



ROCKSPEED ELEVATOR AND ESCALATOR CORP.

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ROCKSPEED ELEVATOR AND ESCALATOR CORPORATION

BASIC SERIES

· ESCALATOR · MOVING WALKS SERIES



ROCKSPEED



ROCKSPEED ELEVATOR AND ESCALATOR CORPORATION

Fuji Elevator Co., LTD. (hereinafter referred to as "Fuji Elevator Company") is a comprehensive enterprise integrating elevator manufacturing, sales and service. The company takes "Rapid response" as the core and "fast response within 2 hours, over- time compensation 200 dollars" as the standard, and provides customers with full cycle extreme service.

Fuji elevator company headquarters is located in Xi'an, China, the existing staff 496 people, including technology research and development team 95 people. With Japan Fuji Machinery & Electric Co., Limited. together, Fuji elevator company build only official Fuji brand-ROCKSPEED in China, fusion of Chinese Intelligent Manufacturing and Japanese technology. Products covers passenger elevator, home elevator, hospital elevator, panoramic elevator, cargo elevator, escalator, moving walk etc. more than 10 kinds of series and hundreds of specifications. Fuji elevator company is the global elevator industry manufacturers.

As the founder of "feltless elevator", Fuji Elevator has been sold to more than 80 countries in the world, including South America, North America, Middle East and Middle Asia, with the safety, quiet and smooth experience, leading the elevator industry to enter a new "feltless" era. Many world landmark buildings have chosen Fuji "feltless elevator" such as the Dubai Convention and Exhibition Center and the Ethiopian office building. Relying on the strong service system, Fuji Elevator Company will continue to adhere to the rapid response and extreme service to meet the needs of every customer, so that the "feltless elevator" will benefit every user.


20000+

Annual production elevators


2000+

Annual production escalators


20+

Elevator product series


50+

Elevator specifications



SCOPE & REQUIREMENTS

The Rockspeed series of escalators and moving walkways are crafted from high-strength profiles using rigorous, advanced technology. They follow the design concept of safety, quiet operation, and smooth performance, ensuring exceptional quality. These escalators and walkways are the ideal choice for modern shopping malls, airports, large supermarkets, shopping centers, and urban three-dimensional transportation hubs.



Smart system, carrying large passenger flows

Adopts microcomputer VVVF technology, dual CPU processors, and multiple safety designs to guarantee smooth and stable running; high strength profiles, which are with strong bearing capacity, to guarantee high transportation efficiency with large passenger flows. Over 20 safety protective devices also ensure a safe and reliable transportation.



Fine workmanship, beautiful and practical

Special surface treatment technology, anti-slip, anti-oxidation, and anti-rust; the appearance design with attention to details blends perfectly with the environment; it can flexibly adapt to the building layout and save precious building space.



Safe, quiet and safe

Ergonomic design, smooth and comfortable starting and braking; large roller handrail drive, low noise; unique rectangular square tube structure, strong load capacity, high stability and longer service life.

Escalator series

Applicable to

- Shopping malls and supermarkets
- Outdoor scenic area
- Urban three-dimensional transportation
- Club Venues

Production Range of Application

- Rising height $\leq 50000\text{mm}$
- Rate speed $\leq 0.75\text{m/s}$
- Tilt angle: 23.2° , 27.3° , 30° , 35°
- Step width: 600mm \| 800mm \| 1000mm
- Capacity $\leq 7300\text{P/hour}$

Moving walks series

Applicable to

- Airport and railway station
- City multimodal transportation
- Large scale supermarket

Production Range of Application

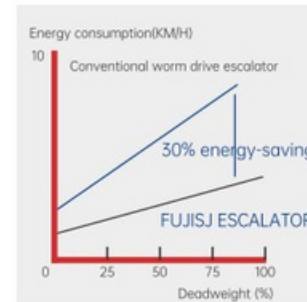
- Horizontal span $\leq 150000\text{mm}$
- Rate speed $\leq 0.75\text{m/s}$
- Tilt angle: 0° , 10° , 11° , 12°
- Step width: 800mm \| 1000mm \| 1200mm \| 1400mm
- Capacity $\leq 8200\text{P/hour}$

ESCALATOR

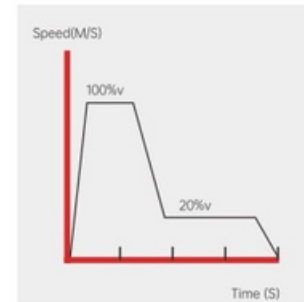
URBAN MASS TRAFFIC SOLUTION EXPERT

Inheritance and innovation, fusion of the concept of humanity supremacy, sophisticated stairway and lead road design, smooth and comfortable operation; solemn and round handrail entrance and traffic flow, etc., with a bright and dynamic feeling; handrails, inner and outer covers, skirts, and front panels The perfect connection and the turning transition of the handrail at the large arc end make it natural and handsome.

The escalator is widely used in airports, railway stations, high-end hotels, Central Business District (CBD), large shopping malls, public facilities and other places, adding a glorious landscape to modern buildings.



Efficiency comparison diagram between helical gear reducer and worm gear pairs reducer



Operation diagram of variable frequency specification



Advanced scientific research technology creates the highest quality

It is manufactured with internationally advanced technology and design concepts, and features smooth operation, low noise, durability, and easy maintenance. Its sophisticated structure, excellent stairways, exquisite guideways, and luxurious and beautiful appearance provide passengers with a bright and comfortable new feeling, allowing you to appreciate the extraordinary charm and luxurious style of modern architecture.

High efficiency transmission variable frequency and energy saving

High-precision, high-efficiency helical gear reducers are more efficient than traditional worm gear reducers, fully ensuring efficient use of energy.

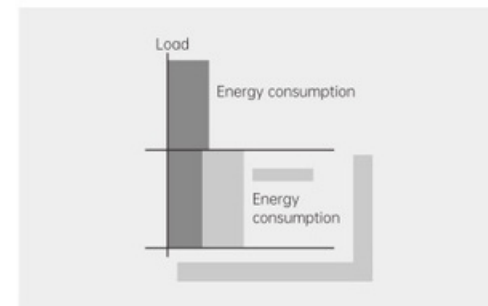
When operating in variable frequency specifications, there are multiple ways to detect passenger flow, and it automatically stops when no one is around, avoiding ineffective operation and saving electricity.



MOVING WALK

FASHIONABLE SHAPE BRINGS BETTER CARRYING EXPERIENCE

In colorful modern cities, in large supermarkets, public buildings, airports, exhibition centers, transportation transfer stations and other public transportation places, due to its own characteristics, it can not only meet the transportation problems of large flow of people, but also meet the needs of long-distance walking and transporting luggage carts, baby carriages, shopping carts, disabled carts, etc., so that people can feel like walking on flat ground when riding, especially when going up and down stairs when shopping, which greatly facilitates people's travel and shopping. Its convenient, fast and pleasant riding needs have become the preferred solution for large supermarkets, airports, exhibition centers and transportation transfer stations.

