

**XIZI 西子电梯**

# **XEC-6000**

— ESCALATOR —

XIZI2302



 Service Line / **400-826-1112**

**XIZI ELEVATOR CO.,LTD.**

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【Pioneer of national brand】

# 40<sup>+</sup> years of history

## ABOUT XIZI ELEVATOR

Xizi Elevator Technology Co., Ltd. is a comprehensive elevator manufacturing enterprise integrating research and development, manufacturing, sales, installation and after-sales service. Company follow the west more than 40 years of elevator industry accumulation, in adhere to independent innovation, has the abundant research and development strength and complete product system, at the same time, continue deepening the domestic market, expand overseas markets, actively create and develop the global marketing service network system, and is committed to provide the customers with professional technology, products and services.



# PRODUCT MARKET POSITIONING

## XEC-6000

The XEC-6000 integrated drive escalator is the latest safety escalator product of XIZI Elevator. The ladder is manufactured using the most advanced technology of XIZI Elevator, a technical team with the most advanced creativity and high-level processing and manufacturing techniques, thus ensuring the high performance and high quality of the product.

XEC-6000 escalator adopts integrated drive, encoder speed measurement, and shock absorption design, making it safe and reliable, efficient transmission, and comfortable riding performance; integrated drive escalator makes you a safe and comfortable elevator life.

The integrated drive escalator is manufactured by integrating XIZI Elevator's most advanced technology and high-level manufacturing techniques.

The integrated drive escalator adopts a new integrated drive and integral hoisting, thus ensuring the safety, efficiency and installation convenience of the drive.

The integrated drive escalator adopts the main engine shock absorption design to bring you a comfortable feeling on the elevator.

### Specifications

Rise (mm)	Angle of inclination	Rated speed (m/s)	Step width (mm)
≤6000	30°/35°	0.5	1000/800/600

## PERFORMANCE & ADVANTAGES

### ► Integrated drive

- Eliminate the risk of loosening of the main drive chain and displacement of the main engine, making the drive safer.
- Using high-precision helical gear transmission, the transmission is more efficient.
- The integrated installation has high precision, the later maintenance is simple, environmental protection and low cost.
- Reliable and easy-to-adjust working brake.
- The main engine damping device reduces the movement vibration and makes the elevator more comfortable.
- Low noise
- A number of invention patents and utility model patents.



### ■ Gear box

It adopts high-precision helical gear transmission design, and its transmission efficiency is 10% higher than that of the conventional gearbox, and it is more energy-saving. High manufacturing precision, reliability, and low maintenance.



### ■ Brake

The micro switch has higher precision and stronger impact resistance. The braking torque is large and the braking is stable.



### ■ Encoder

Use imported encoder. Strong impact resistance, safety and stability. The speed measurement accuracy is increased by more than 8 times, and the operation is safer.

## ► Track system

- Adopt integral upper and lower side plate assembly, high precision, stable operation, galvanized guide rail.
- The main guide rail adopts the design of side deflection prevention on both sides, which effectively prevents the ladder road from deviating.
- The upper and lower R curvature radius is large, and the ride is more comfortable.

## ► Transmission system

- It adopts high-strength plate chain, oil-resistant, wear-resistant imported polyurethane rim, suitable for occasions with large numbers of people and large flow.
- stainless steel steps are treated with black electrophoresis paint, tooth top polishing, and non-slip treatment. The main and auxiliary wheels of the steps adopt double-sided sealed bearings and EU imported polyurethane materials, which are stable in performance, beautiful in appearance, safe and reliable.

## ■ Handrail drive

Driven by large friction wheels and super strong driving force of the handrail, it can ensure the synchronous operation of the handrail belt and the steps.

## ■ Step chain

The high-strength cascade transmission chain can greatly meet the needs of use, with a design life of 70,000 hours

## ■ step

Non-slip treatment of high-strength stainless steel or aluminum alloy steps.

The dynamic load test was carried out 20 million times in a cascade, far exceeding the requirements of the national standard.

## ► Truss

Pass EN1090 welding certification.

The good rigidity of the square tube truss ensures the stable operation of the escalator under heavy load for a long time and prolongs the service life of the escalator.

Has better deflection and strength.

Standard deflection 1/750, optional deflection 1/1000 and 1/1500.

