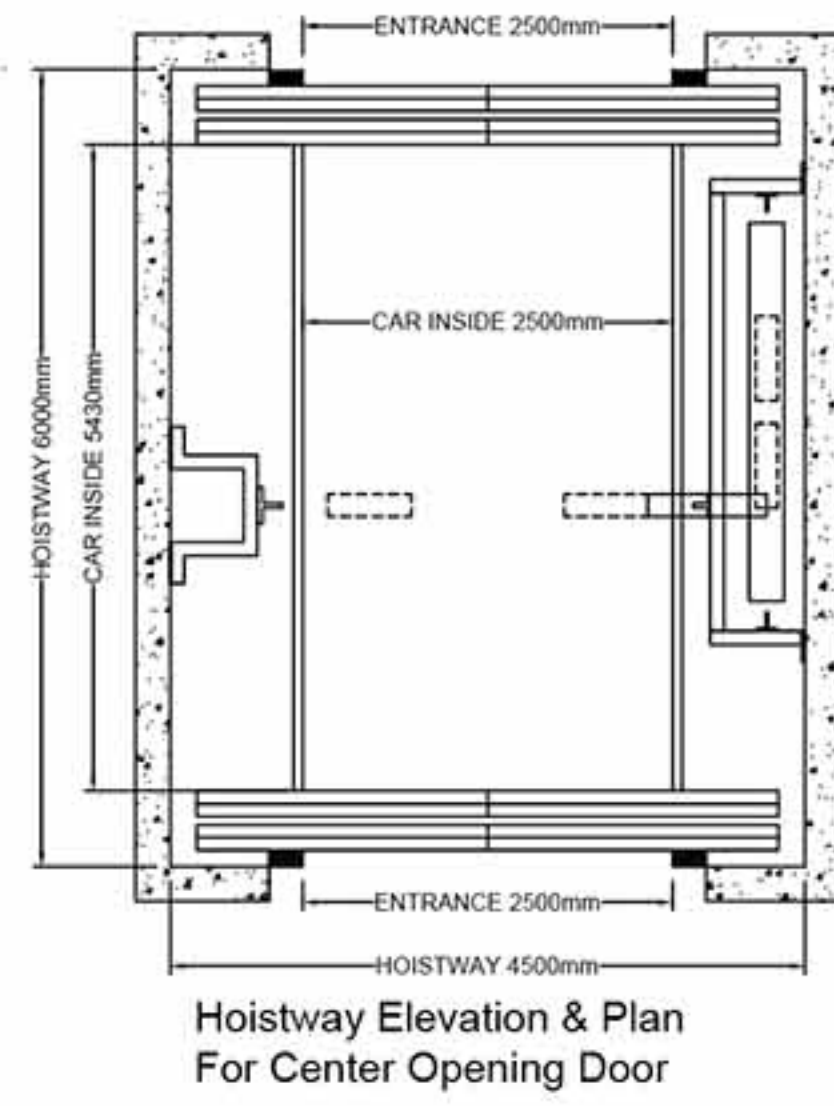
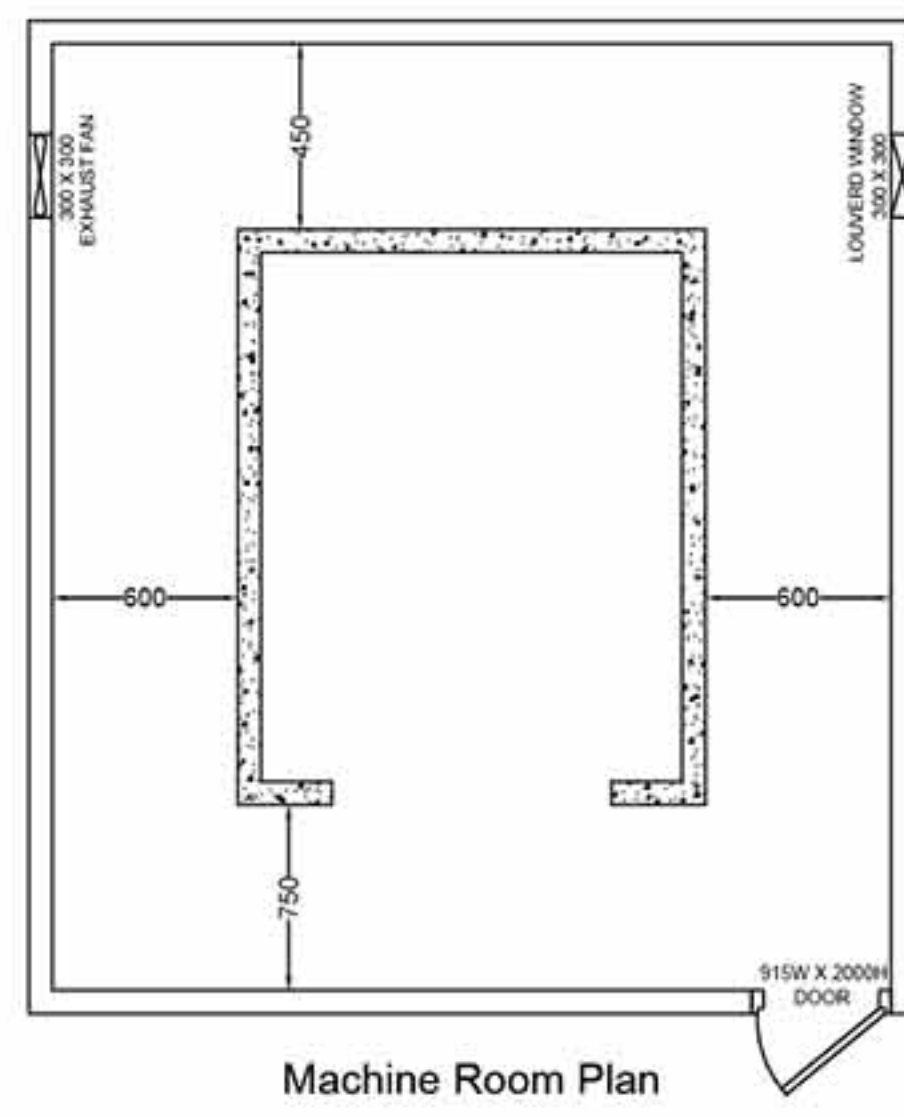
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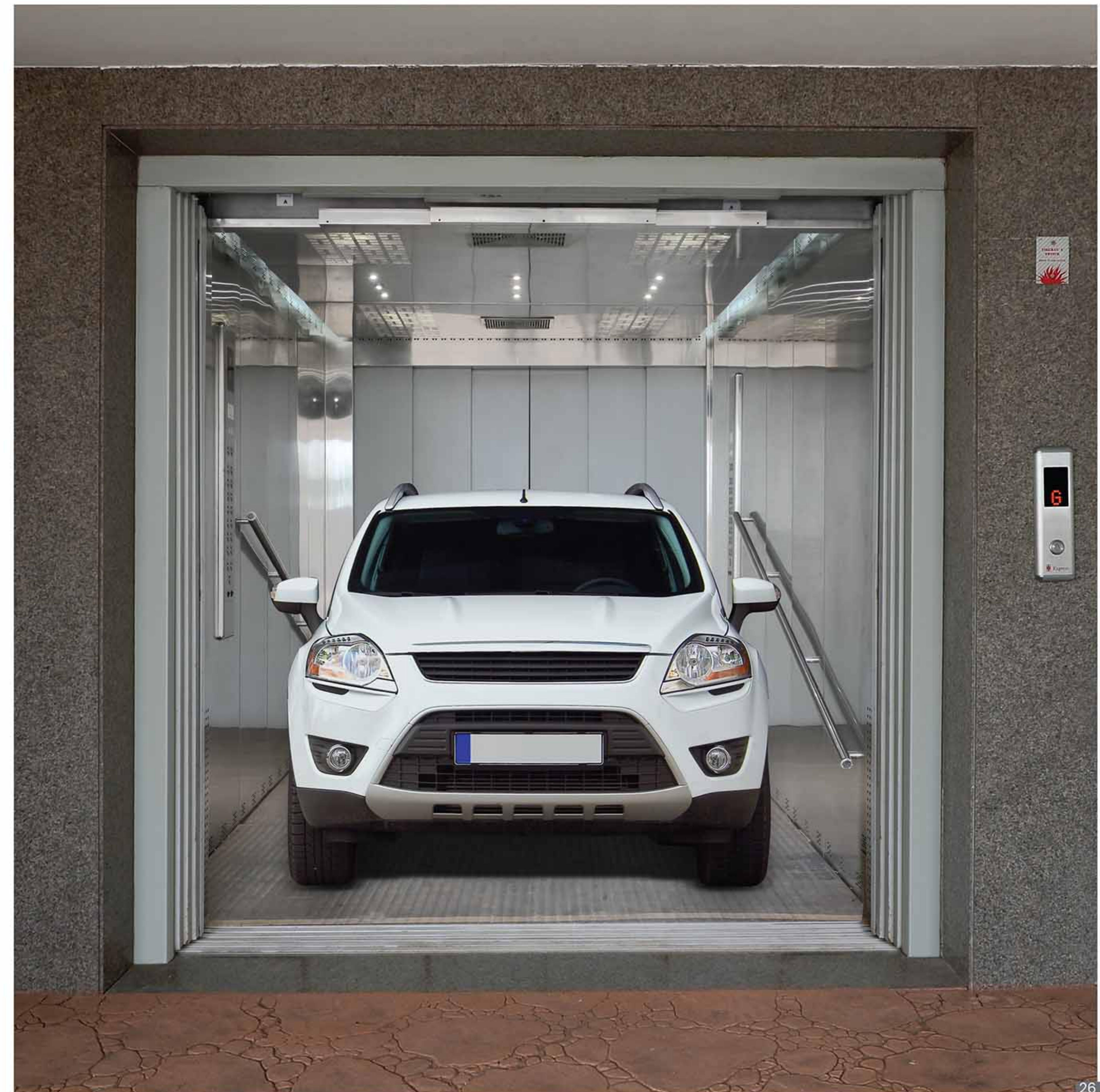


**Elevators For Light Four Wheelers  
Capacity Up To 2500 kg**



# CAR ELEVATOR

This lift offers the bungalow experience though you live in a high rise because your vehicle gets transported to the same floor where you're living. We do offer the widest range of car elevators from limited - sized car accommodation to larger ones.

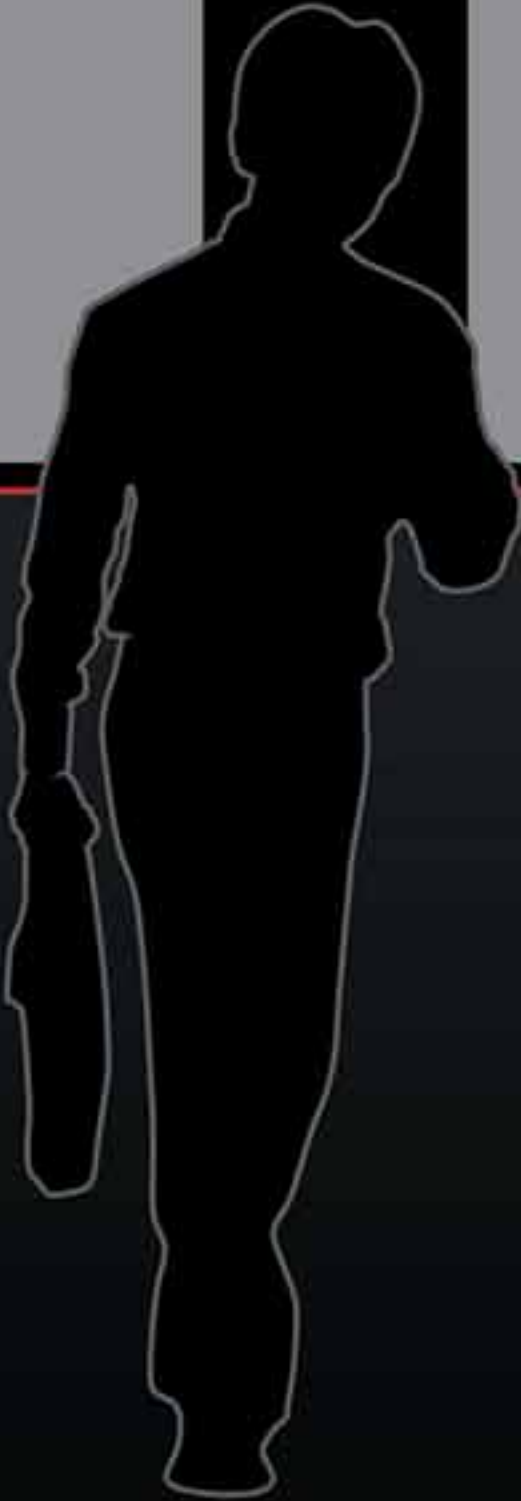
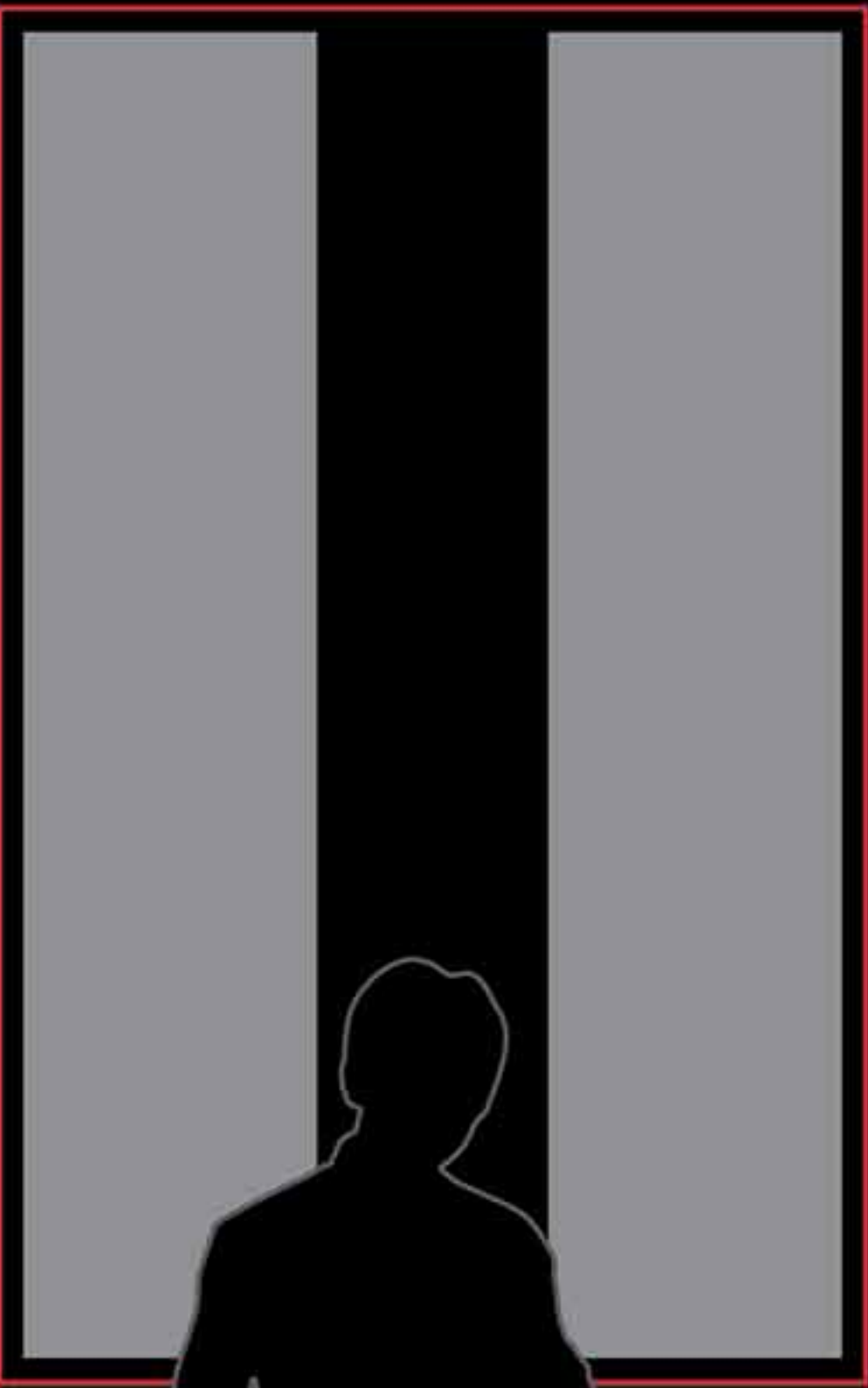