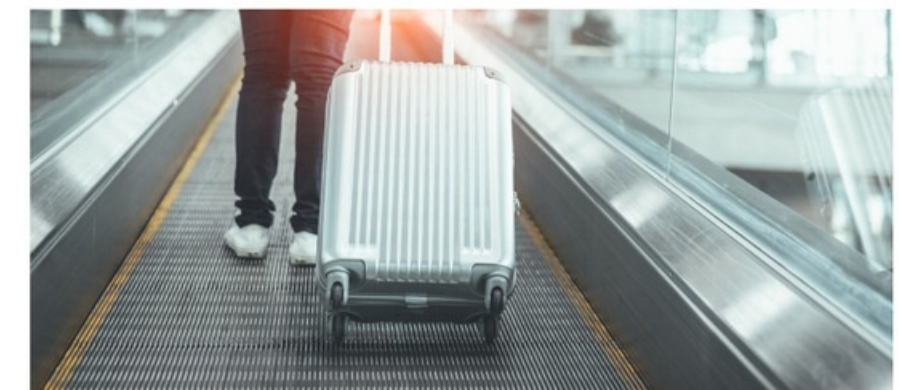


Energy-saving operation mode

Energy saving can be achieved by frequency conversion control or self-starting.

Compact structure and flexible

The pre-installed guide rail technology, mechanical system and compact design of the handrail drive system of the moving walkway reduce the size of the walkway and make effective use of the space in the building.

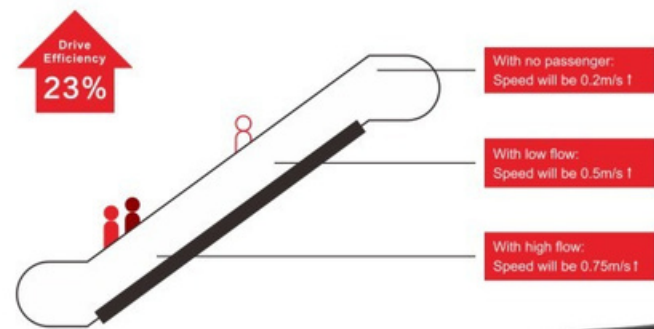


INNOVATIVE TECHNOLOGY

Three design highlights are adopted to improve energy utilization: intelligent variable speed control system, intelligent power management software, and highly integrated intelligent control system.

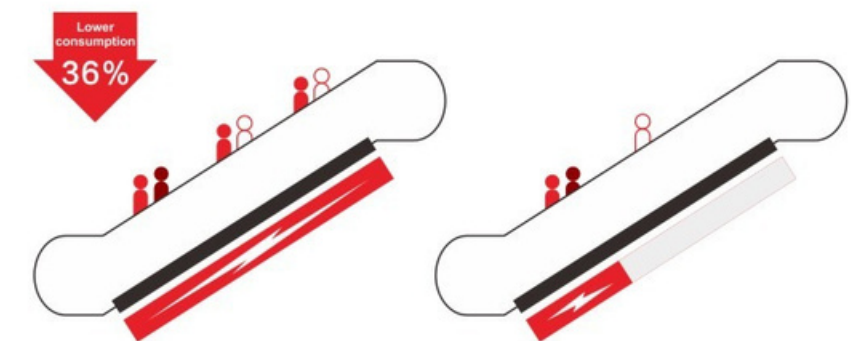
INTELLIGENT VARIABLE SPEED CONTROL SYSTEM

The intelligent variable speed control system can realize intelligent switching to provide corresponding speed operation, high efficiency, energy saving and environmental protection.



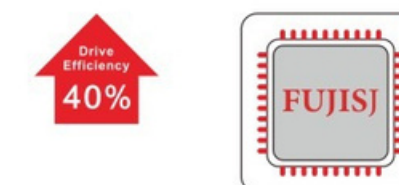
INTELLIGENT POWER MANAGEMENT SYSTEM

The intelligent power management system guarantees operation with a low-loss configuration when the number of passengers is reduced, and the energy loss can be reduced to 36% of the traditional escalator and sidewalk operation.



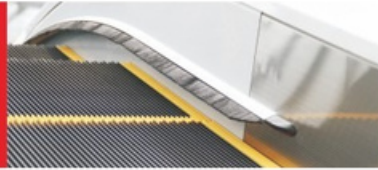
HIGHLY INTEGRATED INTELLIGENT CONTROL SYSTEM

The whole system adopts VVVF frequency converter, which can intelligently switch the frequency according to the speed and load requirements under the control of the microcomputer, which saves about 40% of energy compared with the traditional drive system.



STANDARD CONFIGURATION

01



Skirt panel brush

The skirt panel brush installed in the both sides of the skirt panel and the above of the step is to prevent the passengers' shoes crashing with the skirt panel. It can avoid something entering into the step safely and effectively.

02



Vertical type traction machine

It has the smooth engagement and the frictional reduction. It guarantees the extremely low noise. It can reduce more than 60% of the noise. Compared with the traditional worm wheel drive, it has the higher driving efficiency.

03



Handrail inlet

Novel, trendy and attractive design for the entrance and exit of the handrail belt makes the escalators more live and amicable.

04



Moving directions and failure display

By means of observing the digital readings on the displaying plates mounted on both sides of the skirts board at the entrance and exit of the escalator (or moving walks), the maintenance work can be made promptly and easily.

05



Inbuilt step chain-roller

The escalator is richly endowed with the intelligence and popularity by the novel, distinctive, elegant, tensile and modernized streamline handrail inlet and outlet design model. It appears to be more beautiful in the outer appearance. It displays the nobleness and imposing manner of the conveying constructions.

06



Step illumination

It has the smooth engagement and the frictional reduction. It guarantees the extremely low noise. It can reduce more than 60% of the noise. Compared with the traditional worm wheel drive, it has the higher driving efficiency.

07



Inspection running

Connect the maintenance box with the maintenance sockets in a controlling box located at either end of the escalator to realize inching operation for maintenance.

08



Emergency stop

Pressing the emergency stop button in the upper and lower inlet and outlet can stop the escalator/ moving walk running.

OPTIONAL CONFIGURATION

01



Running direction indication

The running direction and forbidden display mark have been placed in the inlet and outlet of the handrail obviously, reminding the passenger to take the escalator safely.

02



Automatic start/stop

The infrared ray sensor which is near the floor earth can detect the passengers who enter the floor and start running. After the passengers left the escalator, it will stop running to save energy.

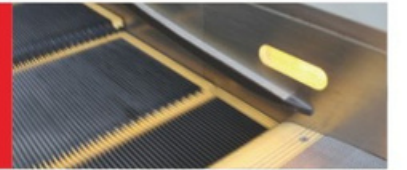
03



Handrail illumination

The handrail illumination is installed in the handrail support. The gentle light adds charm to the running escalator.

04



Comb illumination

The comb illumination installed in the both sides of the skirt panels is to warn the passengers to take care of the steps, which brings much more safety.