# OPTIONAL

## ► Balustrade and landing

- The entrance of the aluminum alloy handrail has the characteristics of high strength, no deformation, no aging, and high safety level.
- Stainless steel inner and outer inclined cover plate prevents climbing and guarantees safety.
- The glass railing is higher than conventional and safe to ride.
- The front board is perfectly combined, and the appearance is simple and elegant.
- The punched rectangular front plate has a high anti-slip grade.

## ► Control system

- Using a fully upgraded 32-bit microprocessor, the control system has comprehensive functions
- Comprehensive safety function protection (safety integrity level SIL2)
- Dual CPU capacity and design
- Self-learning, self-speculation
- Independent power frequency switching function



## ◎ HANDRAL BELT



Standard colour: black

## ◎ HANDRAIL LIGHTING-P TYPE



## ◎ HANDRAIL LIGHTING-S TYPE



OPTIONAL DECORATIONS



ESCALATOR HEATING SYSTEM

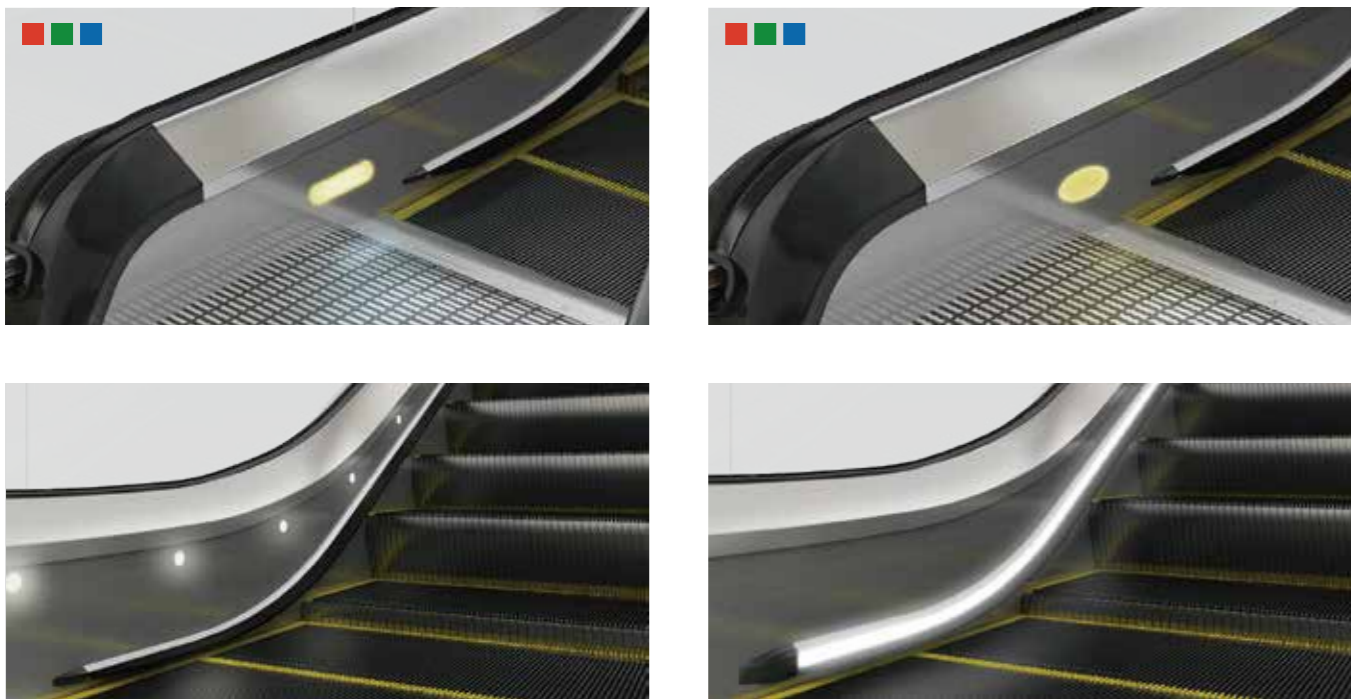


TRAFFIC FLOW LIGHT



Traffic Flow Light- I Type

COMB LIGHTING/SKIRT LIGHT



STEP LIGHTING



Multi-function pillar

● MAINTENANCE MANAGEMENT SYSTEM (OPTIONAL)

Maintain management system can automatically detect the running situation of escalator and send the message by mobile phone to remind maintain.