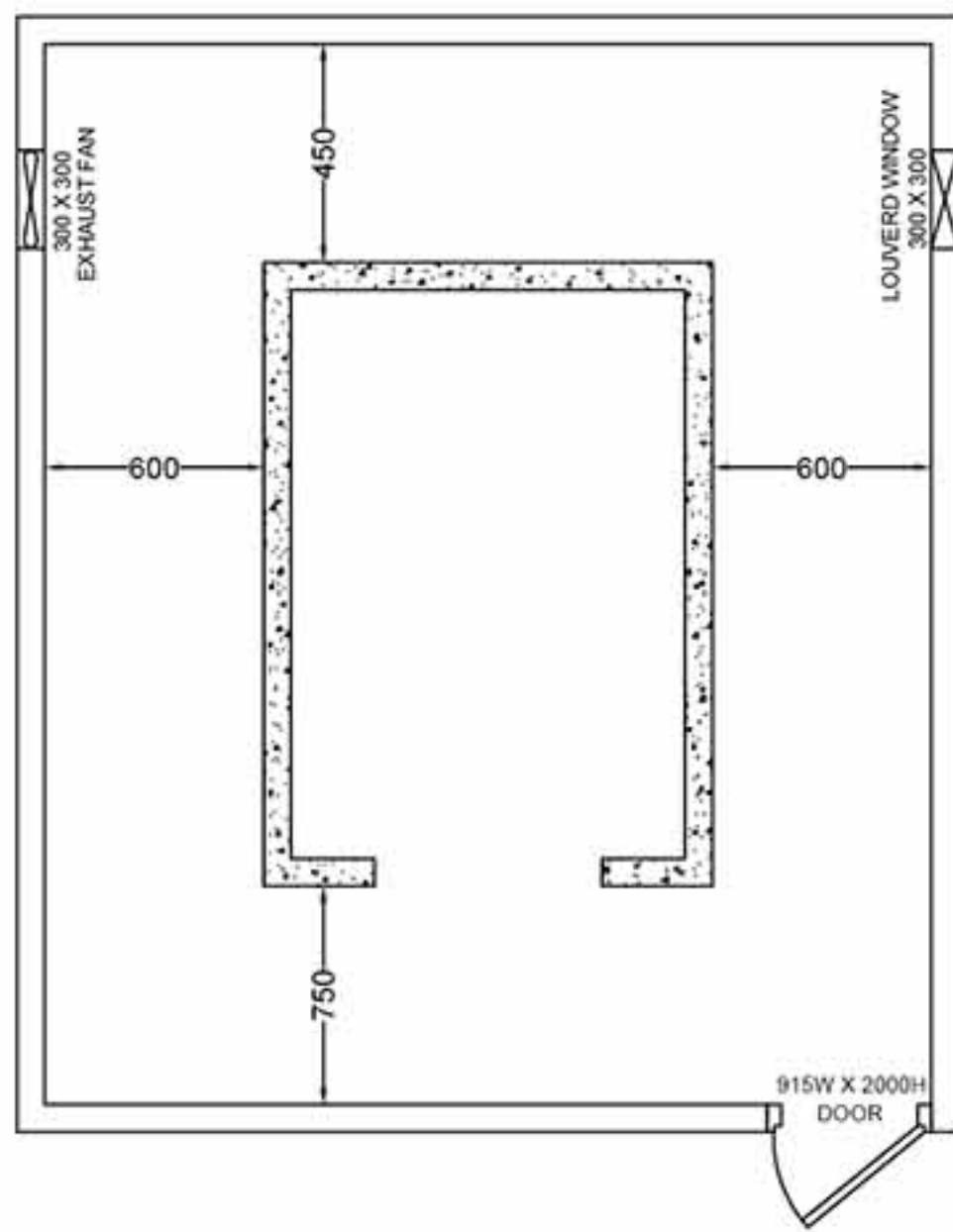
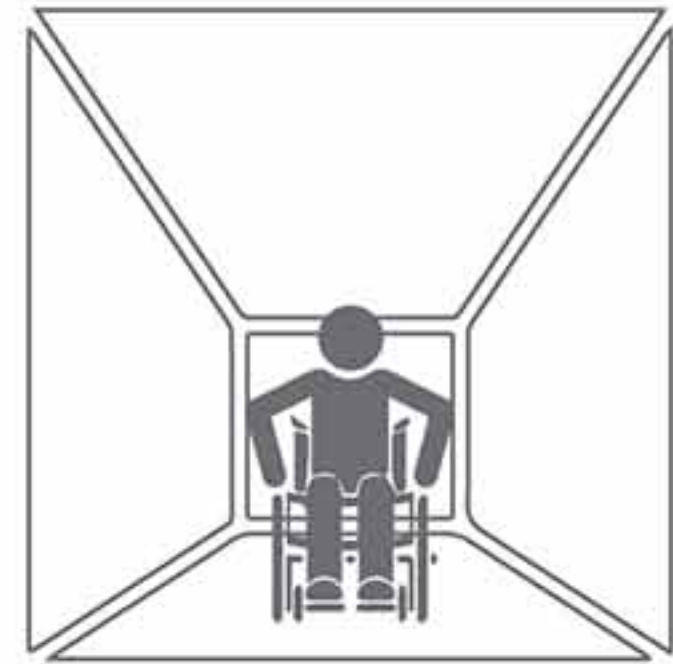
# SPLENDID PORTAL



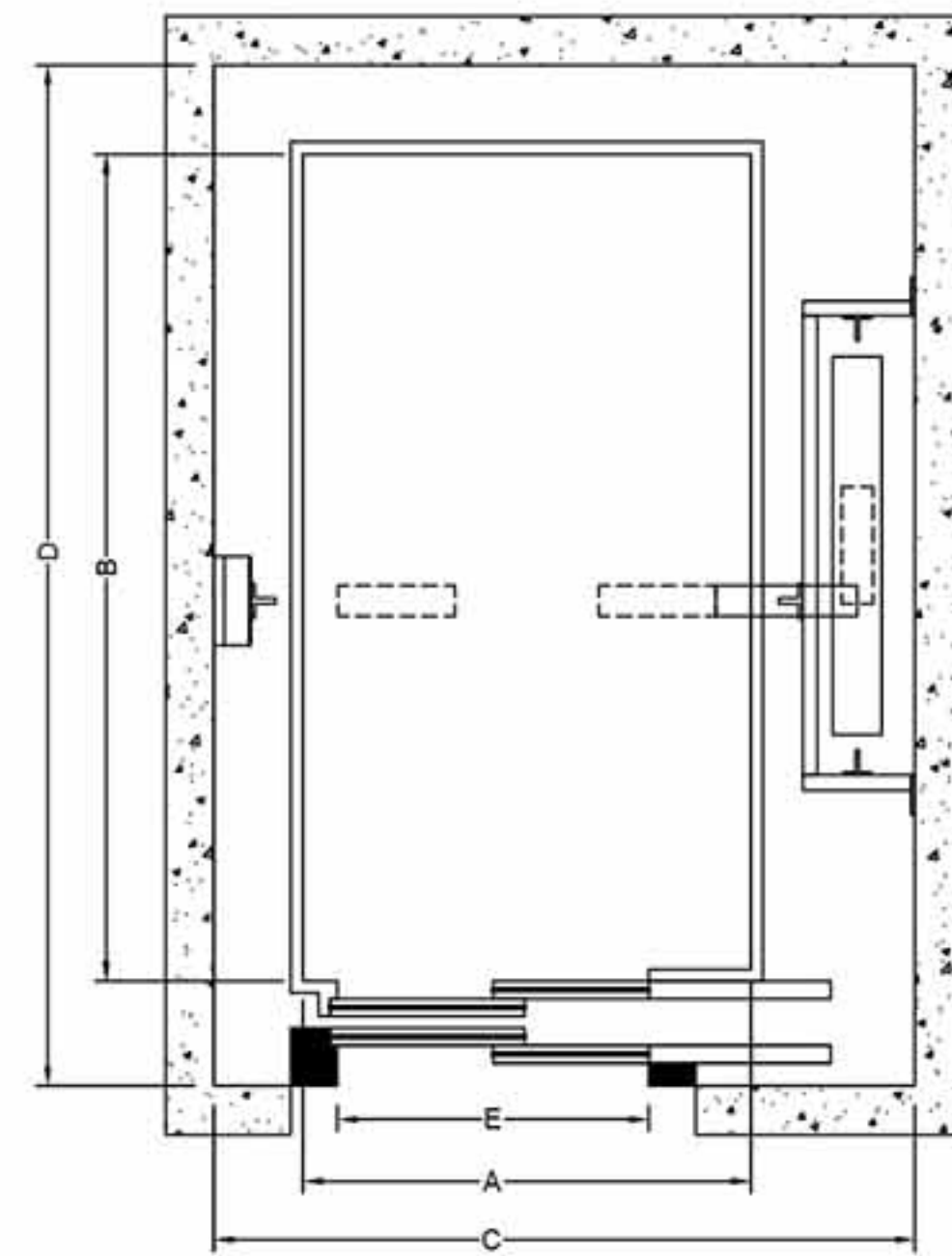
"First Impression Is The Last Impression", though being a very cliché line, it has the same impact over the years and in our case, doors of elevators are the first impression and we pour our immense hard work into it.



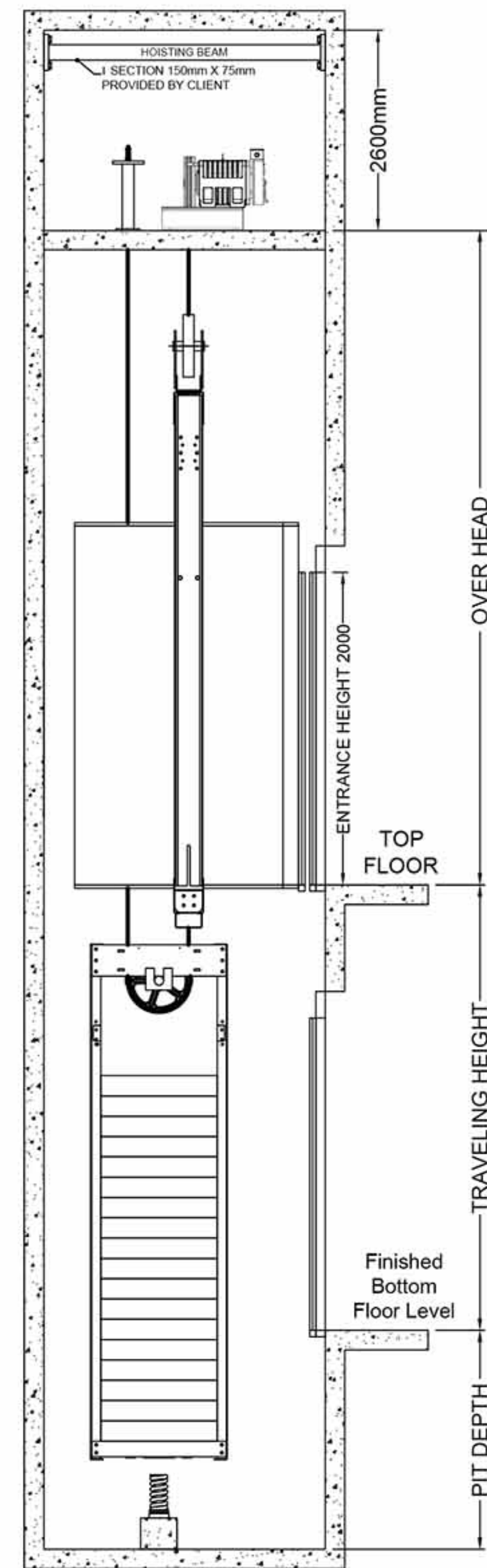




Machine Room Plan



Hoistway Elevation & Plan For Telescopic Door. (Side Opening)



Hoistway Section View

**Average Size Of Hospital Stretcher & Wheelchair In India**

Hospital Stretcher, Size: L 1950 x W 630 x H 820 mm

Length Of Wheelchair – 1100 To 1250 mm

Width Of Wheelchair – 600 To 700 mm

**Hospital Lift Telescopic Opening - Gearless With Machine Room (Side Counter Weight)**

Load		Lift Well		Car Inside		Entrance	Over Head	Minimum Pit
Person	In KG	Width C	Depth D	Width A	Depth B	Width E		Up to 1.5 m/sec
15	1020	1800	3000	1000	2400	900	4800	1600
20	1360	2200	3000	1300	2400	1200	4800	1600
26	1768	2400	3000	1600	2400	1200	4800	1600

Note :- All dimensions are in MM size

**Terms Of Table :-**

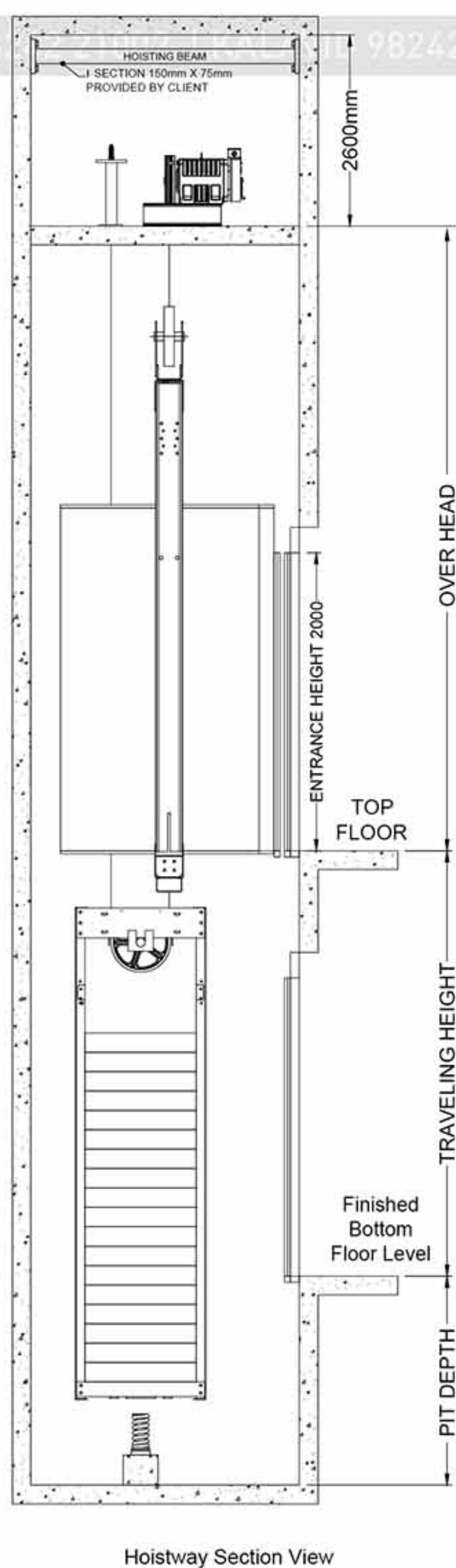
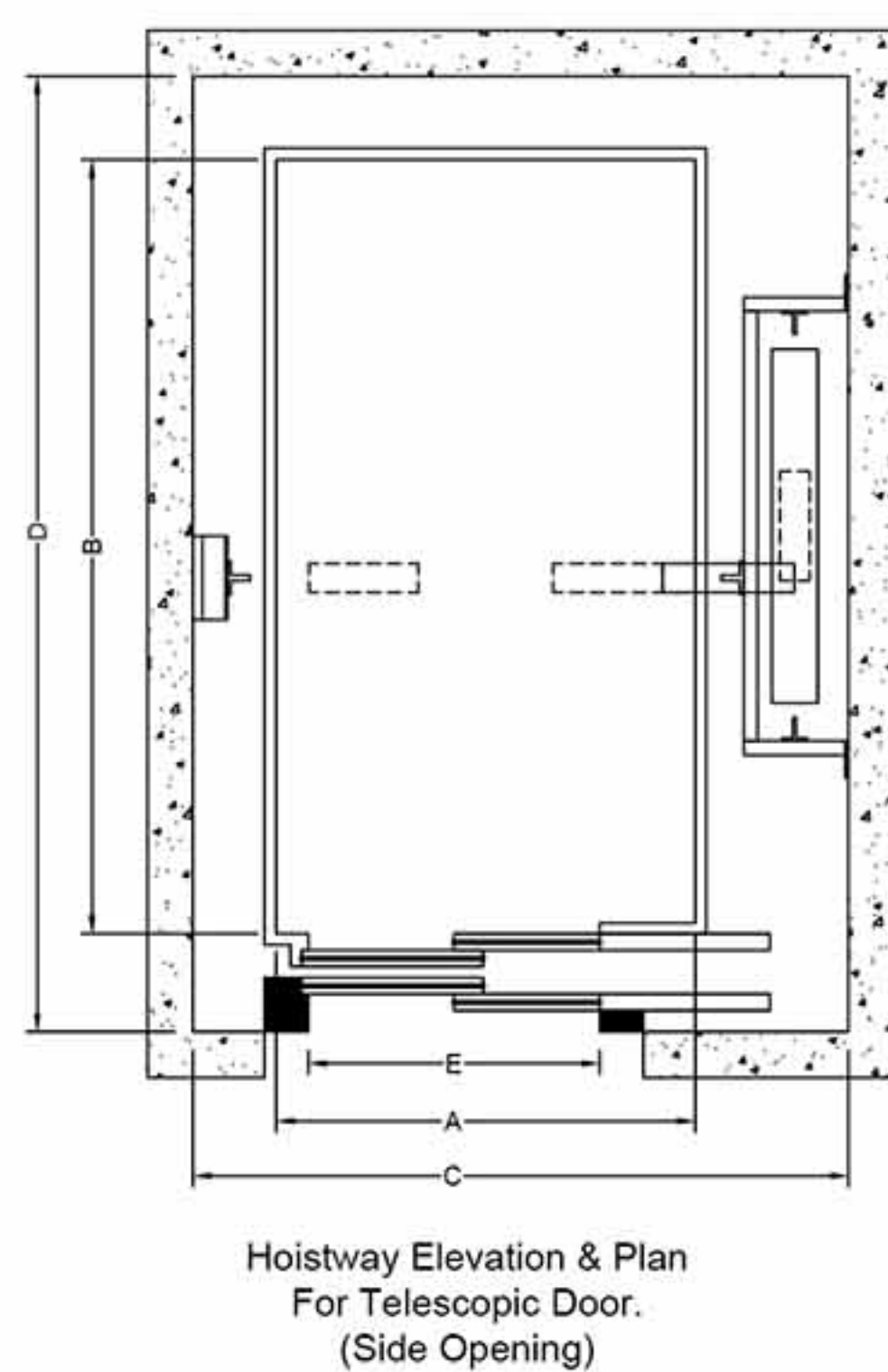
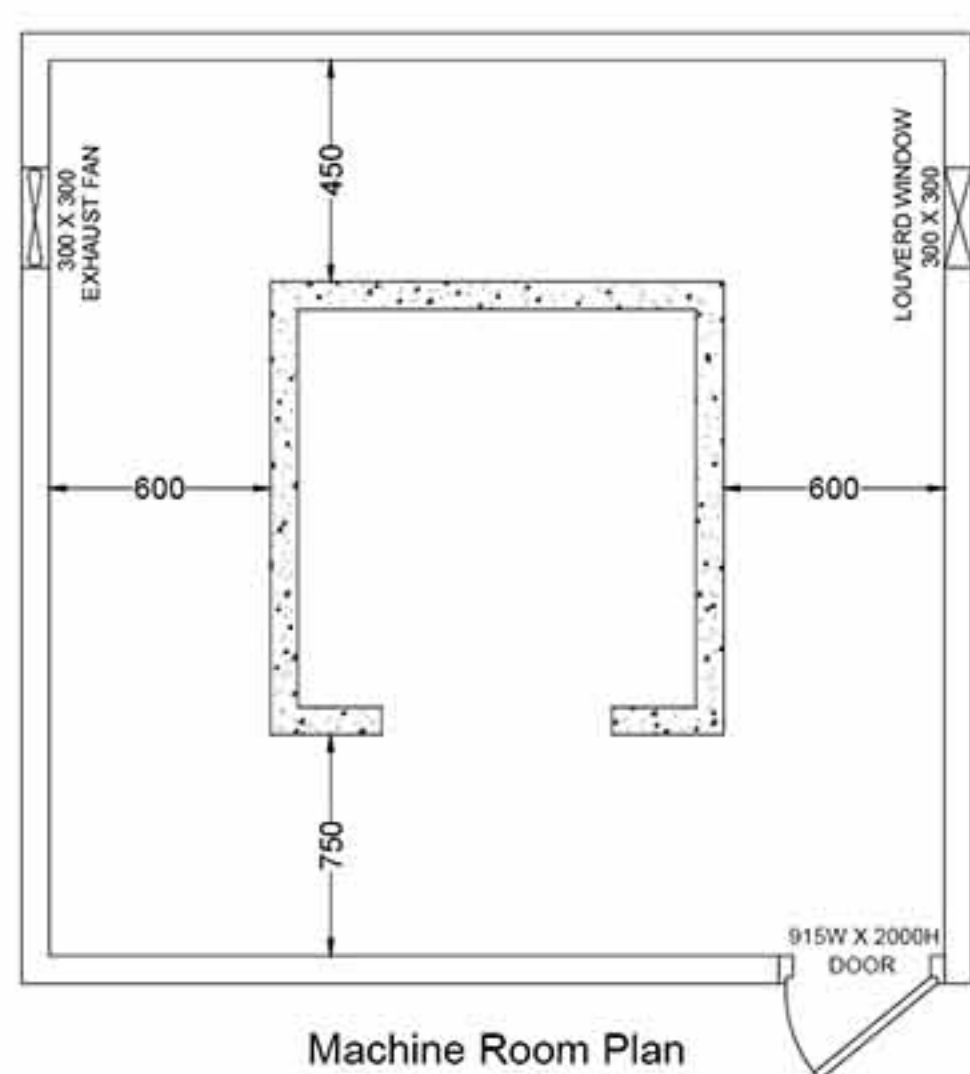
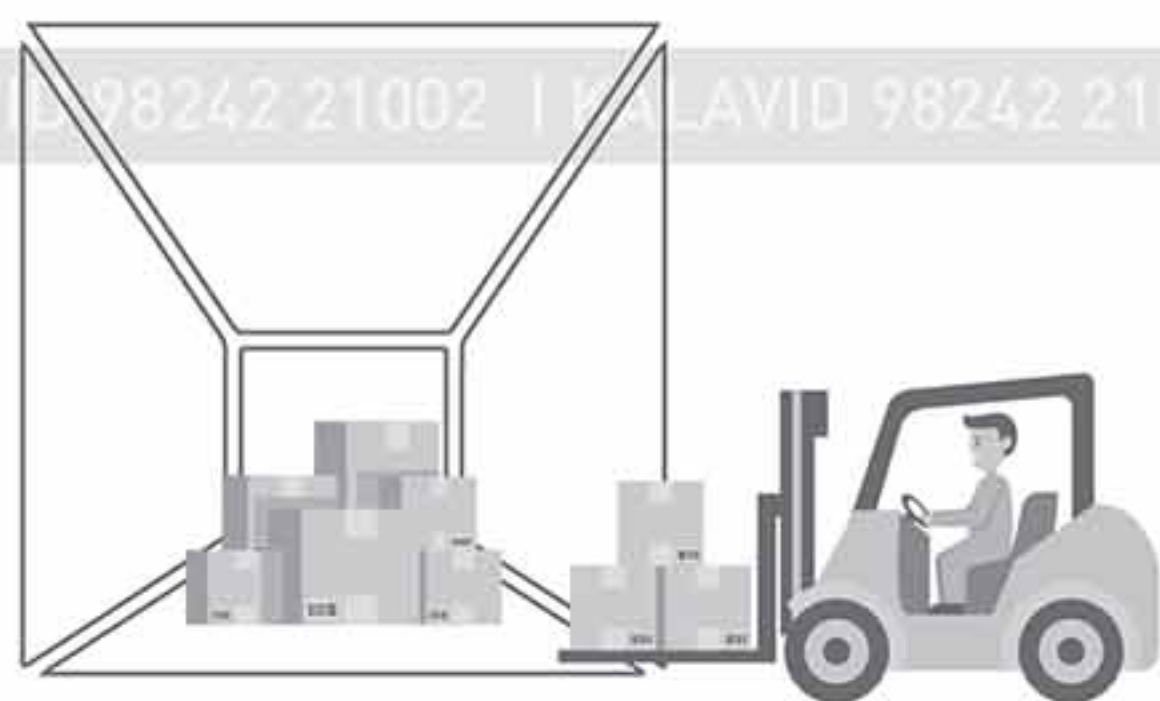
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# HOSPITAL ELEVATOR