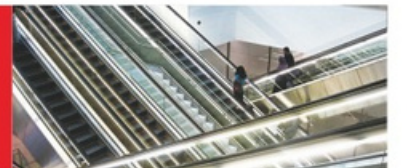
05



Skirt panel illumination

The skirt panel lighting along the step running track keep the elegant and beauty of the light during the running, and the visibility of the escalator in the whole building is emphasized, which bring more safety feeling to the passengers who are taking the escalator.

06



VVVF energy-saving system

The use of the inverter can reduce the energy consumption effectively. It can usually save energy up to 60% and decrease the peak current up to 80% in the occasion that there is not too much people. When it is no-load, the escalator will operate at a low speed. And it will run immediately at normal speed when it detects that there is people approaching.

07



Heating device

For the outer door escalator installed in the cold area, in order to prevent freezing which can damage the escalator components. Using heating device can protect handrail, steps, machine, comb panel and so on.

08



Energy conservation running mode

It can adopt VVVF control or auto-starting mode to save energy.

DECORATION SERIES

HANDRAIL COLORS

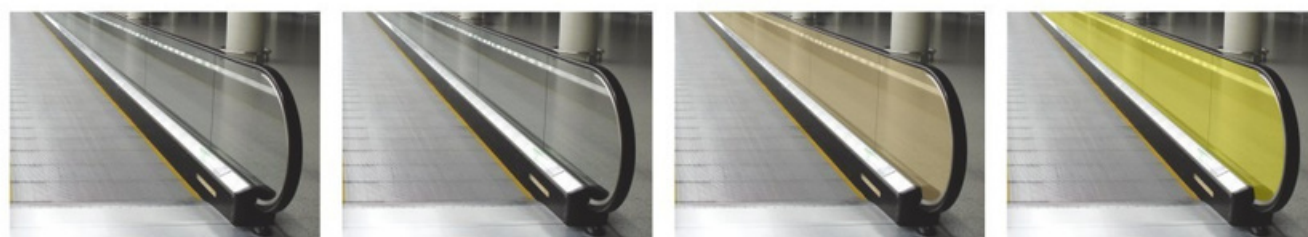


Black

Green

Red

BALUSTRADE PANEL COLORS



Colorless

Deep gray

Bronze

Yellow

HANDRAIL ILLUMINATION



White

Blue

Red

PERFECT LAYOUT

Intermittent arrangement (one-way traffic)

Suitable for operation between three floors in smaller shopping malls.

Continuous arrangement (one-way traffic)

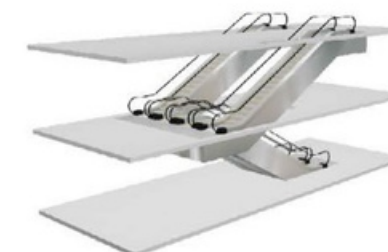
Continuous escalators or walkways connect several floors. They require more space than intermittent ones.

Parallel continuous arrangement (two-way traffic)

This separation is a little inconvenient for customers, but it is very advantageous for shopping mall owners because you can provide some special services to customers while they are changing escalators.

Cross-continuous arrangement (two-way traffic)

Escalators installed in a cross-continuous arrangement on multiple floors can serve two directions of operation. This form is mostly used in shopping malls, and is now increasingly used in government agencies and public places. It can reduce the running time between small and main floors.



FUNCTION TABLE

STANDARD FEATURES

Functionality	Functional explanatory notes
Phase loss and phase error protection	If the power supply is out of phase or wrong phase, escalator (moving walk) will automatically stop.
Motor overload protection	If the current exceeds 15% of the rated current, the operation will be stopped automatically.
Electrical circuit protection	Automatic circuit breakers are available to protect circuits and power components.
Handrail exit-entry guard	Automatically stops running when a foreign object is caught at the entrance of the handrail belt.
Comb plate safety guards	Automatically stops running when foreign objects are caught in the comb teeth.
Step collapse protection device	When abnormal bending of the step is detected, or the step chain roller and step roller falls off, the escalator will stop running before the step enters the comb plate.
Pedal sag protection	When abnormal bending of the pedal is detected, or if the step chain roller or pedal roller is dislodged, the moving walk will stop before the tread enters the comb plate.
Drive chain breakage protection	Automatically stops running when the drive chain is overstretched or broken.
Step chain breakage protection	Automatically stops running when the step chain is overstretched or broken.
Overspeed protection	Automatically stops when running over the speed limit.
Non-operating reversal protection	When the operation is reversed and the intended direction of operation is violated, the running will be stopped automatically.
Warning lines	Yellow warning lines are located at the front and sides of escalator step to remind passengers not to stand on the edges of neighboring steps and between steps and skirt panels.
Emergency stop button	When the button is pressed, it will stop running
Skirt panel protection	Automatically stops running when a foreign object is caught between the skirt panel and the steps (or treads).
Brake protection device	In case of normal stopping or malfunctioning of the elevator, it can be stopped within a safe stopping distance.
Inspection of safety switches	When this device is used for maintenance work, all other activation switches are inactive, effectively preventing unintentional operation.
Stairway Lighting	The upper and lower ends of the escalator and the lower part of the steps are equipped with lighting to remind the passengers to pay attention to safety.
Alarm activation device	Alarms sound when startup to remind passengers to pay attention to safety.
Handrail belt speed protection	Real-time monitoring of the running speed of the handrail to ensure synchronization with the running speed of the step to protect the safety of passengers. When the abnormal speed of the handrail is detected, the alarm system will be triggered immediately to stop the operation and remind the maintenance personnel to carry out inspection and maintenance in time.
Skirt panel Brush	Brushes between the skirt panels and the steps (or treads) so that passengers' shoes do not touch the skirt panel

Functionality	Functional explanatory notes
Inspection and maintenance of cover missing protection device	In normal operation or when the elevator is stopped, if the cabin cover is missing or not completely covered, the device can detect and immediately stop the operation and prevent the equipment from starting; when the cabin cover needs to be opened for maintenance work, the device can prevent the equipment from mistakenly starting the operation and protect the safety of the maintenance personnel when it is not operated into the maintenance mode.
Motor brake detection switch	Real-time monitoring of the working status of the holding brake, such as holding brake failure or abnormal opening, the control system will immediately stop the escalator running, send out a fault alarm signal, so that the maintenance personnel in time to maintenance and repair.
Step loss safety device	Preventing the risk of passengers falling in due to missing steps (or treads).
Additional brake(H≥6m, public transportation type)	Prevents further acceleration (over-speed) or operation in the opposite direction under abnormal conditions, realizing the forced braking function to protect the safety of passengers.
Anti-climbing devices and warning signs (English version)	To prevent people falling from climbing on the outside of the handrail to protect the safety of passengers; to protect passengers by communicating key safety messages and reminding them to regulate their behavior through warning signs.
Water level detection device (outdoor type)	Real-time monitoring of waterlogged of escalator and alarm alerts for waterlogged conditions protects escalator and personnel from electrical failures and mechanical damage caused by waterlogged of escalator.