● STERILIZATION FUNCTION (OPTIONAL)

Tested by the Micro-Testing Agency, the killing rate of Escherichia coli and Staphylococcus aureus reached 99.99%; Real time sterilization, do not affect the operation of the escalator

- Non-contact, odorless, to avoid secondary pollution of disinfection water, meanwhile, avoiding uncontrollable quality of manual disinfection;
- National Health released the "Covid-19 Infection Pneumonia Diagnosis and Treatment Plan (Trial Version 5)" Covid-19 is sensitive to ultraviolet rays and heat, 56°C for 30 minutes, ether, 75% ethanol, chlorine disinfectant, peracetic acid and chloroform, etc. These lipid solvents can effectively inactivate the virus, but chlorhexidine cannot inactivate the virus.



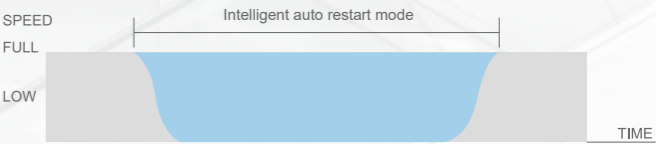
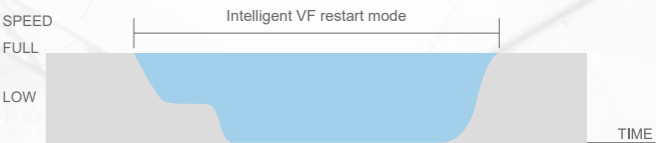
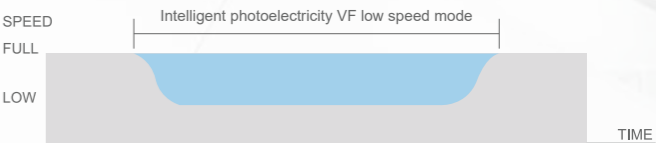
► Green energy-saving

■ Intelligent photoelectricity VF low speed mode

■ Intelligent VF restart mode

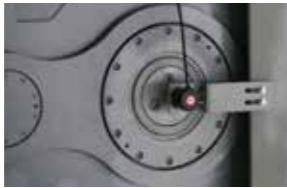
■ Intelligent auto restart mode

Achieve the energy-saving effect, to provide you with suitable choice.



ENERGY SAVING	Intelligent photoelectricity VF low speed(Optional)	Intelligent VF restart (Optional)	Intelligent auto restart (Optional)
Free loading energy-saving effect	Larger than 60%	Larger than 70%	Larger than 80%
Mechanical life	Larger than 60%	Larger than 70%	Larger than 80%
Noise	Small	Small	Small