Yes, the stretcher lifts. Without them, no one can imagine the hospitals because not exactly like surgical equipment but these elevators daily save so many lives through carrying the patients with the excelling speed and **Express Electro Elevators Co.** is proud to be a part of such life saving tasks indirectly.







# GOODS ELEVATOR

Work goes in a good way if the goods lift correctly uplifts the goods. Goods are all about heavy weight and we have responsibly carried the weight of fulfilling every need of an ideal goods elevator.



Good Lift Telescopic Opening – Gearless With Machine Room (Side Counter Weight)

Load	Lift Well		Car Inside		Entrance	Over Head	Minimum Pit	
	Width	Depth	Width	Depth				
Person	In KG	C	D	A	B	E	Up to 1.5 m/sec	
-	500	1900	1500	1100	1200	1100	4800	1600
-	1000	2300	2100	1400	1800	1400	4800	1600
-	1500	2600	2300	1700	2000	1700	4800	1600
-	2000	2600	2800	1700	2500	1700	4800	1600
-	2500	2900	2800	2000	2500	2000	4800	1600
-	3000	2900	3300	2000	3000	2000	4800	1600
-	4000	3400	3300	2500	3000	2500	4800	1600

Note :- All dimensions are in MM size

Terms Of Table :-

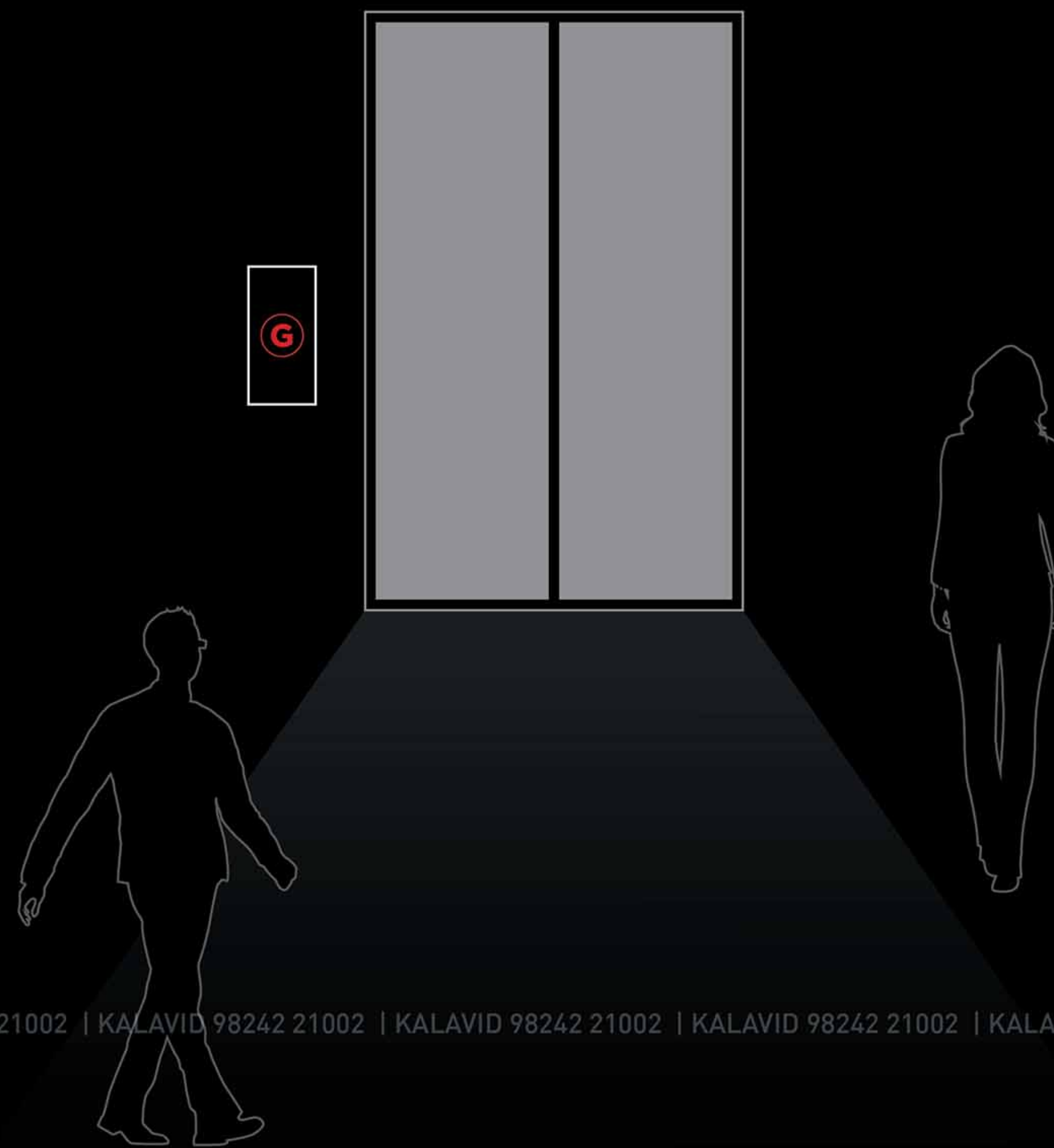
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# GIMMICK IS NOT ALLOWED IN MECHANISM



Through mechanism, elevators can breathe and as an answerable company, we take care of every mechanism in the most precised manner.







**Gearless Machine With MRL Structure**  
It offers a rich look to a resident and is exclusively suitable for bungalows. While installing it, there is no need to correct the elevation.



**E Touch COP**  
It enhances the charm of the lift's car and it delivers a rich look to the elevator which is also appropriate for bungalows.

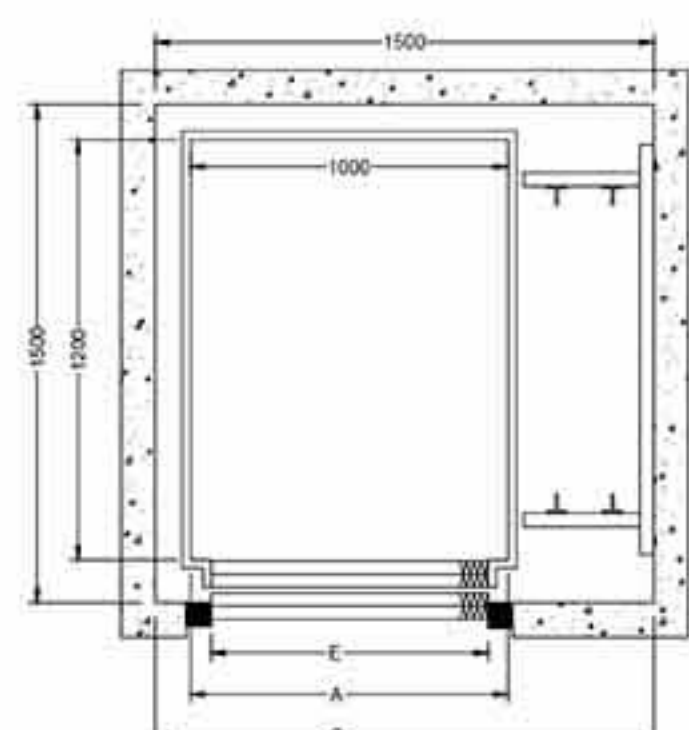


**E Touch Landing**  
It's a touch screen device, wherein one can save graphic images and it's as slim and tiny as our smartphones. This device is more suitable for bungalows.

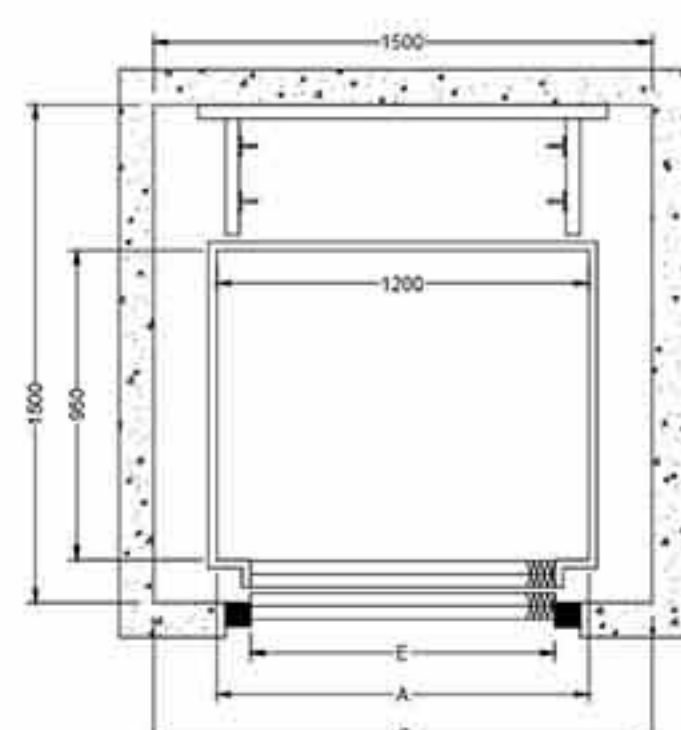


# HOME ELEVATOR

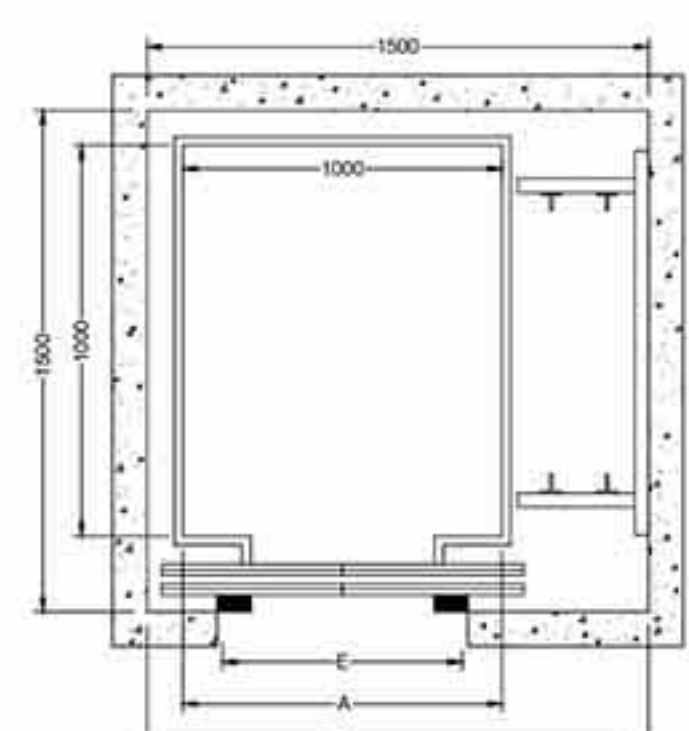
It can be categorized as the most accessible lift because it belongs to each age group. In such a case, you can't be liberal in installation and can't be late. As far as after sales service is concerned **Express Electro Elevators Co.** is known to deliver both the parts effectively. Ease, space and elegance are the primary aspects of home lifts.



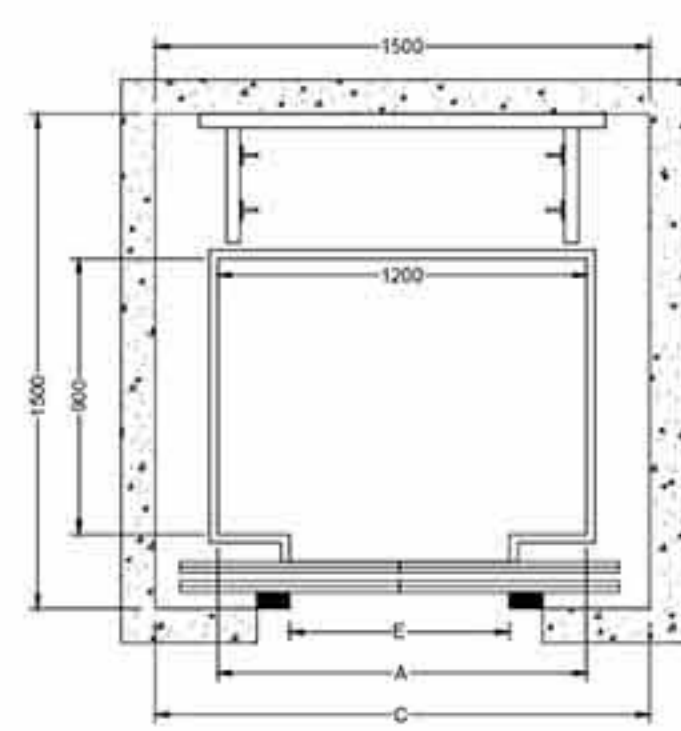
Hoistway Elevation & Plan For Manual Door SIDE COUNTER



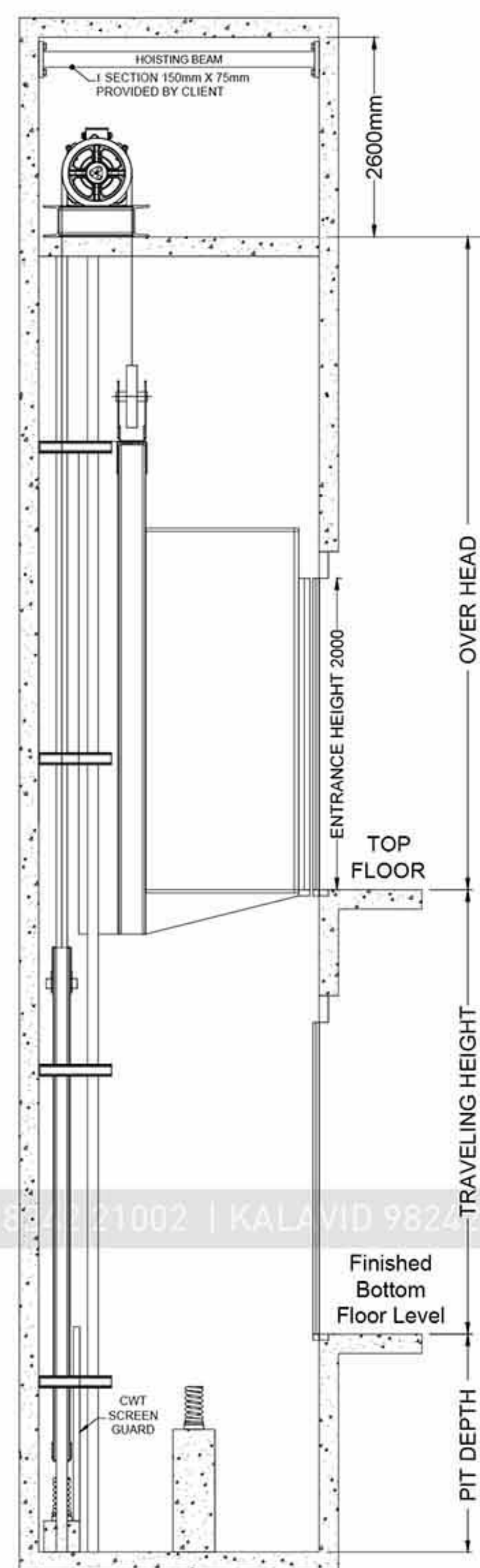
Hoistway Elevation & Plan For Manual Door BACK COUNTER