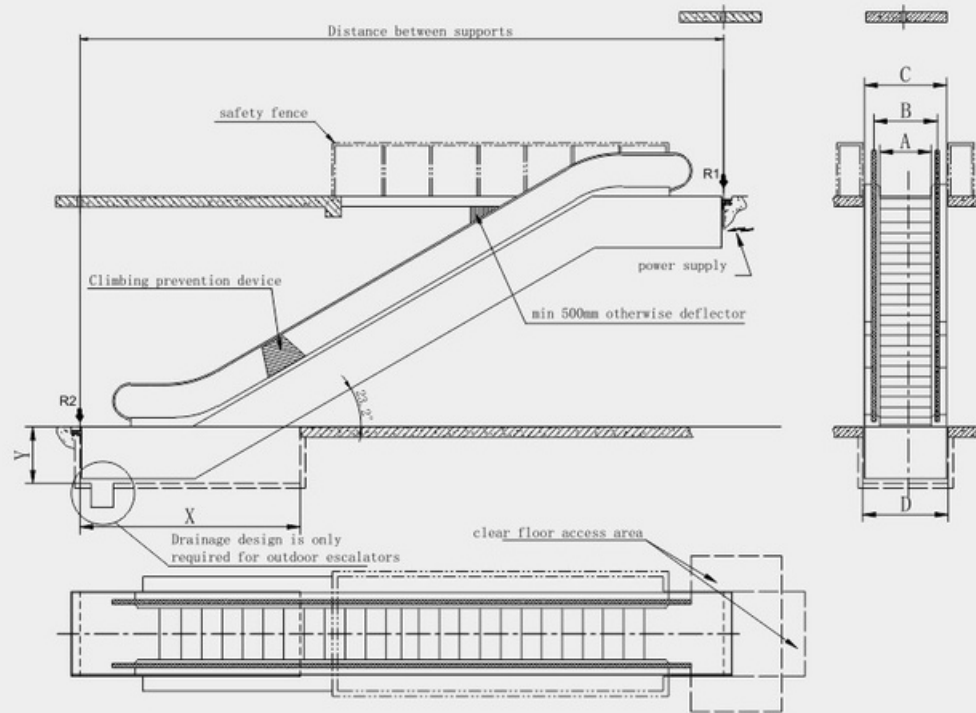
OPTIONAL FEATURES

Functionality	Functional explanatory notes
Aluminum steps (indoor type)	Indoor escalators can be equipped with aluminum alloy steps according to customer requirements.
Horizontal span non-standard length	Because the horizontal span of civil construction exceeds the standard design range, according to the site conditions, the design of non-standard lengthening or shortening of the rack structure.
Non-standard sectional mark-ups	Design of additional subsections based on the need for on-site turnaround and transportation.
Escalators increase the number of horizontal steps	Lifting height <6m, standard configuration of 2 horizontal steps; 6m ≤ lifting height ≤ 10m, standard configuration of 3 horizontal steps; according to customer demand to appropriately increase the number of horizontal steps.
Intermediate support	For horizontal span >15m, intermediate support is required, which can effectively reduce the deformation and bending of truss caused by gravity and keep the running process smooth. In places with large flow of people, the intermediate support can effectively reduce the vibration caused by frequent use and prolong the service life.
Skirt panel lighting	Increased illumination to protect passenger safety.
Handrail lighting	Increased illumination to protect passenger safety.
Intermediate emergency stop switch	Increased for horizontal span >30m, or optional for <30m, for quicker stopping in case of emergency.
voice announcement (English version)	Voice reminder ride safely to protect passenger safety
Frequency conversion slow speed energy saving function	When the control system detects that the equipment is unoccupied, it will automatically reduce the operating speed, and when it detects that a passenger is using it, it will increase to the normal operating speed. It can effectively reduce energy consumption, minimize mechanical wear and tear, and enhance the quietness and comfort.
Handrail belt break protection	If the handrail belt breaks, stop running immediately.
Handrail belt heating protection	When the ambient temperature is low, the handrail belts are heated to provide passengers with a more comfortable ride.

Other

Optional features available on request

CIVIL ENGINEERING PARAMETERS OF 23.2° ESCALATOR

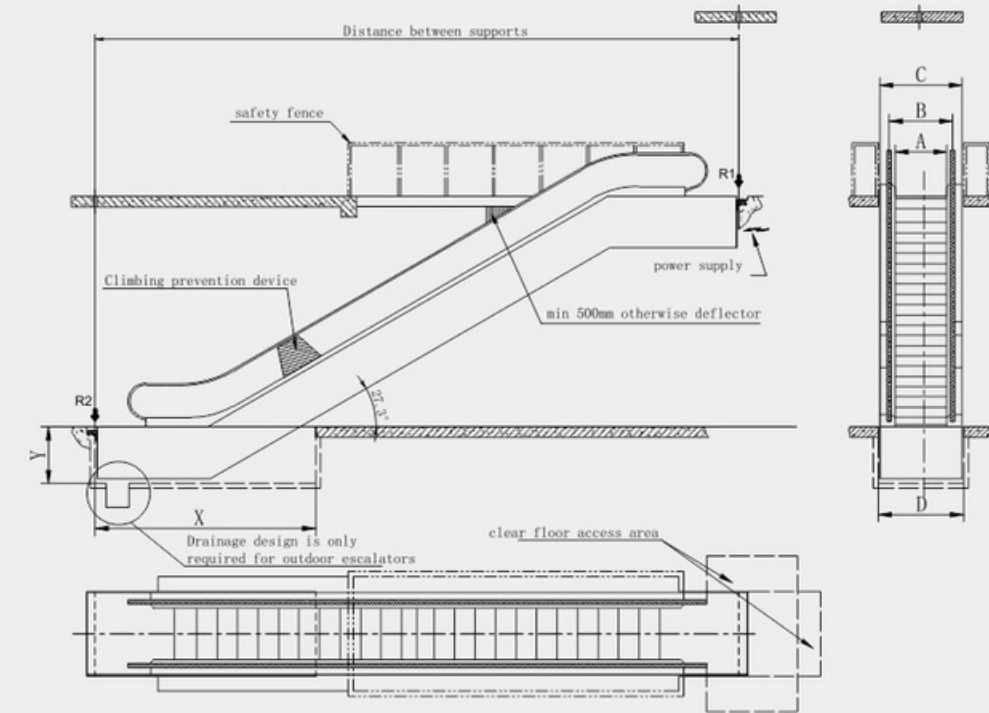


When the step width is 600, the horizontal span and floor opening will be lengthened by 500mm accordingly.

Specification No.	Step width (A) mm	Handrail center distance (B) mm	Escalator outline width (C) mm	Width of civil well (D) mm	Civil construction shaft length (X)	Civil construction shaft depth (Y)	Rated speed m/s
23.2°/600	600	838	1140	≥1200	≥5700	≥1200 (indoor) ≥1450 (outdoor)	0.5/0.65
23.2°/800	800	1038	1340	≥1400	≥5700	≥1200 (indoor) ≥1450 (outdoor)	0.5/0.65
23.2°/1000	1000	1238	1540	≥1600	≥5700	≥1200 (indoor) ≥1450 (outdoor)	0.5/0.65

Note: Only for reference, final manufacture please follow contract.