# STANDARD SAFETY CONFIGURATION



Escalator speed monitor / Escalator anti-reversat device



Step collapse detect



Handrail speed detect



Skirting protection



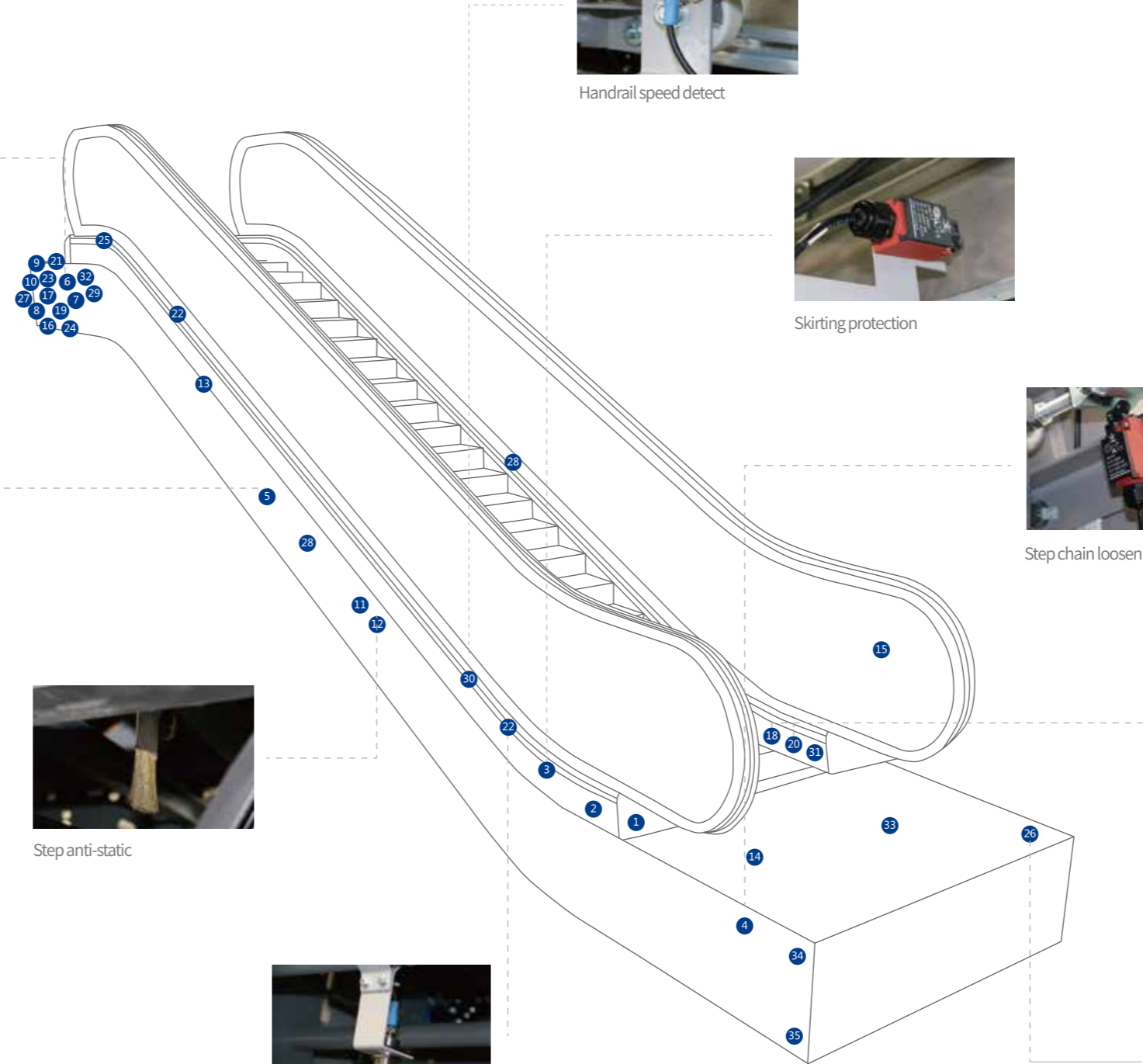
Step chain loosen and broken protection



Emergency stop button + fault display



Floor plate open protection



Step anti-static



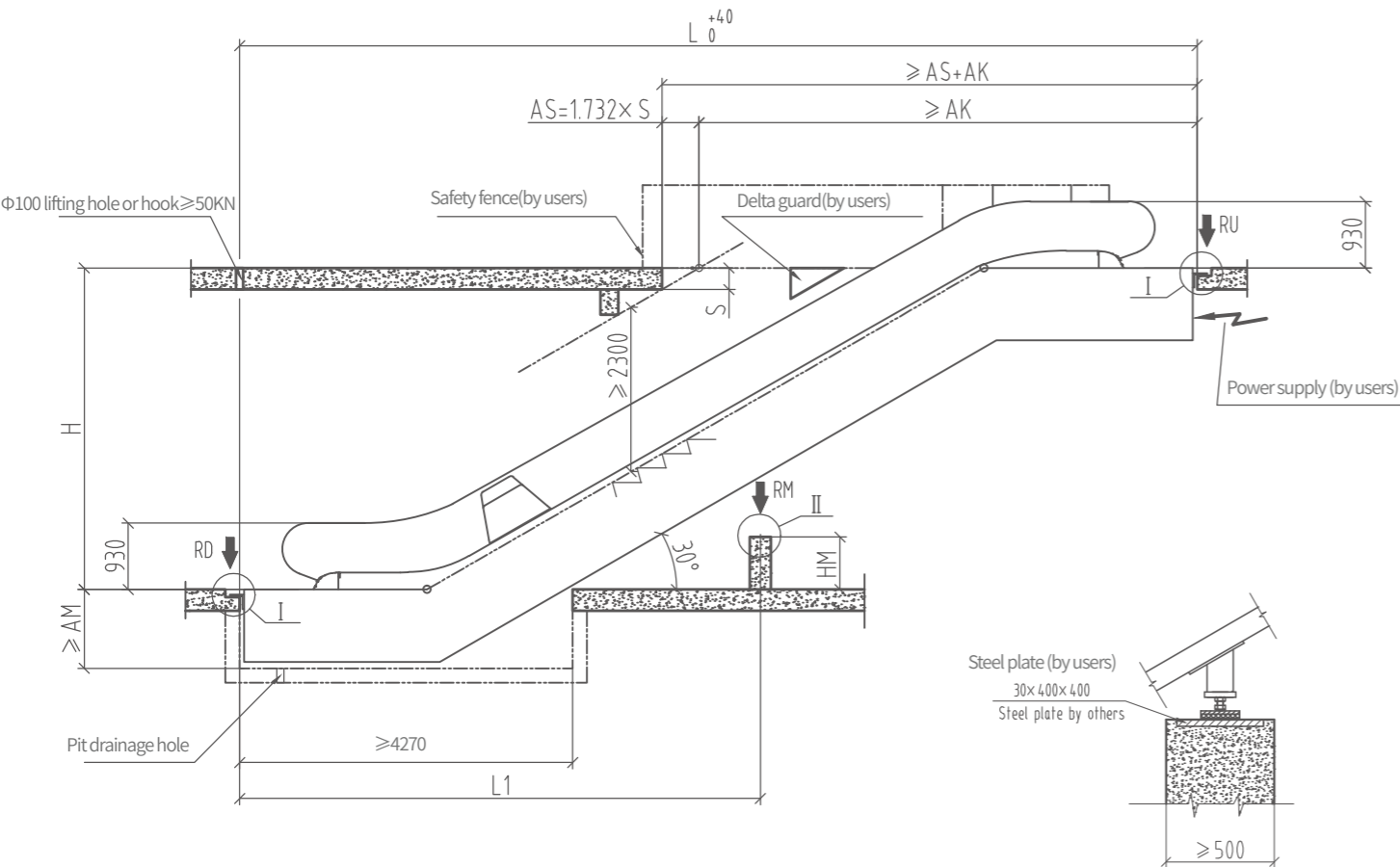
Step missing detect

## STANDARD SAFETY CONFIGURATION

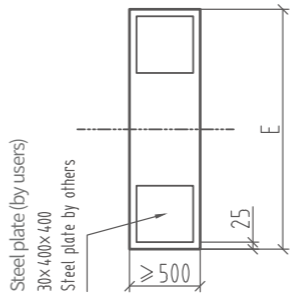
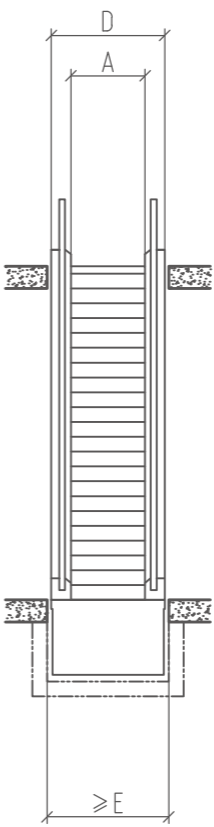
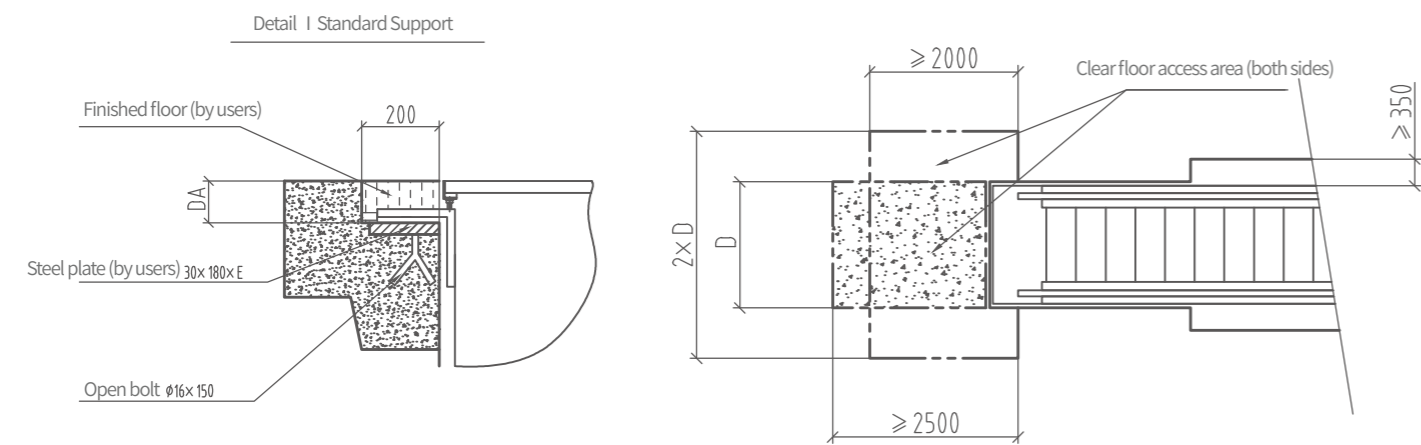
- |   |   |
|---|---|
| (1) Handrail entry protection                     | (19) Auto lubrication                     |
| (2) Comb protection                               | (20) Emergency stop button                |
| (3) Skirting protection                           | (21) Main circuit protective Device       |
| (4) Step chain loosen and broken protection       | (22) Step missing protection              |
| (5) Step sagging and roller broken protection     | (23) Brake open detect device             |
| (6) excessive speed protection                    | (24) Hand winding device                  |
| (7) Unintentional Reversal Safety Device          | (25) Maintenance running                  |