Hoistway Elevation & Plan For Center Opening Door SIDE COUNTER



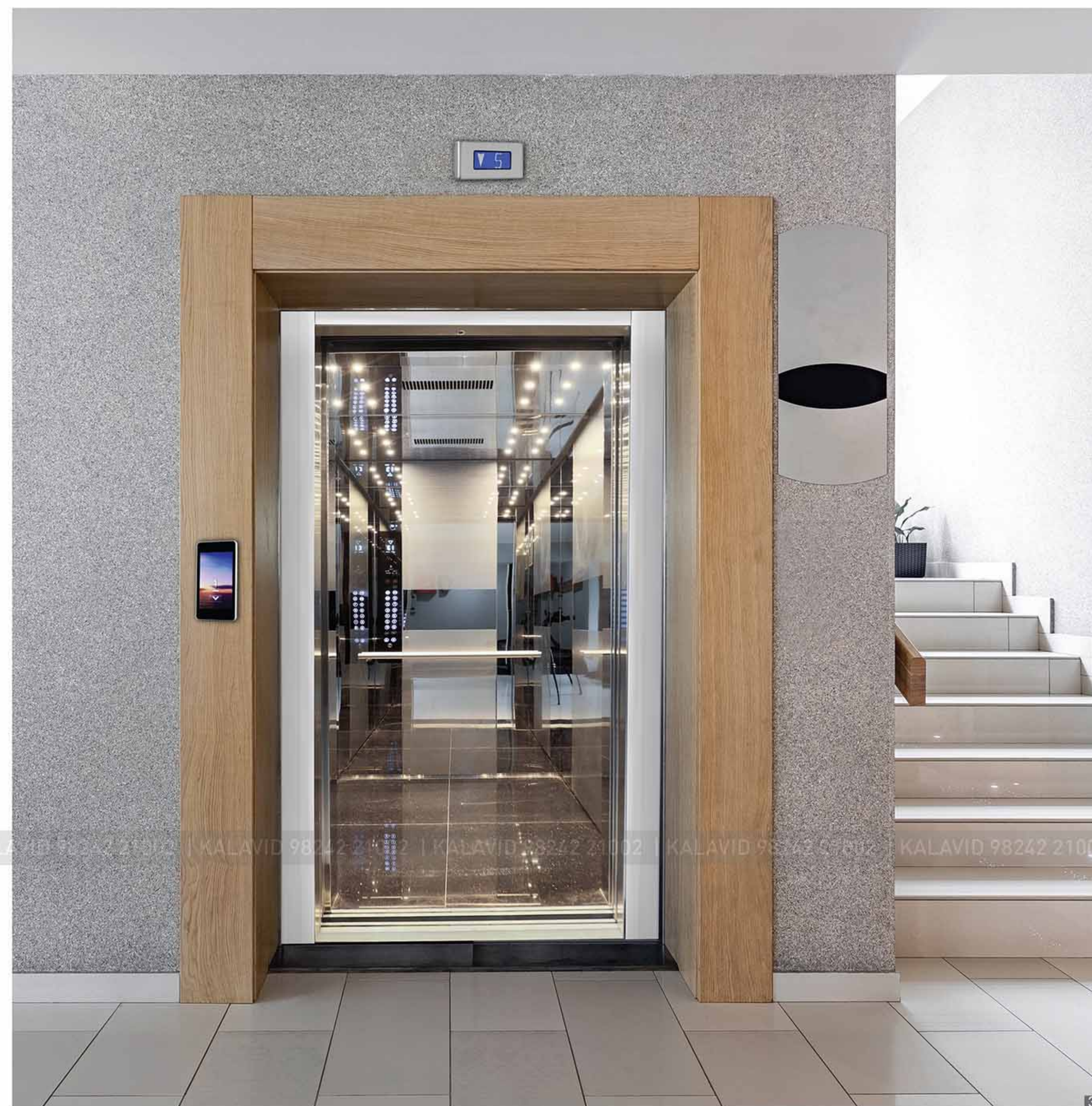
Hoistway Elevation & Plan For Center Opening Door BACK COUNTER



Hoistway Section View

### Home Elevator Technical Data

RPM	120	Pulley Dia.	100 mm
Frequency	12 Hz	Rope Dia.	4 mm
Voltage	130 V AC	No. Of Ropes	4
Kw / Hp	0.75/1	Lifting Capacity	300 kg
Weight	70 Kg	Lift Speed	Up to 0.50 m/s
Brake	Pick-Up 220 V DC	Max. Travel	15 m
Voltage	Holding : 110 V DC	Starts / Day	100







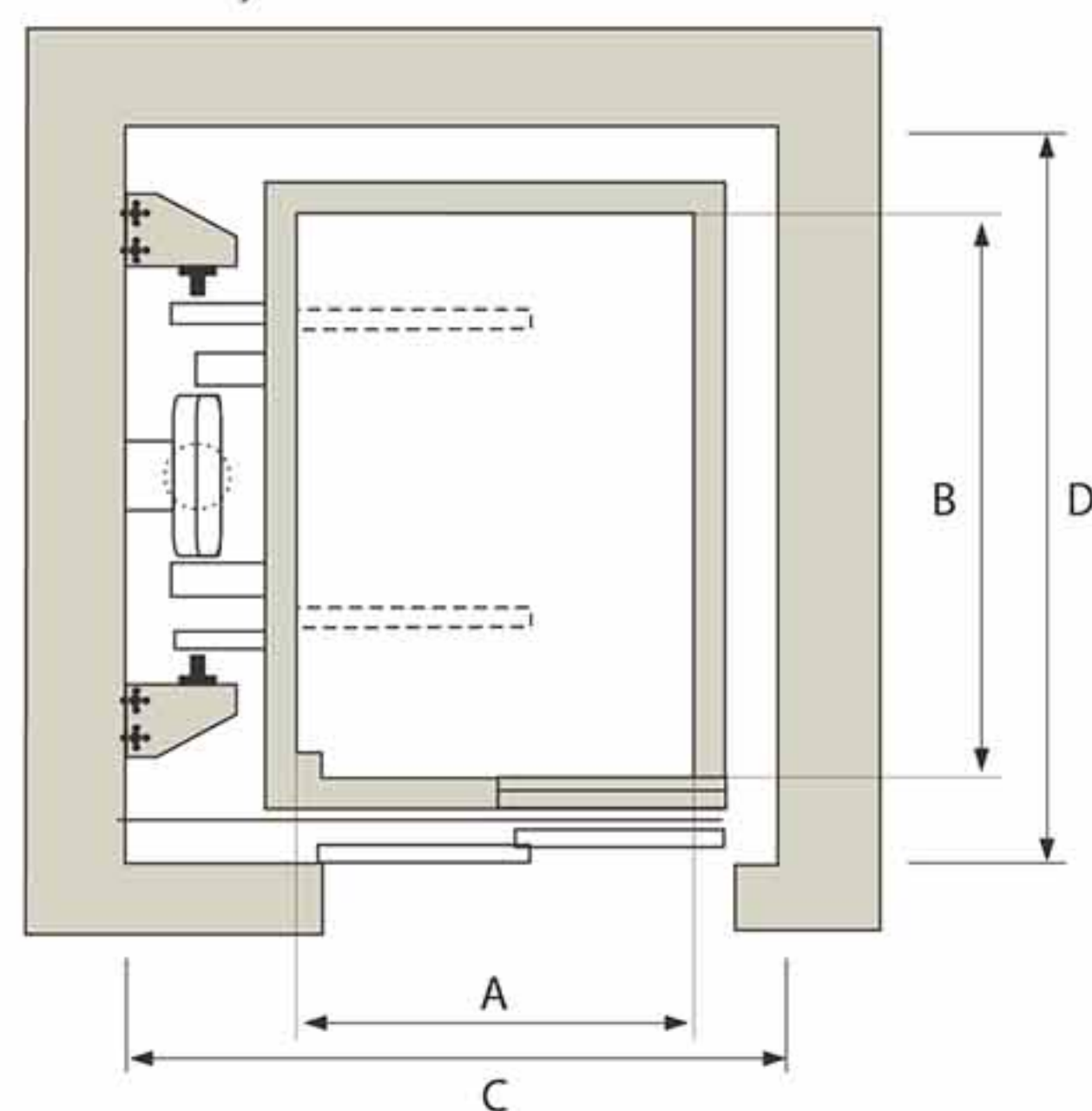
# HYDRAULIC ELEVATOR

These kinds of elevators can be installed even if there is no plan while designing the structure. Besides this, if one installs this, there is no need for a machine room, Less electric power is required while traveling to the lower side, it reduces the maintenance cost & gets installed rapidly.



Hydraulic Valve is a solenoid operated check valve designed for hydraulic elevators and includes a self-closing manual lowering valve. Its purpose is to allow free flow of oil from the pump unit to the cylinder for upward travel and to prevent flow in the reverse direction from the cylinder to pump until an electrical signal is given to its solenoid.

Hoistway Elevation & Plan



## Benefits Of The Hydraulic Elevator

- ▶ Hydraulic lifts are inexpensive to install than other elevator types.
- ▶ They occupy less space in a building, requiring almost 10% less area for the lift shaft.
- ▶ They are highly effective with heavy loads as the hydraulic power provides great lifting strength.
- ▶ There is no need for an overhead machine room.
- ▶ Similarly, overhead structural requirements aren't needed either.
- ▶ Long term support.
- ▶ No need for long over heights.

Hoistway Sizes

Person	Capacity KG	Shaft - W C	Shaft - D D	Car - W A	Car - D B	Minimum Pit
3	225	1300	1300	800	900	1600
4	300	1350	1450	850	1050	1600
5	375	1500	1500	1000	1100	1600
6	450	1600	1550	1100	1150	1600
8	600	1600	1800	1100	1400	1600
10	750	1700	1950	1200	1550	1600
12	900	1800	2050	1300	1650	1600
15	1125	1800	2400	1300	2000	1600
20	1600	1900	2800	1400	2400	1600

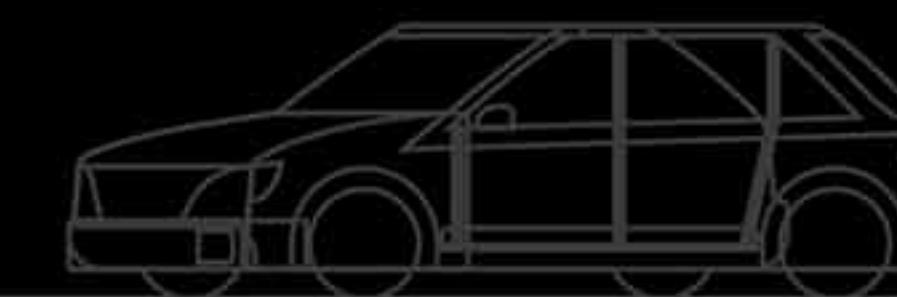
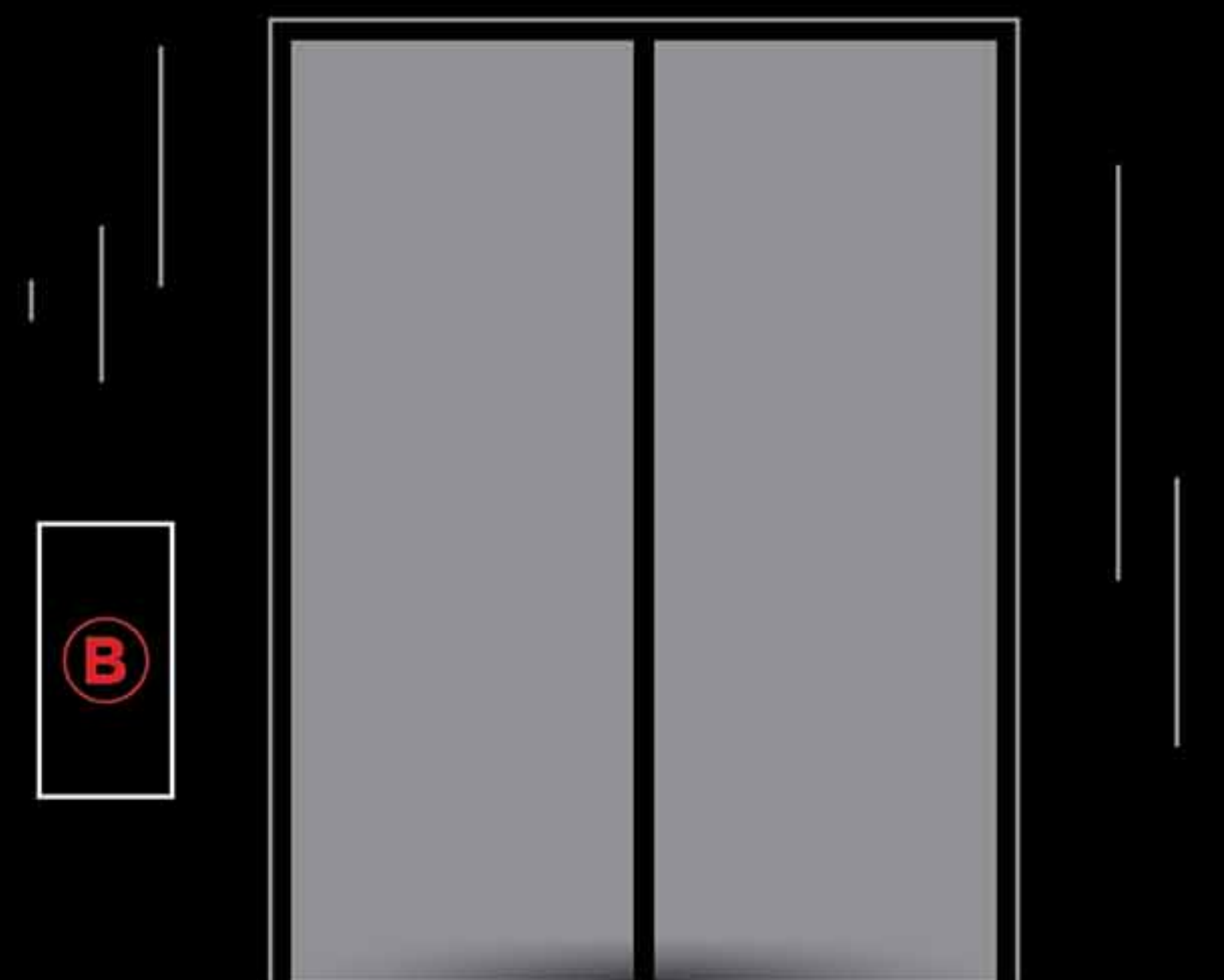




# BUILDING UP THE ACCURACY



There is a difference between achieving success and repeating that success. Just as there is a big difference between giving accurate work and continuing it, and whether it is sales or service, we are always committed to maintaining that accuracy.







# RANGE OF DOORS

Doors play a vital role in terms of looks, convenience and mechanism. You just name it, we provide it. Whether in terms of various finishes or be it the elevations.

### AVAILABLE DOOR FINISH

- S.S. GOLDEN FINISH
- S.S. FINISH
- M.S. FINISH
- ROSE GOLD FINISH



▶ Glass Door



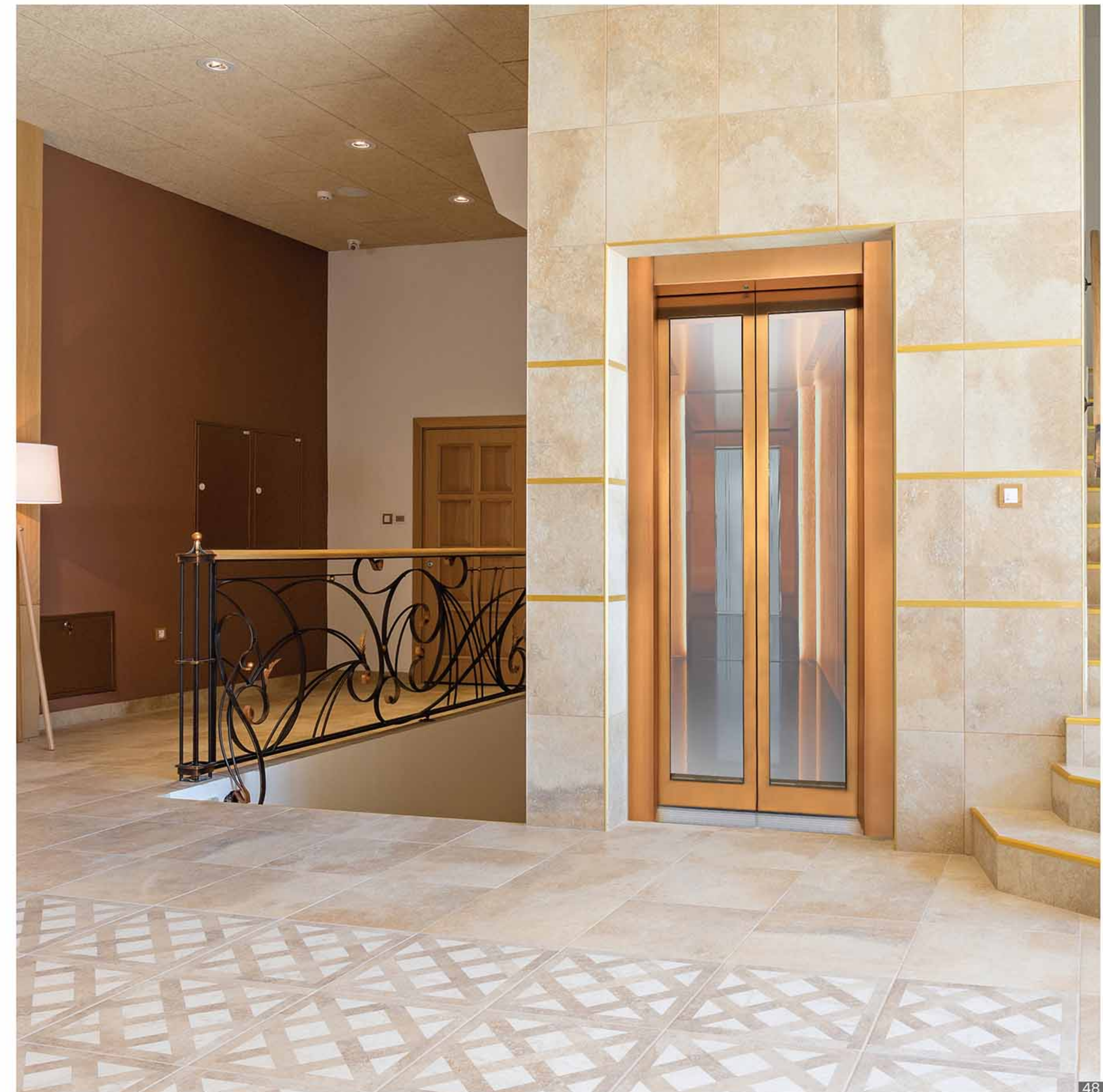
▶ Big Vision Panel Door



▶ Small Vision Panel Door



▶ S.S. Telescopic Opening Door (SIDE OPENING)







# 6 PANEL DOOR OPERATING ELEVATOR

Panel specifies the space specifically when the elevator offers a huge space. As you can refer to the images, we have a wide range of panel operating elevators.