CIVIL ENGINEERING PARAMETERS OF 27.3° ESCALATOR

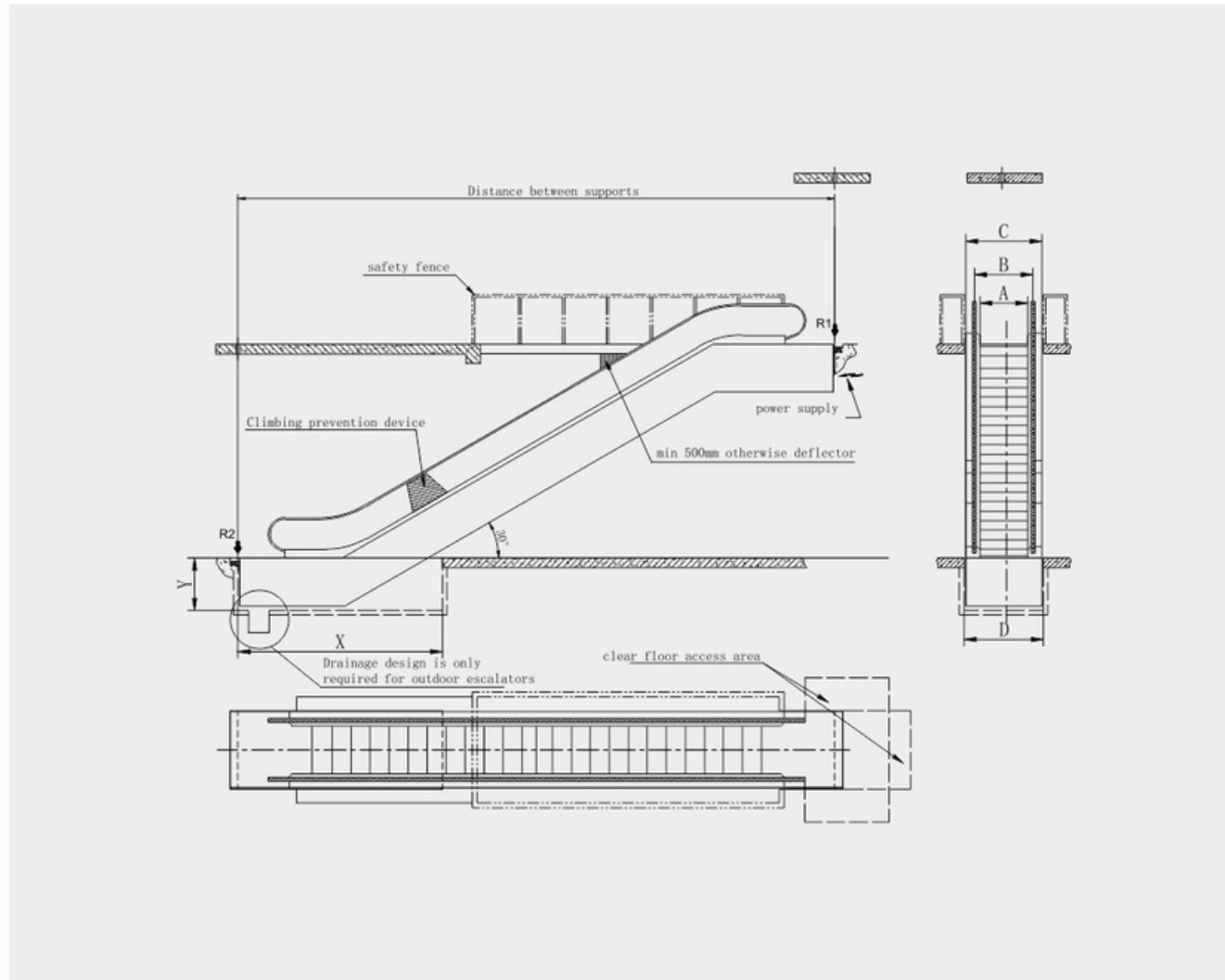


When the step width is 600, the horizontal span and floor opening will be lengthened by 500mm accordingly.

Specification No.	Step width (A) mm	Handrail center distance (B) mm	Escalator outline width (C) mm	Width of civil well (D) mm	Civil construction shaft length (X)	Civil construction shaft depth (Y)	Rated speed m/s
27.3°/600	600	838	1140	≥1200	≥5100	≥1200 (indoor) ≥1450 (outdoor)	0.5/0.65
27.3°/800	800	1038	1340	≥1400	≥5100	≥1200 (indoor) ≥1450 (outdoor)	0.5/0.65
27.3°/1000	1000	1238	1540	≥1600	≥5100	≥1200 (indoor) ≥1450 (outdoor)	0.5/0.65

Note: Only for reference, final manufacture please follow contract.

CIVIL ENGINEERING PARAMETERS OF 30° ESCALATOR

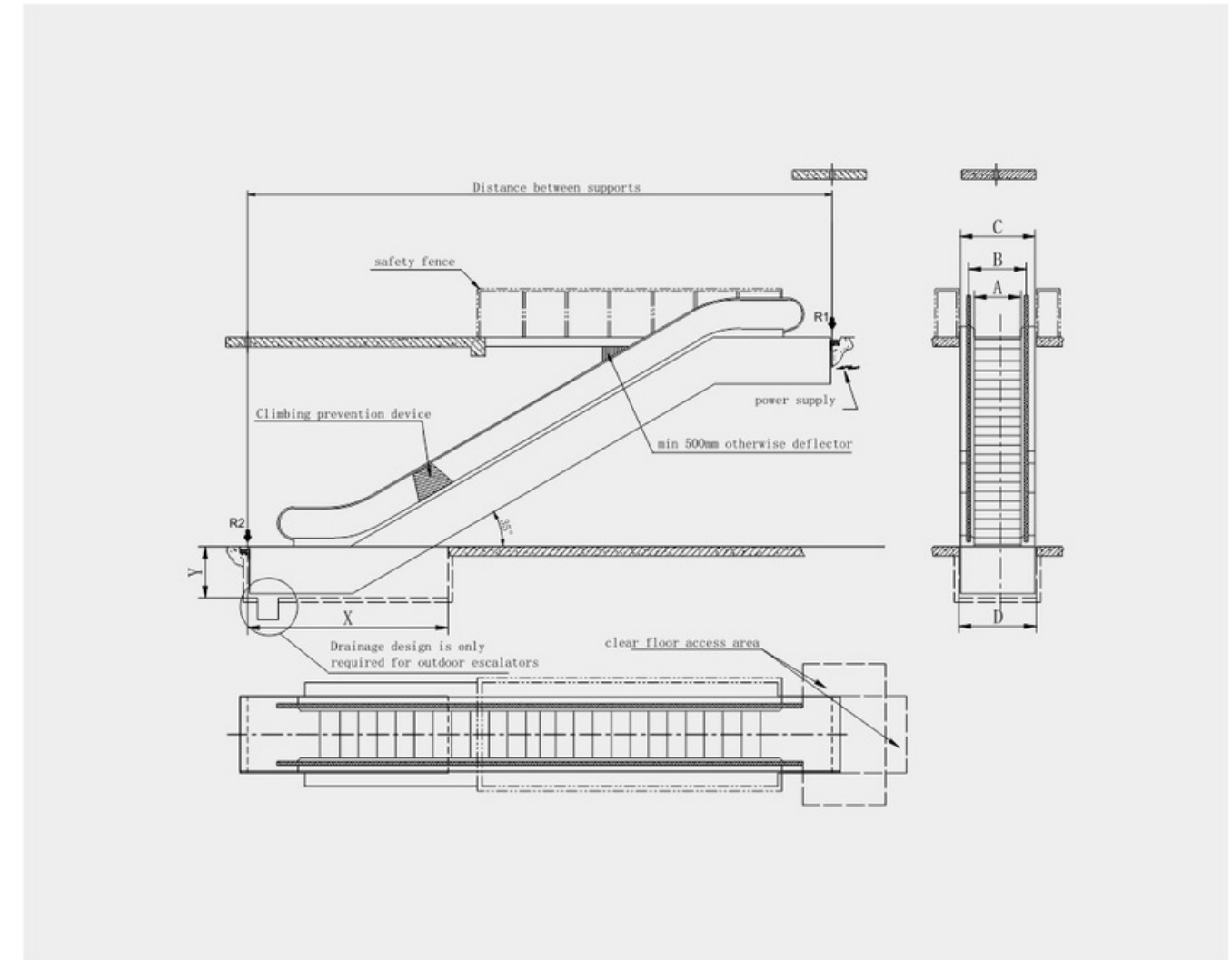


When the step width is 600, the horizontal span and floor opening will be lengthened by 500mm accordingly.

Specification No.	Step width (A) mm	Handrail center distance (B) mm	Escalator outline width (C) mm	Width of civil well (D) mm	Civil construction shaft length (X)	Civil construction shaft depth (Y)	Rated speed m/s
30°/600	600	838	1140	≥1200	≥4340	≥1140 (indoor) ≥1390 (outdoor)	0.5/0.65
30°/800	800	1038	1340	≥1400	≥4340	≥1140 (indoor) ≥1390 (outdoor)	0.5/0.65
30°/1000	1000	1238	1540	≥1600	≥4340	≥1140 (indoor) ≥1390 (outdoor)	0.5/0.65

Note: Only for reference, final manufacture please follow contract.

CIVIL ENGINEERING PARAMETERS OF 35° ESCALATOR

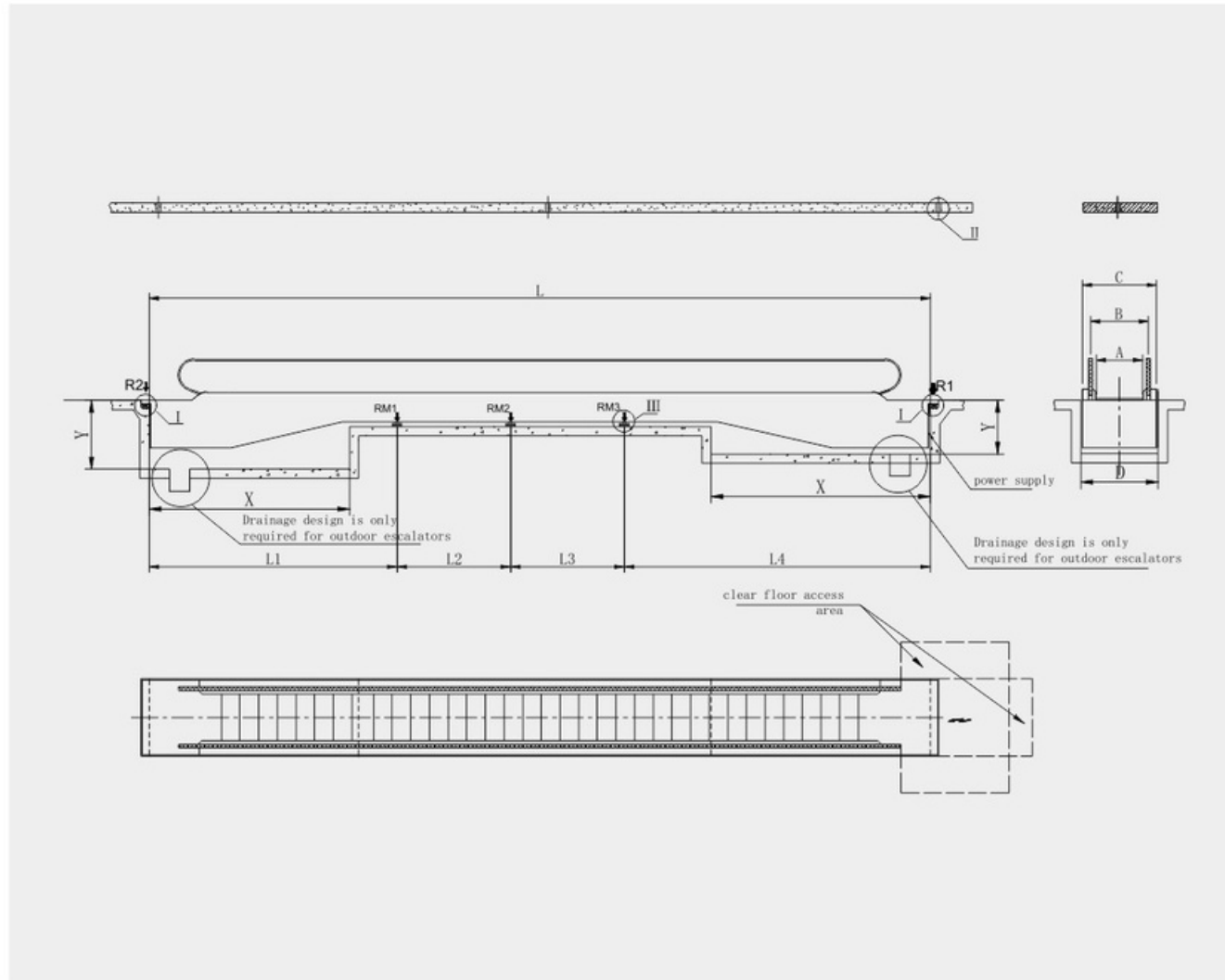


When the step width is 600, the horizontal span and floor opening will be lengthened by 500mm accordingly.

Specification No.	Step width (A) mm	Handrail center distance (B) mm	Escalator outline width (C) mm	Width of civil well (D) mm	Civil construction shaft length (X)	Civil construction shaft depth (Y)	Rated speed m/s
35°/600	600	838	1140	≥1200	≥4135	≥1140 (indoor) ≥1390 (outdoor)	0.5/0.65
35°/800	800	1038	1340	≥1400	≥4135	≥1140 (indoor) ≥1390 (outdoor)	0.5/0.65
35°/1000	1000	1238	1540	≥1600	≥4135	≥1140 (indoor) ≥1390 (outdoor)	0.5/0.65

Note: Only for reference, final manufacture please follow contract.