### AVAILABLE DOOR FINISH

- S.S. GOLDEN FINISH
- S.S. FINISH HAIRLINE
- M.S. FINISH
- ROSE GOLD FINISH



▶ S.S. CENTER OPENING DOOR



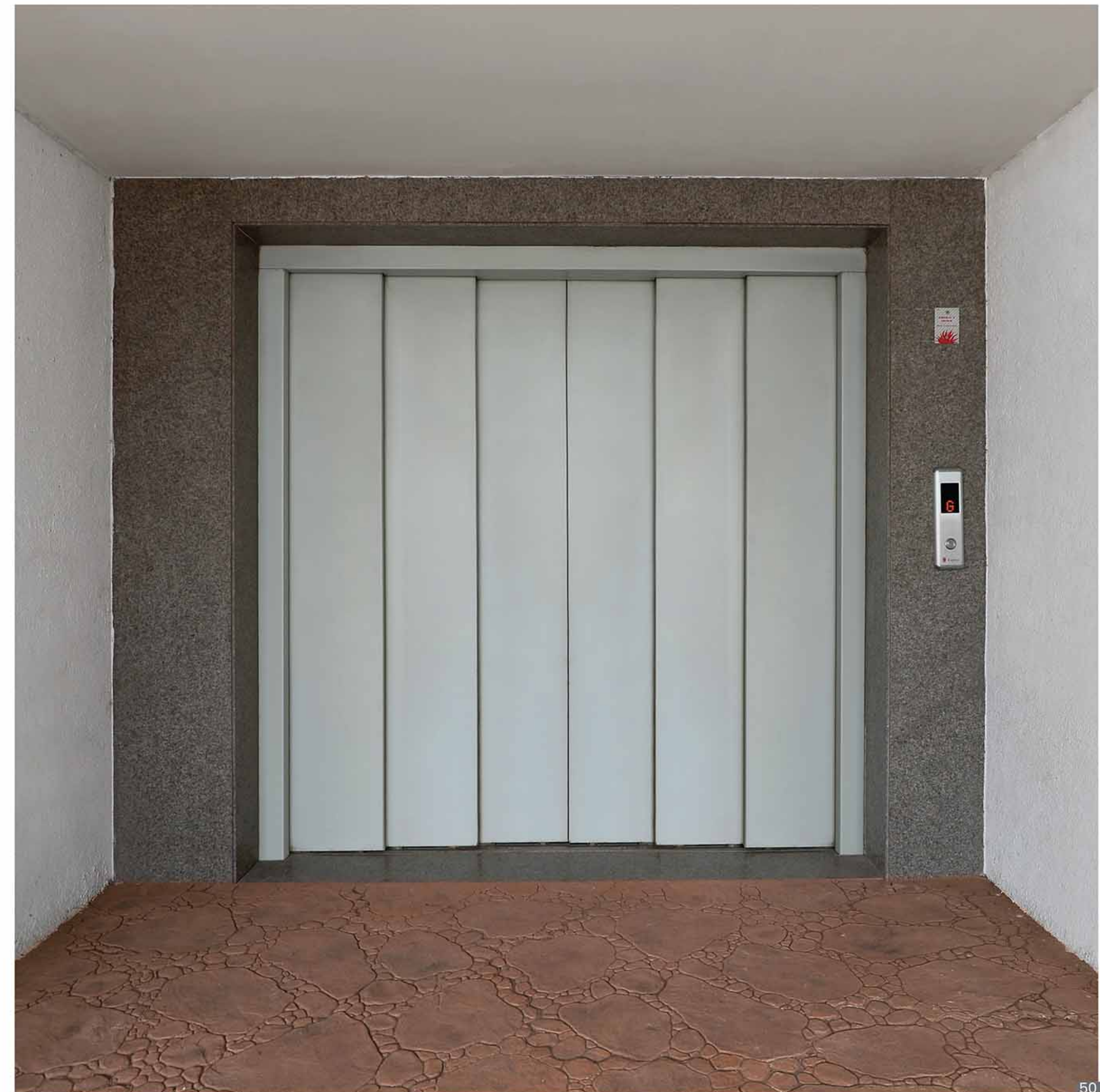
▶ M.S. AUTO DOOR



▶ 4 PANEL



▶ DESIGNER AUTO DOOR

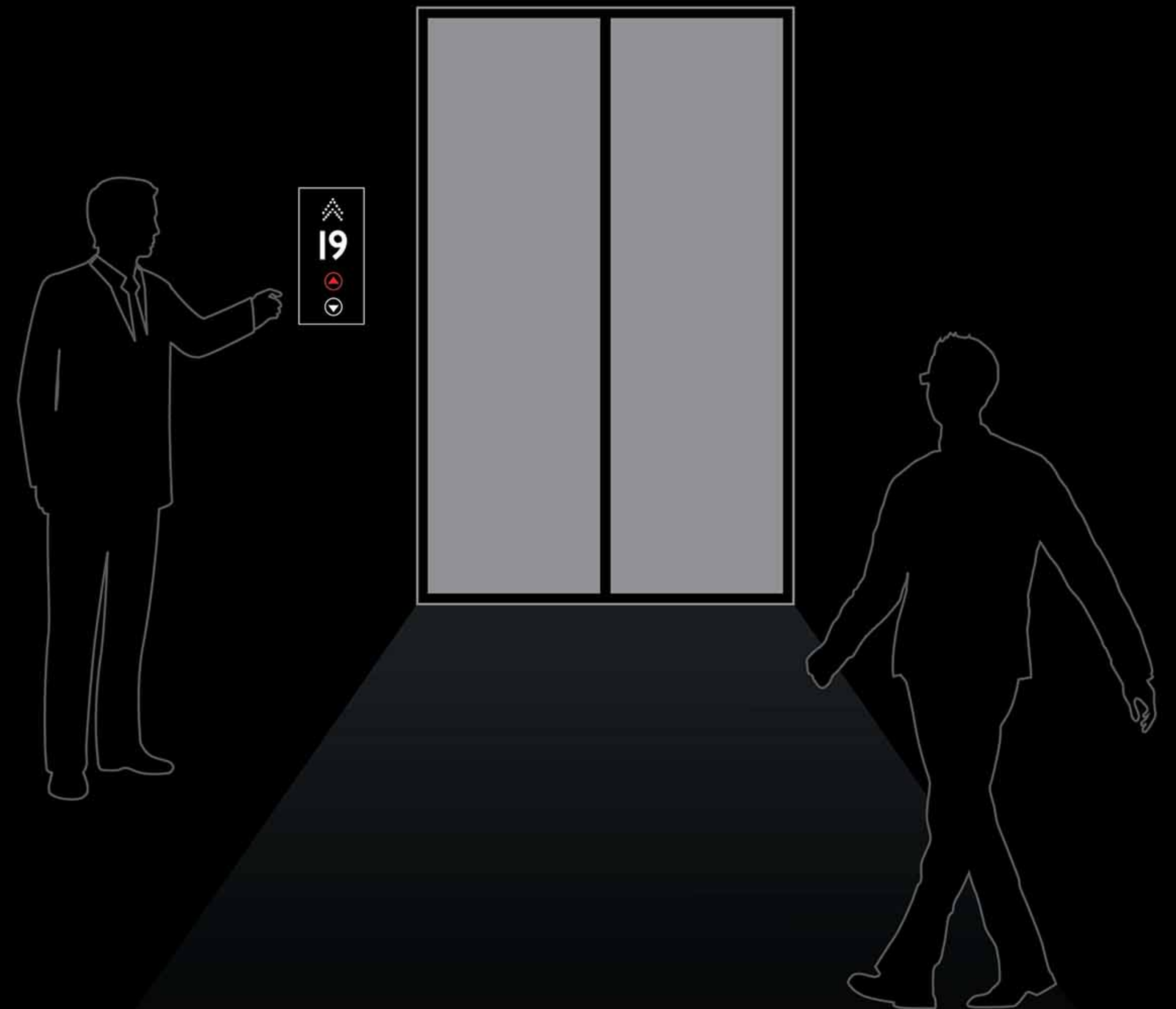




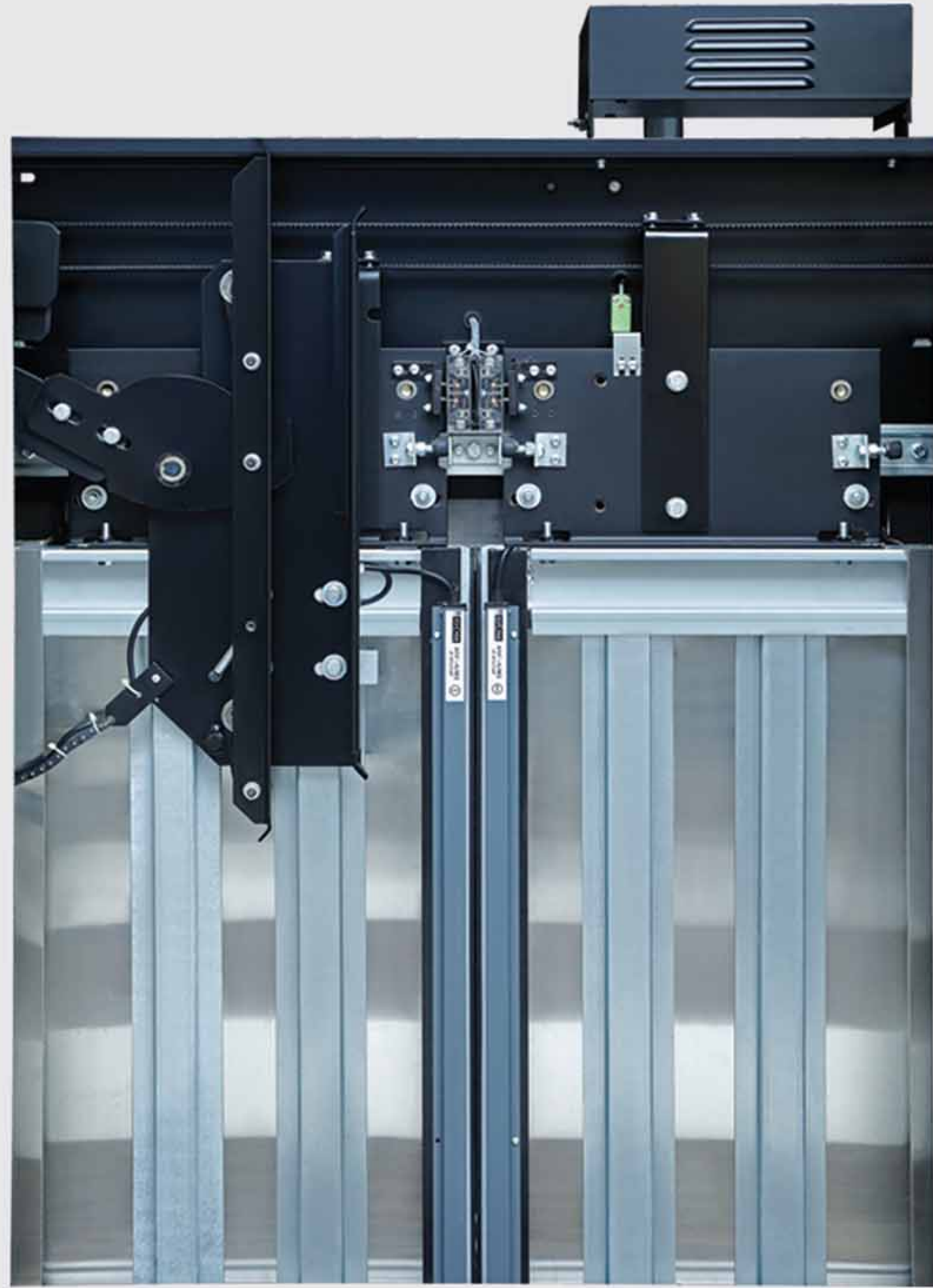
# FIGURING OUT SPACE



After all, a lift is all about space and we keep on figuring out the space of convenience for our customers. So that whenever they use it, we get recalled.







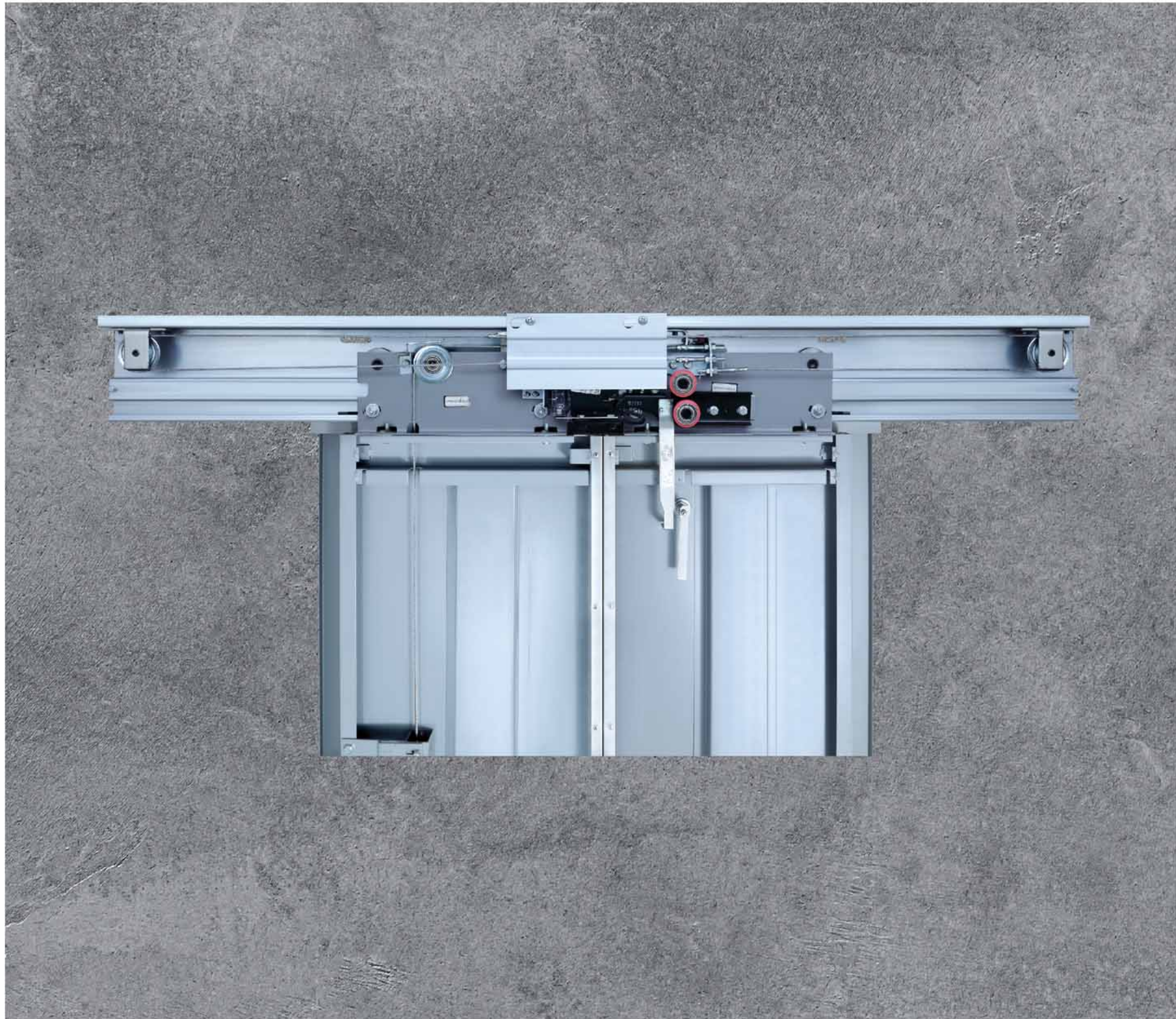
## CAR OPERATING DOOR HEADER MECHANISM

- Using PM motor, large rotary torque, high efficiency, energy saving.
- Using motor synchronous with direct drage mode to transfer torque, more compact design.
- Strongly comfortable feelings of adjusting speed, achieve the completely closed loop control of the torque, speed and position.
- Using asynchronous skate door clutch; car frame and cartop installation.
- Door operator load weight < 200 kg, voltage 200-250v, 50/60 Hz



PMSM CAR HEADER MOTOR





## LANDING OPERATING DOOR HEADER MECHANISM

- Its landing door locking devise has passed 1 million times of life test with CE Certificate : Mechanism has passed 45 kg pendulum impact test.
- Using weight drop door close mode, the weight drop and guide rod are placed in the inner side of door panel, when there is a glass panel, the weight drop is beside the door panel.
- Door panel unlocking mode or door frame unlocking mode.
- Door locking contactor voltage : AC 110 V, DC 220 V
- Can be with glass door panel.