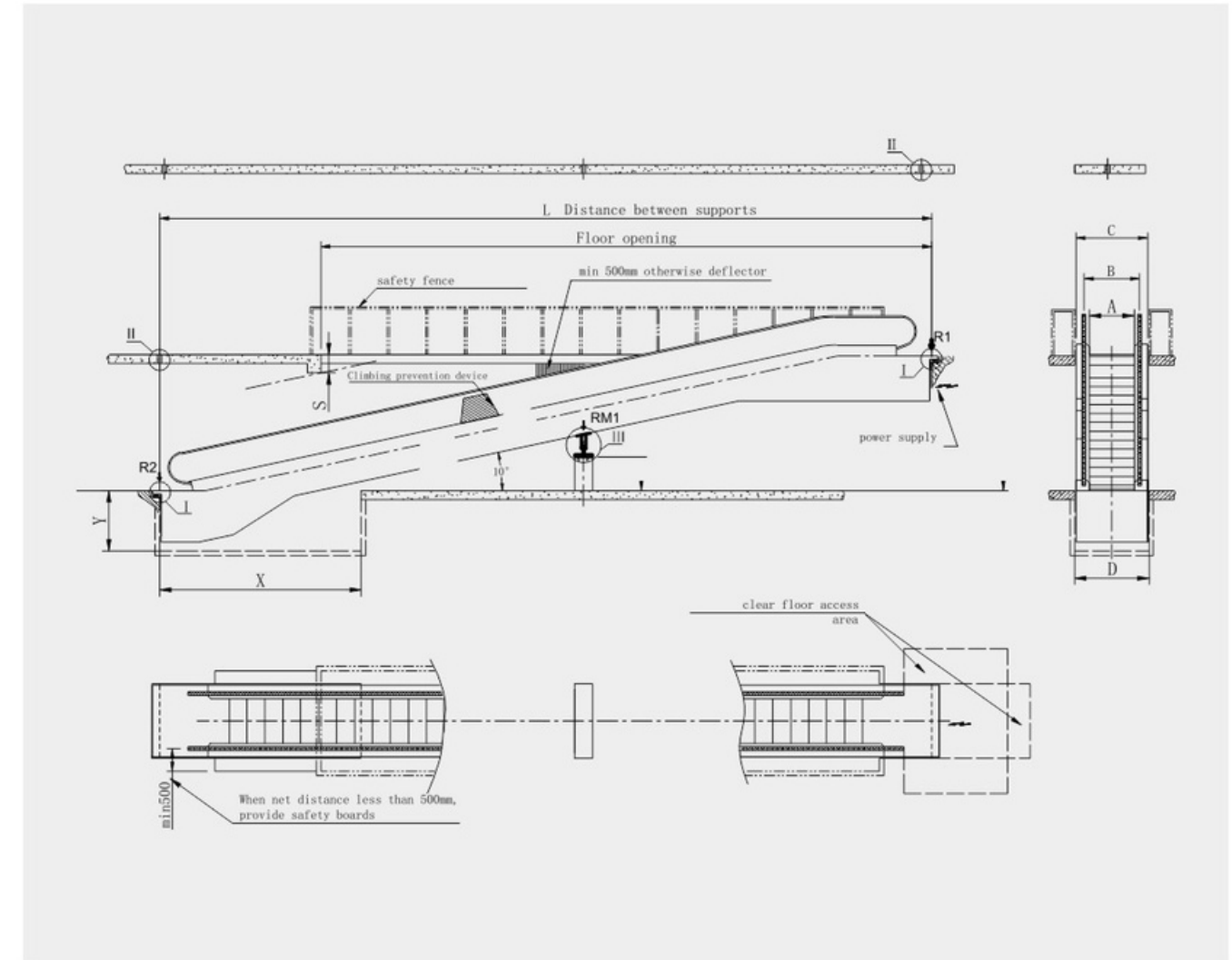
CIVIL ENGINEERING PARAMETERS OF 0° MOVING WALK



Specification No.	Step width (A) mm	Handrail center distance (B) mm	Escalator outline width (C) mm	Width of civil well (D) mm	Civil construction shaft length (X)	Civil construction shaft depth (Y)	Rated speed m/s
0°/800	800	1038	1340	≥1400	≥4700	≥1150	0.5/0.65
0°/1000	1000	1238	1540	≥1600	≥4700	≥1150	0.5/0.65
0°/1200	1200	1438	1740	≥1800	≥4700	≥1150	0.5/0.65

Note: Only for reference, final manufacture please follow contract.

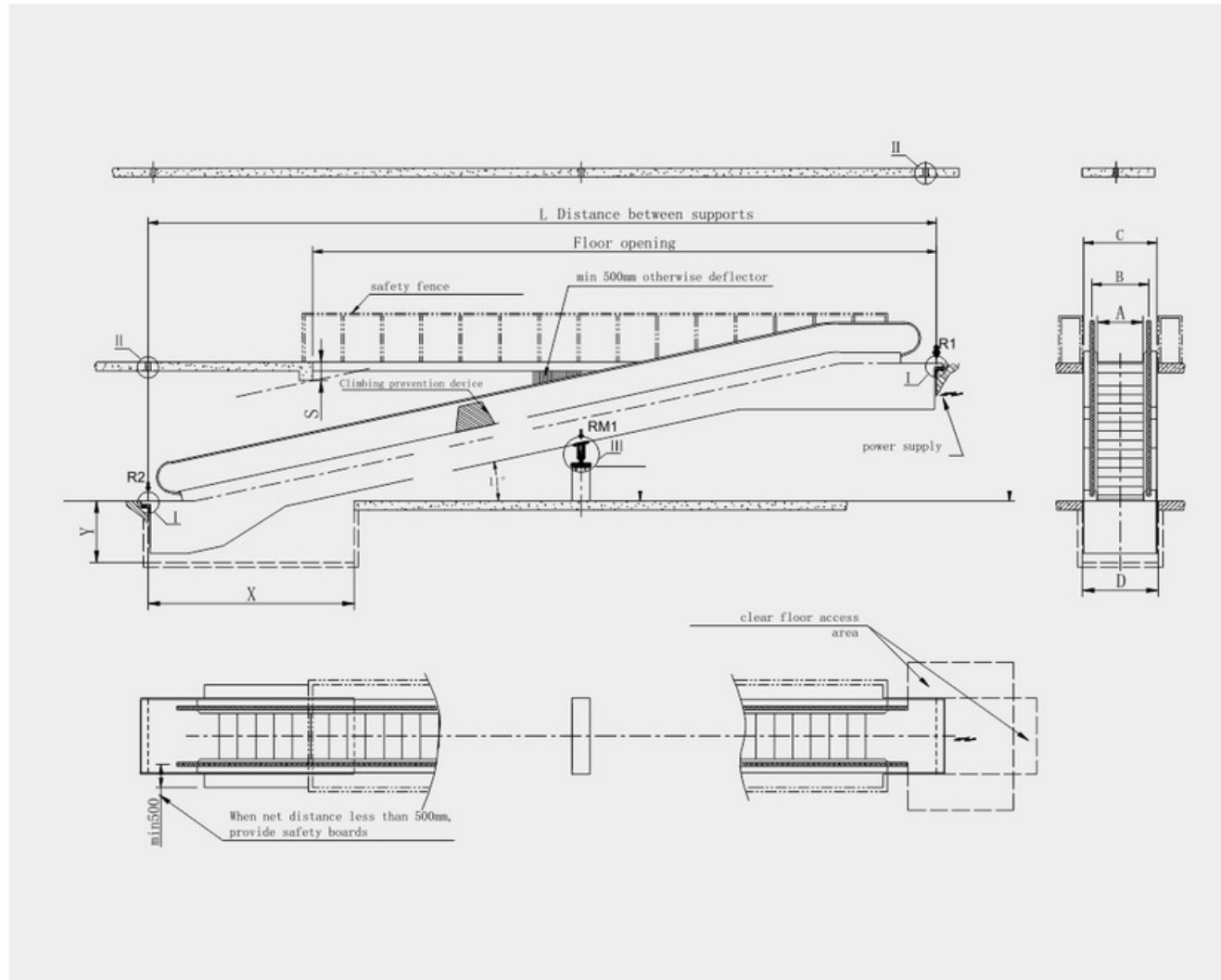
CIVIL ENGINEERING PARAMETERS OF 10° MOVING WALK



Specification No.	Step width (A) mm	Handrail center distance (B) mm	Escalator outline width (C) mm	Width of civil well (D) mm	Civil construction shaft length (X)	Civil construction shaft depth (Y)	Rated speed m/s
10°/800	800	1038	1340	≥1400	≥4800	≥1100	0.5/0.65
10°/1000	1000	1238	1540	≥1600	≥4800	≥1100	0.5/0.65
10°/1200	1200	1438	1740	≥1800	≥4800	≥1100	0.5/0.65

Note: Only for reference, final manufacture please follow contract.

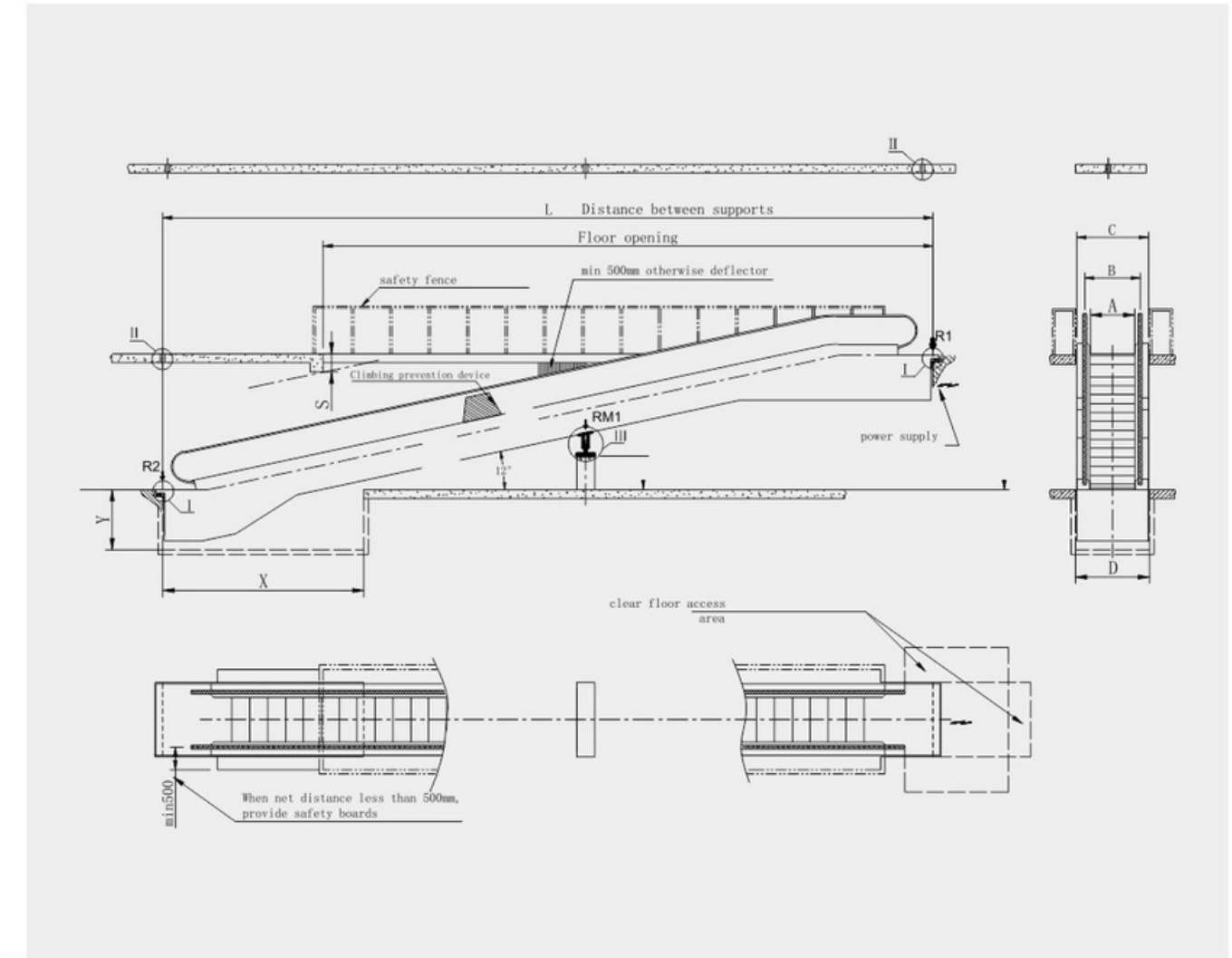
CIVIL ENGINEERING PARAMETERS OF 11° MOVING WALK



Specification No.	Step width (A) mm	Handrail center distance (B) mm	Escalator outline width (C) mm	Width of civil well (D) mm	Civil construction shaft length (X)	Civil construction shaft depth (Y)	Rated speed m/s
11°/800	800	1038	1340	≥1400	≥4500	≥1100	0.5/0.65
11°/1000	1000	1238	1540	≥1600	≥4500	≥1100	0.5/0.65
11°/1200	1200	1438	1740	≥1800	≥4500	≥1100	0.5/0.65

Note: Only for reference, final manufacture please follow contract.

CIVIL ENGINEERING PARAMETERS OF 12° MOVING WALK



Specification No.	Step width (A) mm	Handrail center distance (B) mm	Escalator outline width (C) mm	Width of civil well (D) mm	Civil construction shaft length (X)	Civil construction shaft depth (Y)	Rated speed m/s
12°/800	800	1038	1340	≥1400	≥4200	≥1100	0.5/0.65
12°/1000	1000	1238	1540	≥1600	≥4200	≥1100	0.5/0.65
12°/1200	1200	1438	1740	≥1800	≥4200	≥1100	0.5/0.65

Note: Only for reference, final manufacture please follow contract.