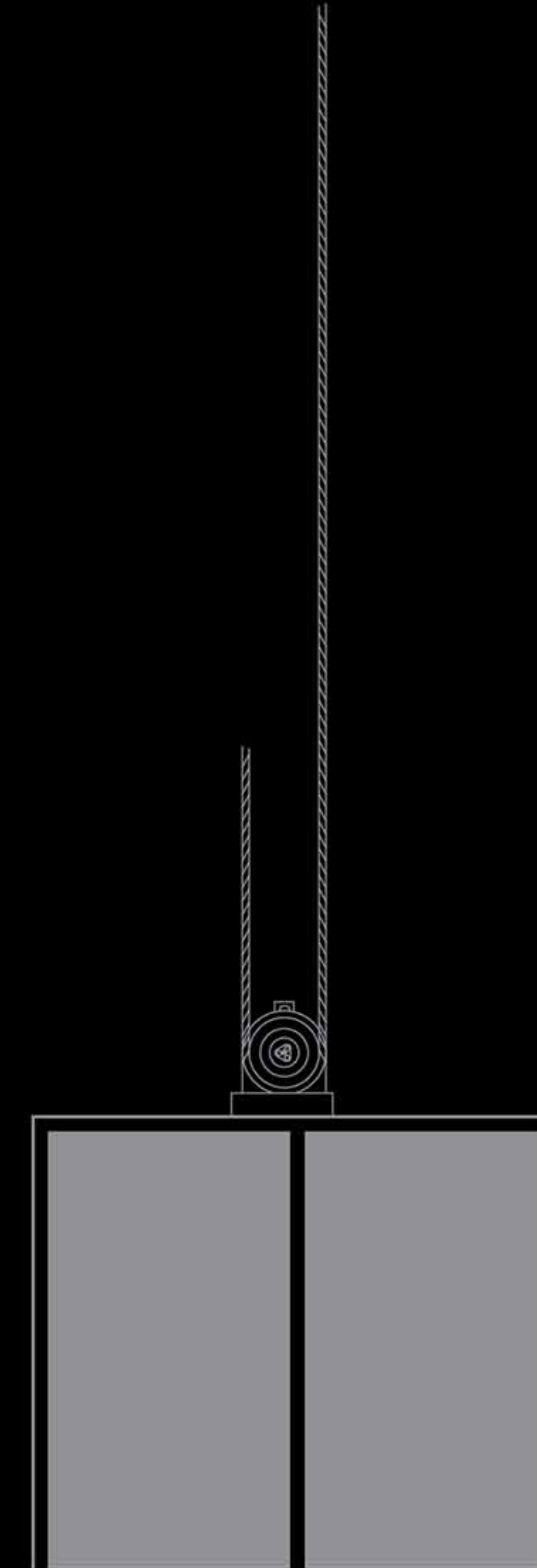




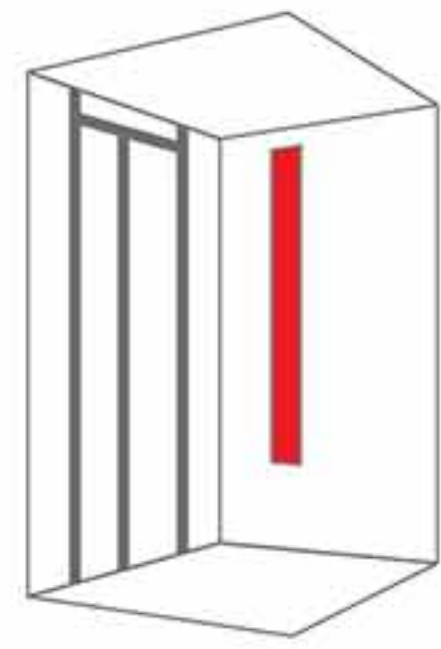
# ROPING THE JOY TOWARDS YOU



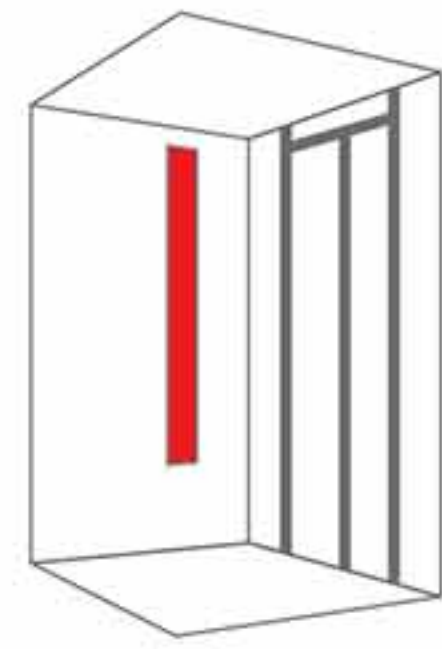
Whether it's installation or through sales and services, our only joy is to rope the joy of satisfaction and we are sincerely thankful to our technicians who keep on boosting our morale.



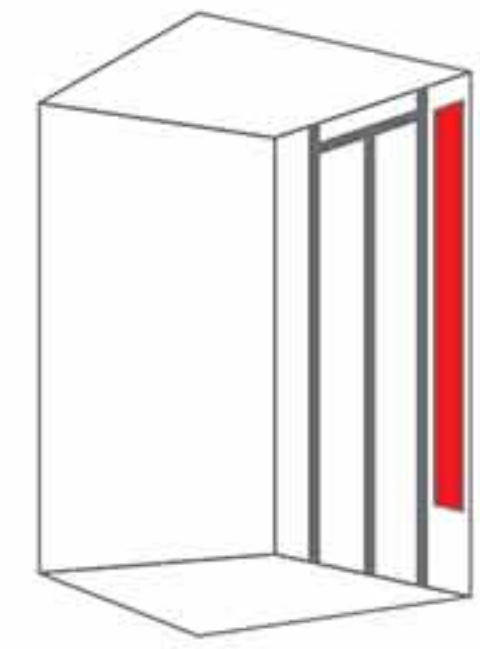




FOR SIDE WALL

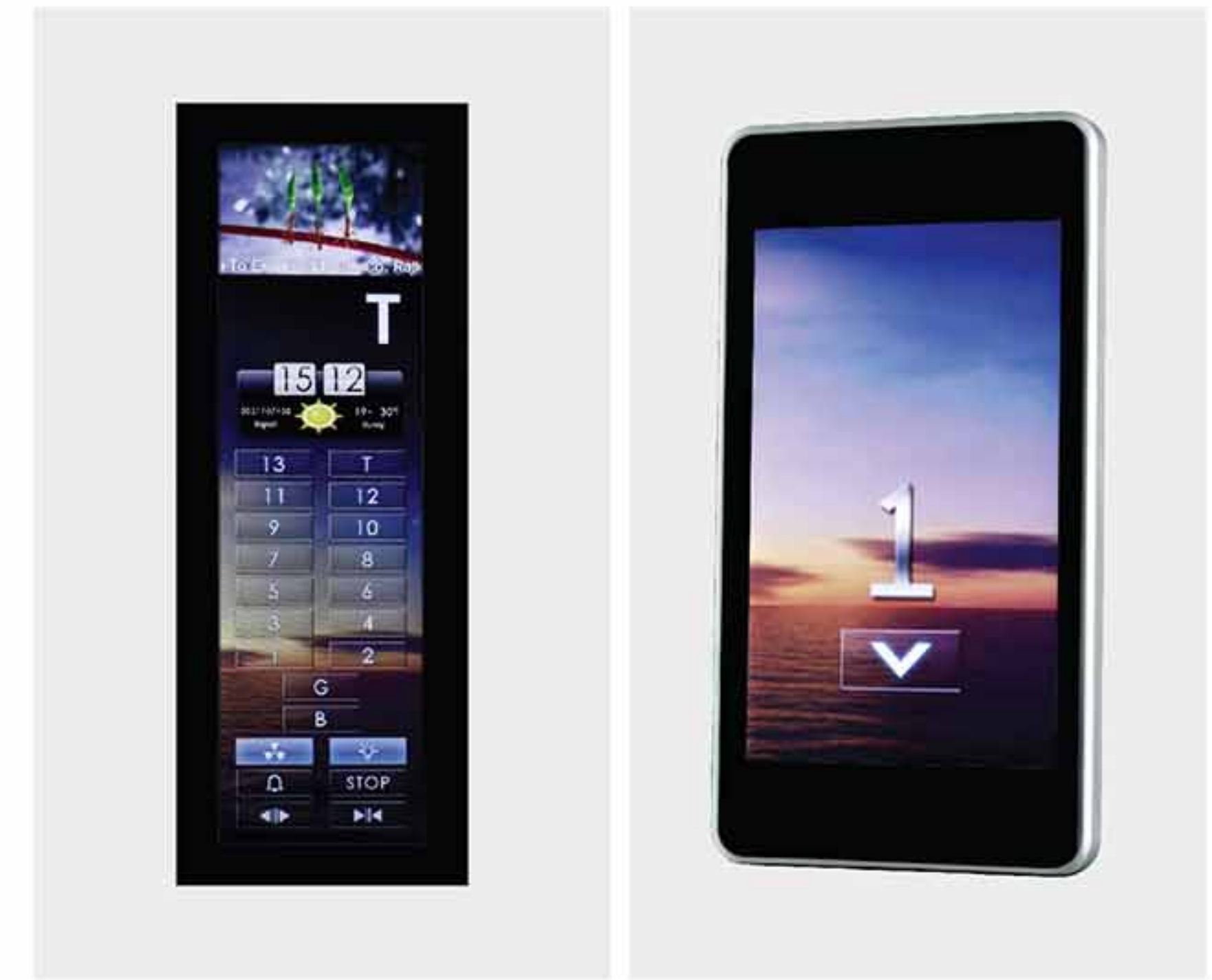


FOR FRONT WALL



# CAR & LANDING OPERATING PANEL

The area of a passage next to the elevator, floor or balcony that gets used to acquire or to emit passengers are called landing and landing operating panel is used to give instructions to landing calls and COP is to assign car calls.



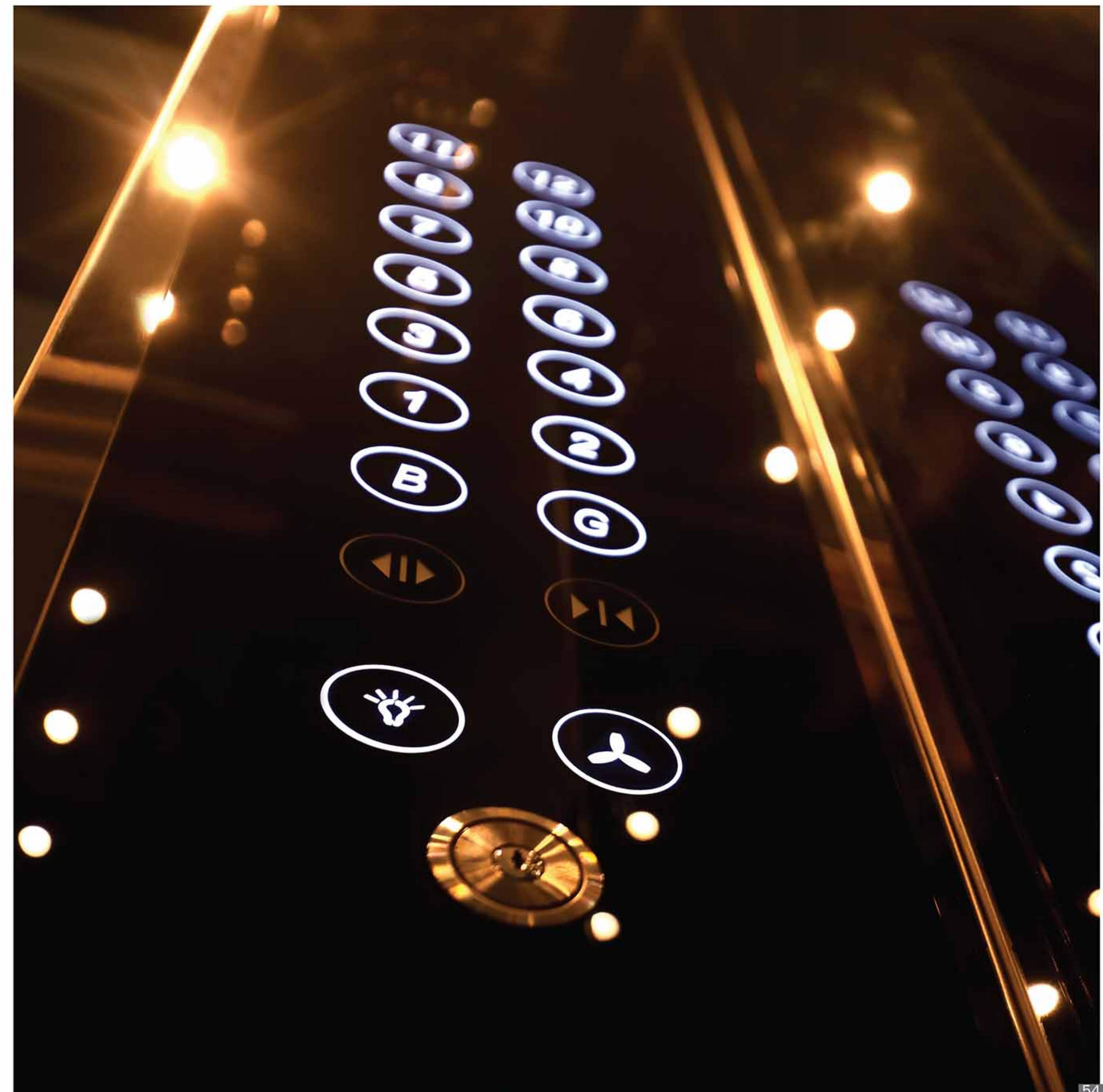
▶ G Touch Black Box Mount

▶ G Touch Black Surface Mount

▶ G Touch White Box Mount

▶ S. S. Matt With Tactile Button

▶ S. S. Matt With Tactile Button Premium







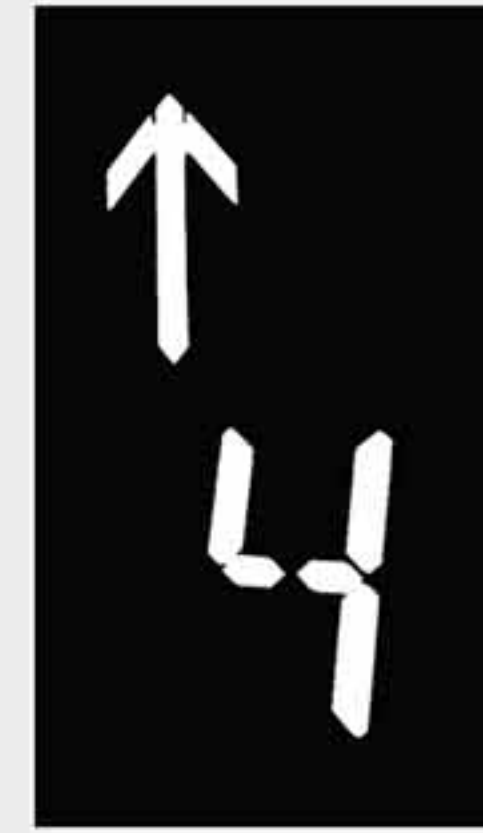
### WIDE RANGE OF DISPLAY SELECTION



▶ 4.3" TFT



▶ DOT MATRIX



▶ 16 SEGMENT



▶ 7" TFT



▶ 7" TFT



▶ E - Touch Landing



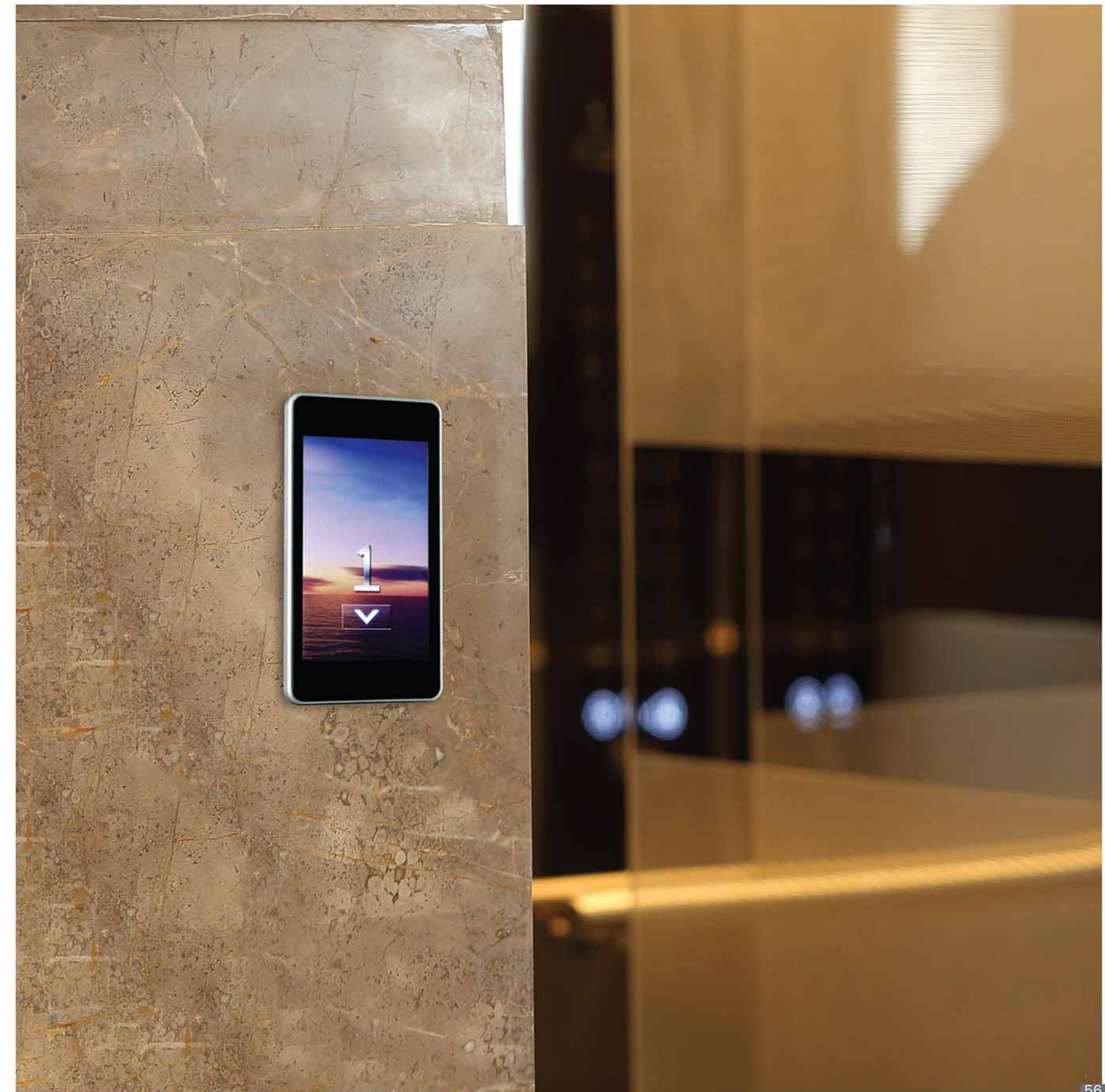
▶ Full Touch COP



▶ E - Touch Glass Panel

## LANDING OPERATING PANELS

Not just the world, the era of elevators has also got digitized. From starting with TFT, Dot Matrix, 16 Segments and now the journey has reached up to E - Touch & E - Touch Glass Landing Panels.

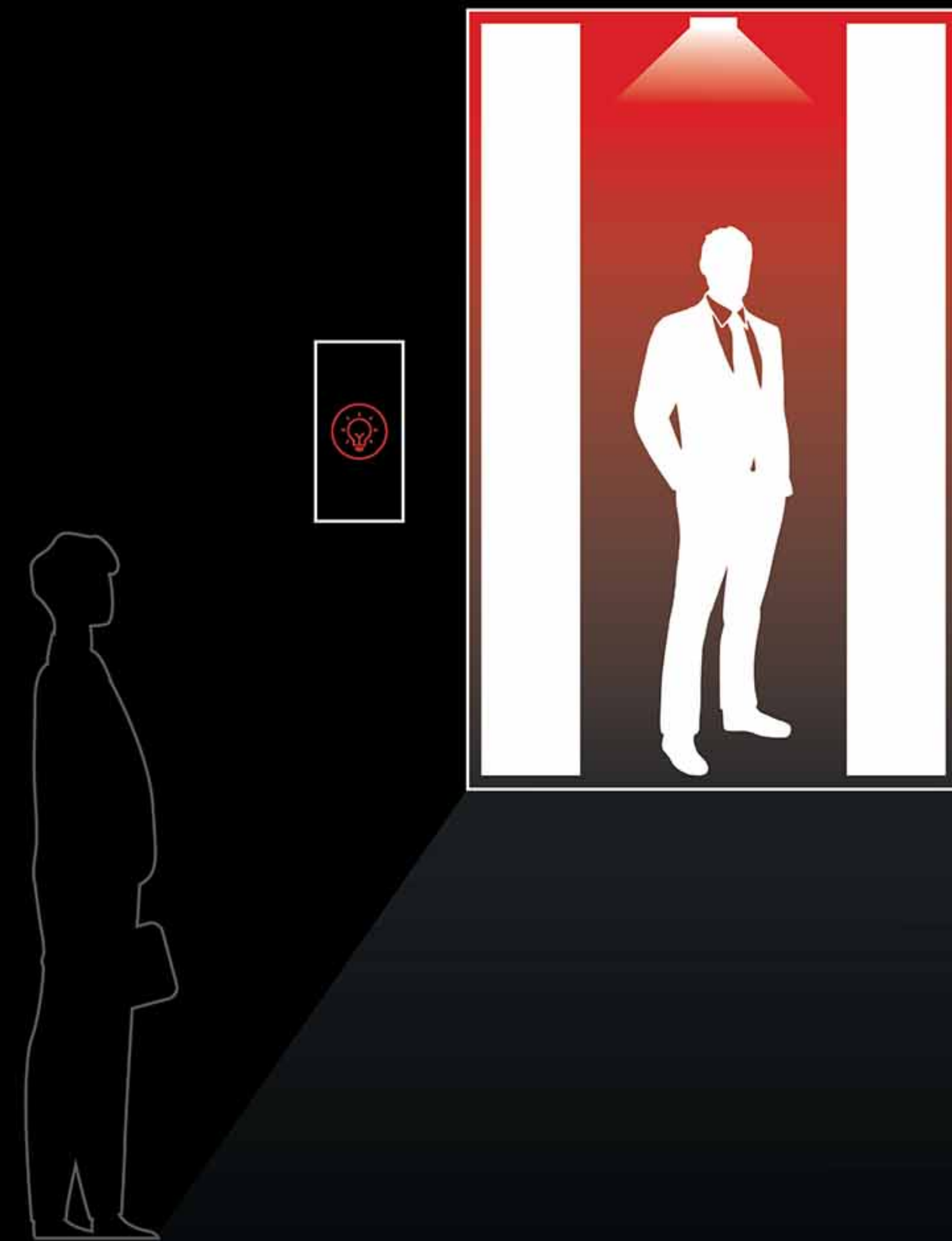




# ENLIGHTENING SCOPES



Via manufacturing elevator, we want the people of the village to experience it just as the civilians of cities do. So that we can all move forward together towards an era of motion.







AVAILABLE FINISH

S. S. HAIRLINE | M. S. POWDER COATED | S. S. GOLD WITH WOODEN FACE | S. S. BRONZE

# DESIGNER CAR'S

The concept of inner beauty doesn't just apply to humans, it applies to Elevators too. **Express Electro Elevators Co.** offer so many designs of cabin which enhances the inner attraction and identity.



▶ M. S. POWDER COATED



▶ S. S. HAIRLINE



▶ S. S. ATLANTA



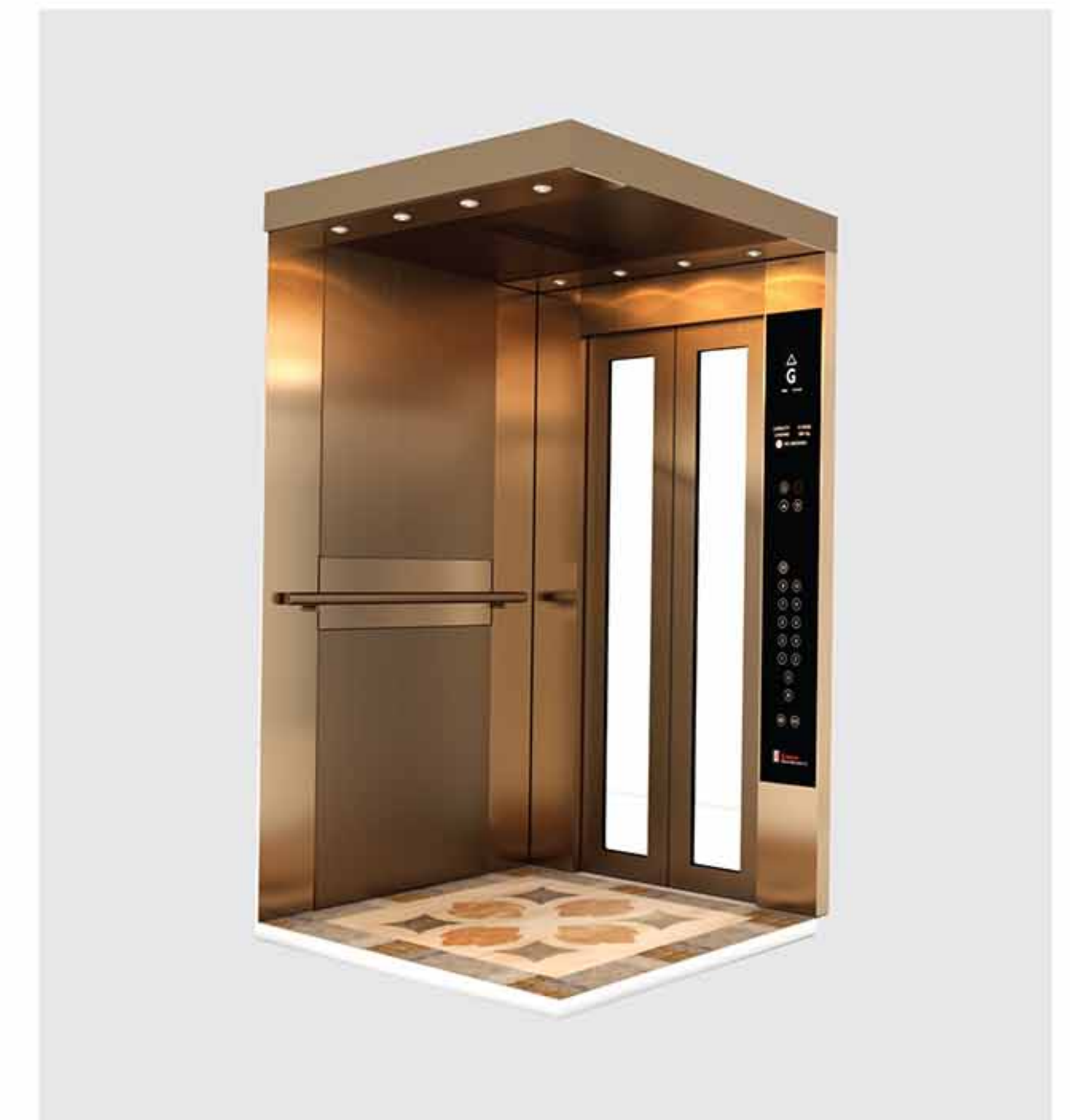
▶ S.S. BRONZE HAIRLINE FINISH



▶ S.S. HAIRLINE FINISH



▶ S. S. GOLD WITH WOODEN FACE



▶ S. S. BRONZE





# INTEGRATED ELEVATOR CONTROL UNIT

Just as the whole human body receives commands from the brain, the controller is the brain of the elevator and keeps every action of the elevator throbbing. We have a wide range of controllers for homes, buildings, factories, etc. It requires a three-phase power supply.



## A Prevention Of Push Device Is To Reduce The Safety Hidden Trouble

When the elevator stops in non - leveling location due to the accident, it prohibits the passengers to use external force to open the car door because of panic, reduce the fall risk.



## High Security, Stable Quality

Strictly tested and certified in accordance with the highest standard in the industry, stable and reliable operation.



## Microcomputer Control System

Double 32 - bit microcomputer control board combine with a vector closed - loop control system, a circular communication system and a unique graph generator, make the dynamic response speed of elevator faster and more reliable.



## Serial Communication System

Using Pulse transfer signal, landing show and landing call only need four wires, greatly reducing the connection errors and production costs. Improving system reliability, being convenient to upgrade and change in the future.



## Unique Graph Generator

Make the elevator more smooth in acceleration, deceleration, braking process, improve the comfort and leveling accuracy, reduce the running time.





YOU WILL  
BE A FAN



Humans are a species that agree when they see an advantage in something. And whether sales or service, we always think for customers benefits. We work to make them our fans through our efficiency, and compatibility.







# HALL LARNING

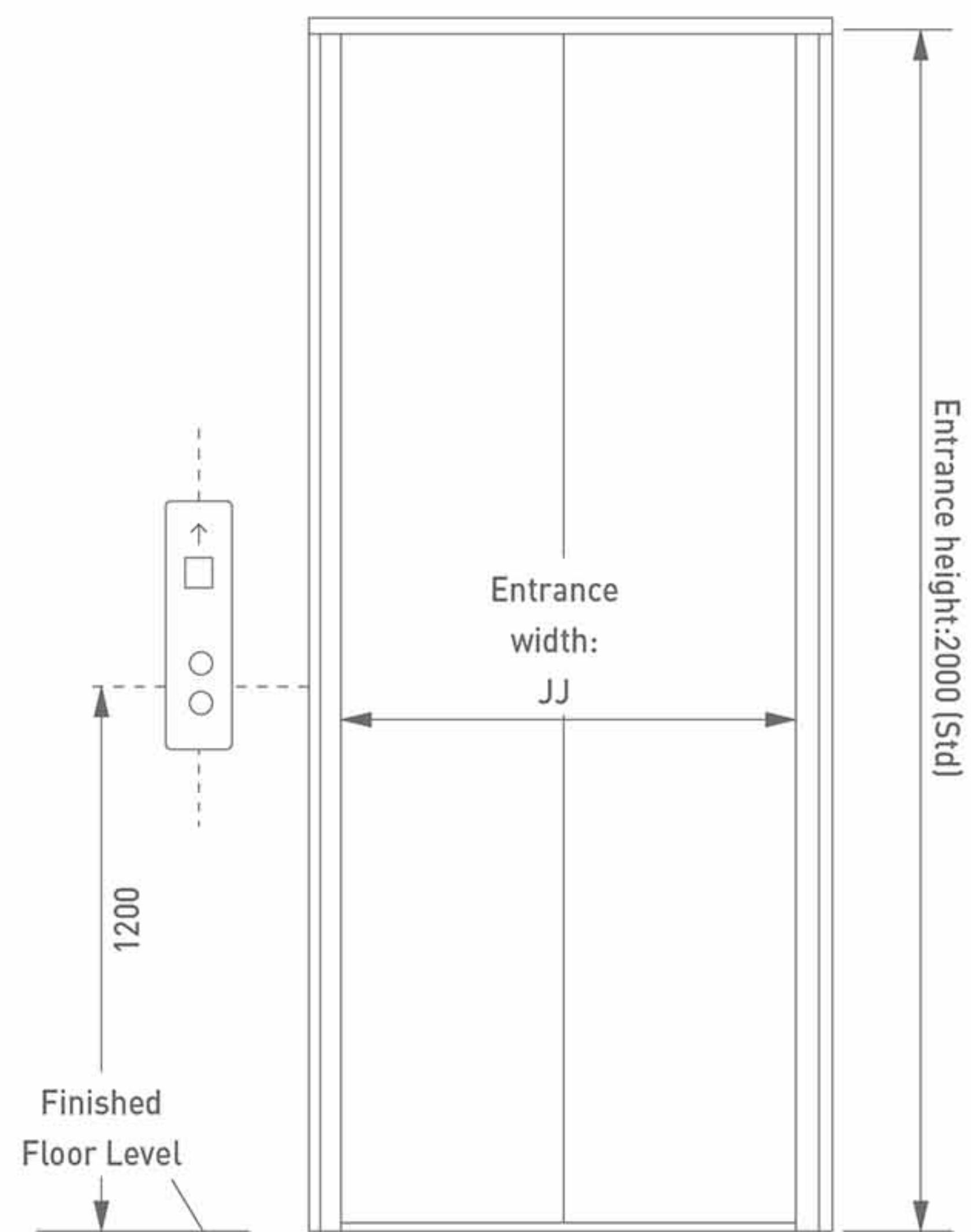
It's a device that gets fitted on the ground floor. If someone is waiting for an elevator in a passage, the elevator near you will come first and it will guide you and light emitting arrives so that before the elevator reaches the floor, you know which elevator is coming first.



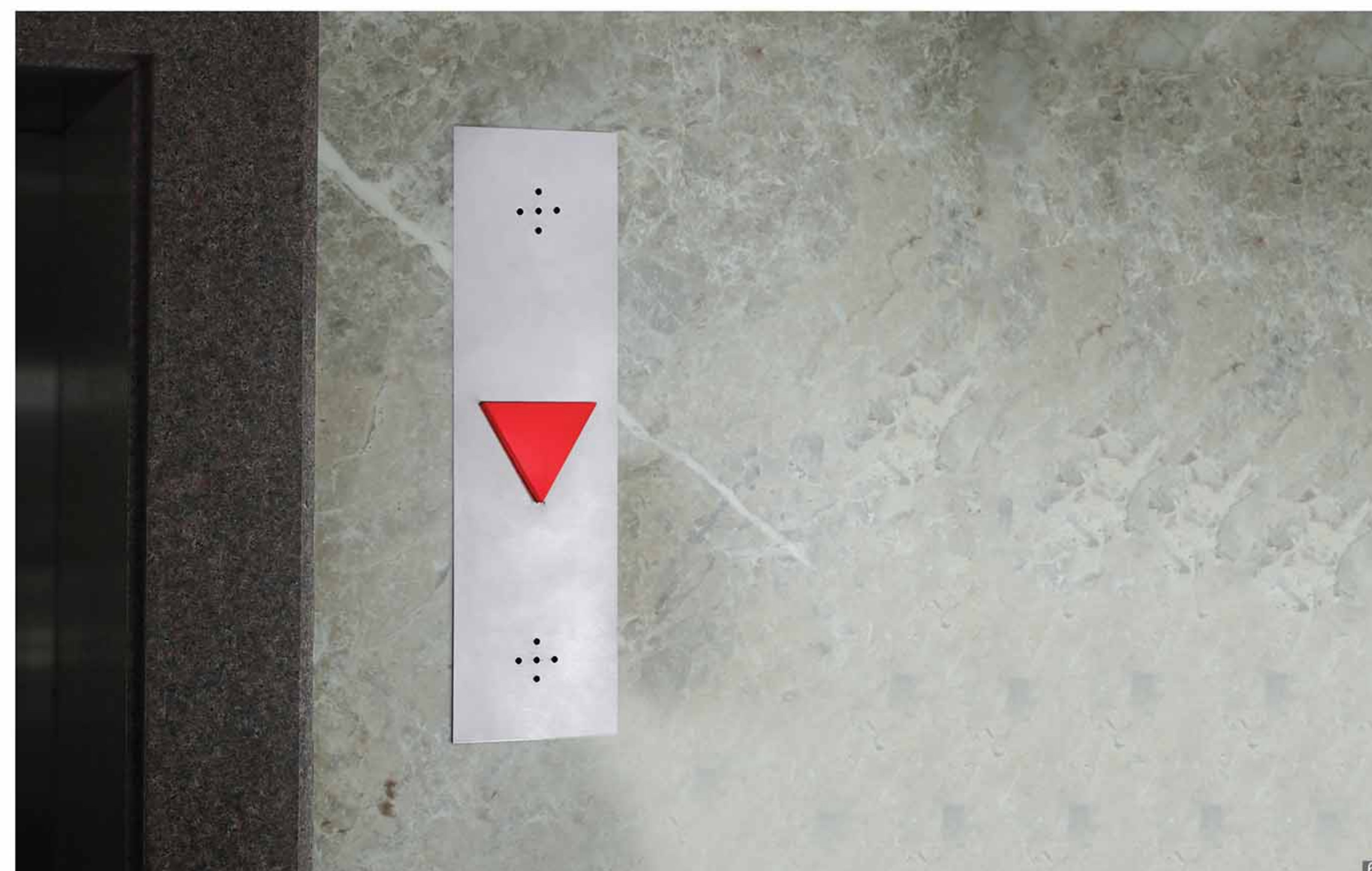
# BI - COLOR PUSH BUTTON

Colors always push us towards fascination and we deliver different variants of push buttons in terms of sizes and colors like Red, White and Amber.

### COLOR RANGE



Hoistway Entrance





## LOAD LIMITER DESIGNED



This machinery restricts the lift while getting overloaded. If it exceeds the capacity, the display shows a sign and along with that, the siren buzzes.



## MULTI BEAM DOOR SENSOR

Multi infrared light beams cover almost 1800 mm height of the door to detect passengers or any object while the doors close.



## EMERGENCY LANDING DEVICE



It's like a life jacket of an elevator, which saves the passenger from a difficult situation during a power failer. If the power cut happens, it lets you reach the nearby floor.

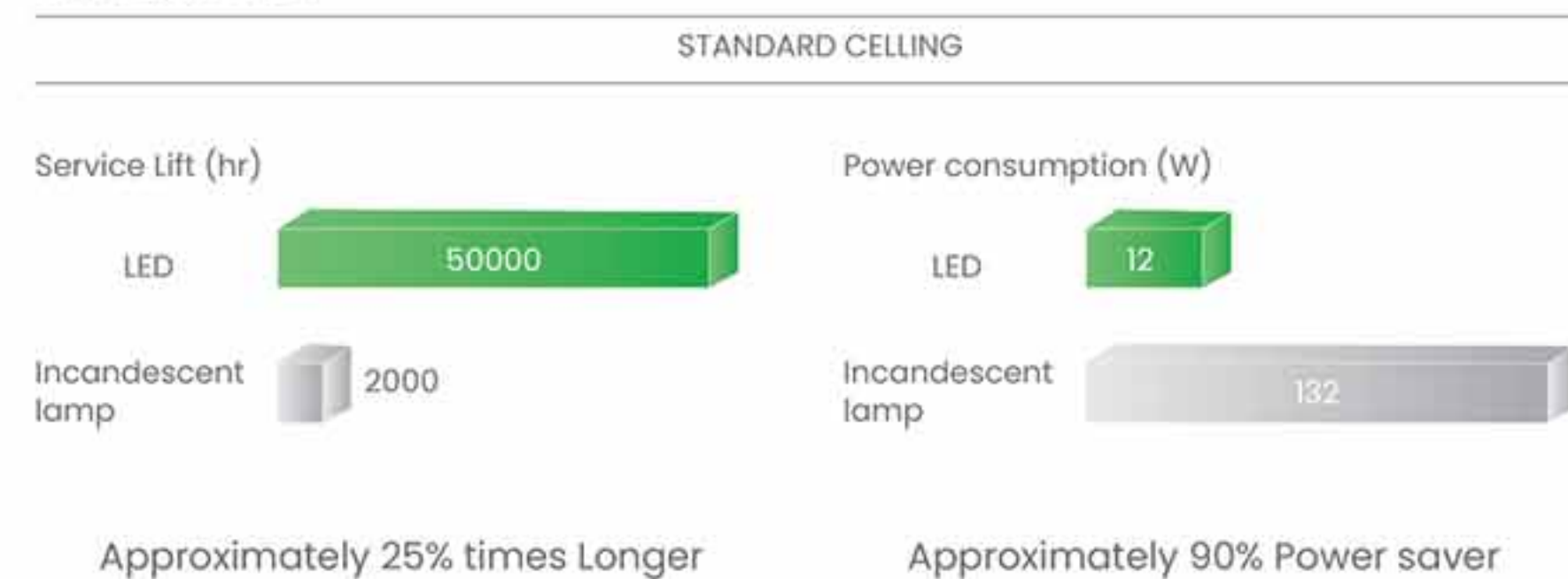
## SMD LED LIGHT



It offers long lasting life. Besides this, it draws fewer watt though it effectively brightens the elevators. Along with this, it conveys a decorative look to the elevator.



### Advantages of LEDs





# UNLOCKING BIZARRE SITUATIONS



If we recall the initial phase of lifts, we all might have experienced a few horrifying experiences. But over these years we have worked hard to bring you out from such bizarre memories with our timely updations.







When the first elevators were installed in the mid 1800's, passengers were probably not overly concerned about safety until Elisha Otis demonstrated his safety gear in 1852 which headed the new business of the elevator manufacturer, Milestones in the new business were the use of electric elevators by Siemens in 1880 and the Eiffel tower in 1889 which at 321 meters is still recognised as the symbol of Paris. The first generation of elevators used either water hydraulic or steam as their motive force and the travelling public were probably only too glad to move automatically up and down buildings rather than using stairs or ramps. Passenger comfort was not thought of as an important item for elevators. If you consider the motor car industry of that time the modern cars were open with no heating, were very noisy and very different from today.

The elevator industry and building owners remained stagnated in this position for over 100 years after Elisha Otis gave his revolutionary demonstration, in that elevator ride quality was not a major concern as it did not have an affect on sales or maintenance revenues.

It was not until the last quarter of the 20th Century did the concept of elevator ride quality start appearing in specification documents. The Japanese Elevator industry had basic ride quality

requirements in place during the early 1980's due to the cultural demands of the Japanese population. These Japanese concepts started to be incorporated into international building owners and elevator consultants specification with varying degrees of success. The ride quality requirements were being graded into **Principle** Standards of quality without specifying other Parameters and requirements essential for enhanced passenger perception for enhanced passenger perception to some elevator suppliers, manufacturers consultants and installers it was an easy way to increase some income without understanding the dynamics of elevator ride quality or what really was good or bad elevator ride quality in terms of human perception.

Crucially there was no accepted method of testing for elevator ride quality, at the simplistic and testing was by placing a coin on its edge in the centre of the car floor and driving the elevator up and down, if the coin did not fall over it was good ride quality. A more sophisticated approach on the same theme was to balance the coin on the car handrail.

To overcome these shortfalls some elevator consultants specification attempted to incorporate very detailed testing procedures using highly complex testing and recording instruments which recording instruments

which also required highly skilled technicians to operate keep the instrumentation in calibration and understand the data and results obtained. To enable a Worldwide method OG standardized elevator testing of ride comfort an ISC Standard for Lifts (Elevators) Measurement of lift ride quality ISO 18 738 was published in 2003. This went a long way to provide an international standardized method of testing and recording elevator ride quality, provided standardized terms and definitions, measuring instrumentation, evaluation of ride quality, procedures for measuring ride quality and reporting of results. ISO 18 738 crucially did not detail what is poor or good elevator ride quality.

#### Technical Specifications

The classification of elevator ride quality is a perception of the passenger, but technical specifications being produced by elevator manufacturers and elevator confusion, as sometimes they are without technical or commercial basis and it is doubtful that they bring added value to a project in terms of base commercial cost, reduced maintenance price, increased reliability or increased rentable value of a building.

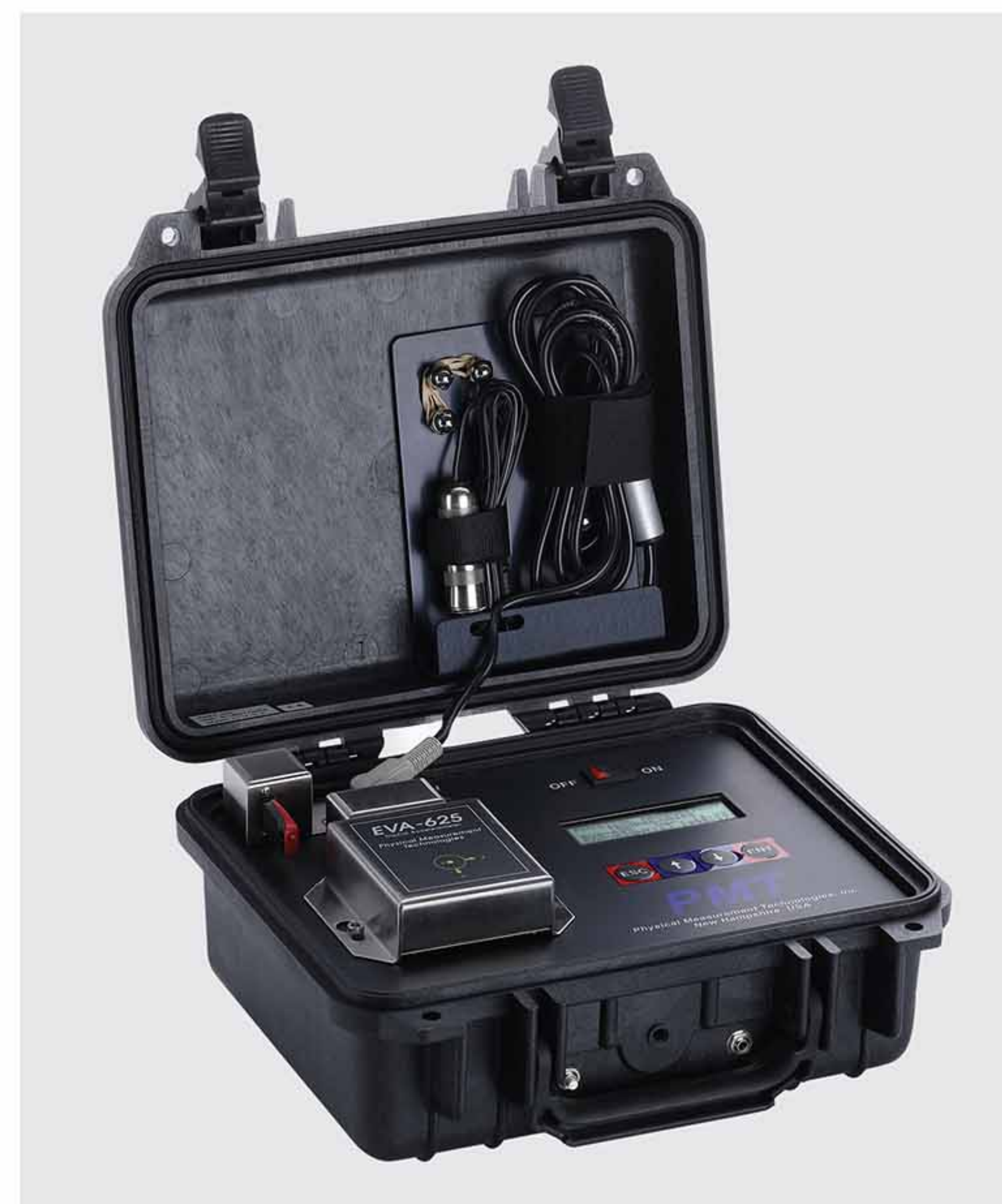
## ELEVATOR & ESCALATOR SYSTEM QUALITY CONTROL, DIAGNOSIS & INSPECTION

### Ride Quality Measurement & Analysis for the Elevator / Escalator Industry

Physical measurement technologies EVA - 625 elevator vibration analysis system and EVA vibration analysis tool software has quickly become the global standard for the measurement of elevator and escalator ride quality and vibration & sound. Designed to meet international standard for the recording and analysis of elevator and escalator vibration & sound, only the EVA system allows all elevators and escalators to be measured, analyzed and documented absolutely, easily and at a Very Low Cost. Through continuous refinement & enhancement, the EVA system remains the product of choice for the measurement and analysis of elevator/ escalator ride quality vibration & sound, while PMT has become the world's number one supplier of sign accuracy instrumentation for the vertical transportation industry.

### Elevator & Escalator System Quality Control, Diagnosis & Inspection

Elevator ride quality is a first indicator of quality design, installation and service. The EVA system includes powerful tools to assist quality improvement in all areas of the elevator mechanical and control system. The highly accurate response of the EVA system and the analysis capabilities offered by the EVA Vibration Analysis Tool software allows technician to engineering level personnel to rapidly identify problem areas and perform corrective actions. Only the EVA system provides the ability to measure the vibration & sound that people feel, hear and analyze the broad band vibration & sound that is the result of the function of all dynamic aspects of the elevator system. With a little practice, problems with roller guides, rail joints, motor control systems and other dynamic elements can be identified in minutes and repairs targeted precisely. Quality of installation and service can be improved dramatically. Because the simplicity of the EVA system and the information that is returned, the EVA-625 offers unmatched capabilities as an inspection and fast survey tool. The condition of the elevator can easily be compared year after year.



- ▶ Quantity Elevator/Escalator ISO 18:08 Ride Quality
- ▶ Measure Acceleration/Deceleration, Speed, Jerk
- ▶ Identify & Joint Management
- ▶ Diagnose Bad Roller Guides
- ▶ Document Pre/Post Modernization Changes
- ▶ Troubleshoot Sheave, Ropes, Count Weight
- ▶ Assess Drive & Controller Function
- ▶ Document Elevator Performance
- ▶ Year to Year Elevator Operation Comparison
- ▶ Escalator Step index (W/IMD-1)
- ▶ Optional Flash Drive Storage

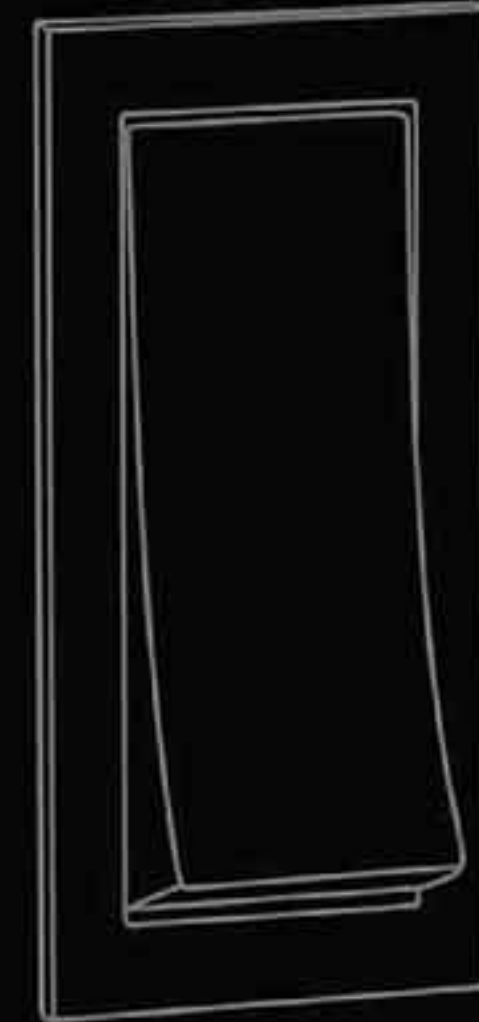






## GET OVER THE SHOCKS

In life, joyful shocks are fine but if you want to get away from electric shocks while using electric equipment or while pressing any switch, kindly note that your hands should not be damped.





## ROLLER GUIDE SHOE

- Can be placed on both cars and counterweights frames, for medium and high-speed elevators up to 2,000 FPM (10.0 m/s).
- Roller Sizes from 3" to 12" (80-300mm)
- All rollers are separately spring-loaded ensuring maximum ride comfort.
- Uniform design concept - optimized for its field of application.
- Suitable for T-Profile guide rails only.
- Experienced technology for an absolute smooth ride.
- Roller guides are pre-assembled and adjusted for installation.

Roller Guides applied to the four corners of the car and counterweight frames to minimize vibration and create a smooth ride along the guide rails and limits overall travel to prevent unintended safety actuation.

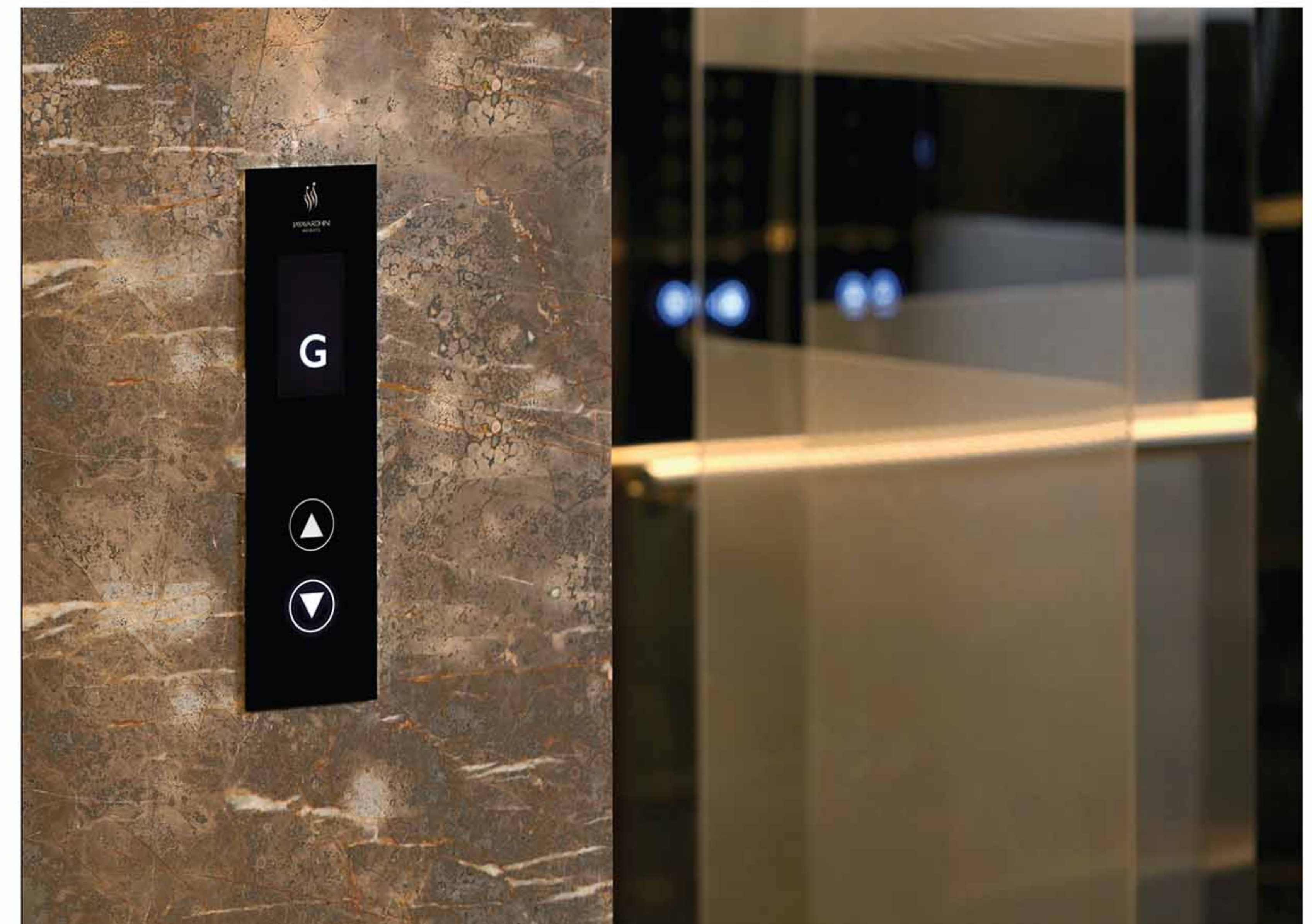


### STANDARD FEATURES

- ▶ Emergency Bell With Switch
- ▶ Emergency Car Lighting
- ▶ Door Sensor Safety Diagnostic
- ▶ Repeated Door Close
- ▶ Door Nudging Messeng
- ▶ Multi Beam Door Sensor
- ▶ Safe Landing
- ▶ Continuity Of Service
- ▶ Car Call Cancel Reverse
- ▶ Car Fan Shut Off Automatic
- ▶ Car Light Shut Off Automatic
- ▶ Backup Operation For Group Control Microprocessor
- ▶ False Car Cancelling
- ▶ Strategic Overall Spotting
- ▶ Emergency Stop With Switch
- ▶ Voice Guidance System

### OPTIONAL FEATURES

- ▶ Automatic Rescue Device
- ▶ Duplex, Triplex, Elevator Group Controller
- ▶ Overload Holding Stop
- ▶ Car Arrival Chime
- ▶ Fire Emergency Return
- ▶ Car Arrival Chime - Hall (Landing)
- ▶ Inter Communication System
- ▶ Auto Attend, In Car







## SALES & SERVICE NETWORK



Our actual test starts after selling the product when the service part starts. And we are proud to say that due to the tireless efforts of our entire team and unprecedented customer response, today we have become the first choice among the whole Saurashtra region and most of the cities of Gujarat.

## SERVICES

In our field, our true responsibility begins only after the product gets delivered to the customer because service is the most demanding task in the case of elevators and not just service, we have to provide immediate service and we are proud that we solve any problem related to service in the city within a matter of hours. Along with this, we can resolve any queries related to out of town service on the same day.

### Head Office

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Opp. Jivrajani TVS Showroom, Kalawad Road,  
Rajkot - 360 005, Gujarat (India)

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