| (8) Motor Overload And Overheat Protective Device | (26) Floor plate open protective device   |
| (9) GND Protective Device                         | (27) Starting alarm bell                  |
| (10) Phase-failure-reverse Device                 | (28) Skirting deflector                   |
| (11) Handrail belt anti-static                    | (29) Brake distance detect                |
| (12) Step anti-static                             | (30) Handrail speed detect device         |
| (13) step upthrust protection                     | (31) Fault display                        |
| (14) Machine Room Protective Device               | (32) Up and down maintenance interlocking |
| (15) Safety warning labels                        | (33) Floor plate lifting device           |
| (16) Brake release protection                     | (34) Up and down machine room pedal       |
| (17) Fan cover open protection                    | (35) Inspection safety tools              |
| (18) Up & Down key switch                         |   |

# LAYOUT

## XEC-6000 COMMERCIAL ESCALATOR (30°)



Detail II Mid Support Detail



Detail II Mid Support Detail

### The work that customer and contractor have to do:

1. This drawing is fit for the products which rise  $H \leq 6m$ , the permitted tolerance is  $-15mm \sim +15mm$ .
2. When the horizontal span  $L > 15.3$  meters, need to add an intermediate support, and the position is basically centered
3. Before installed, all holes have to be enveloped with the safety guard which height is not less than 1.2m and guarantee the strength is enough.
4. Pit should be anti-water. The location of plash should be at the basement.
5. According to the requirement of the technology data, the power supply with the safety switch is setting at the machine room. The fluctuation of voltage should not over than  $\pm 7\%$ . The N wire and earth wire should be separated and the ground resistance is not more than  $4 \Omega$ .
6. When the distance between the edge of the escalator and any obstacle is less than 350mm, the user needs to set up a vertical anti-collision baffle without sharp edges above the outer cover, and the height should not be less than 300mm.
7. If the user has any special requirement, they need to be approved by the manufacturer before signing a contract.
8. Constructions should conform with the relevant regulations & codes of the usage of escalators and moving walks.

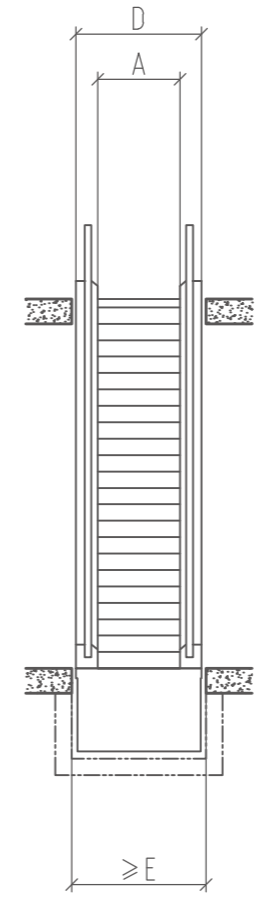
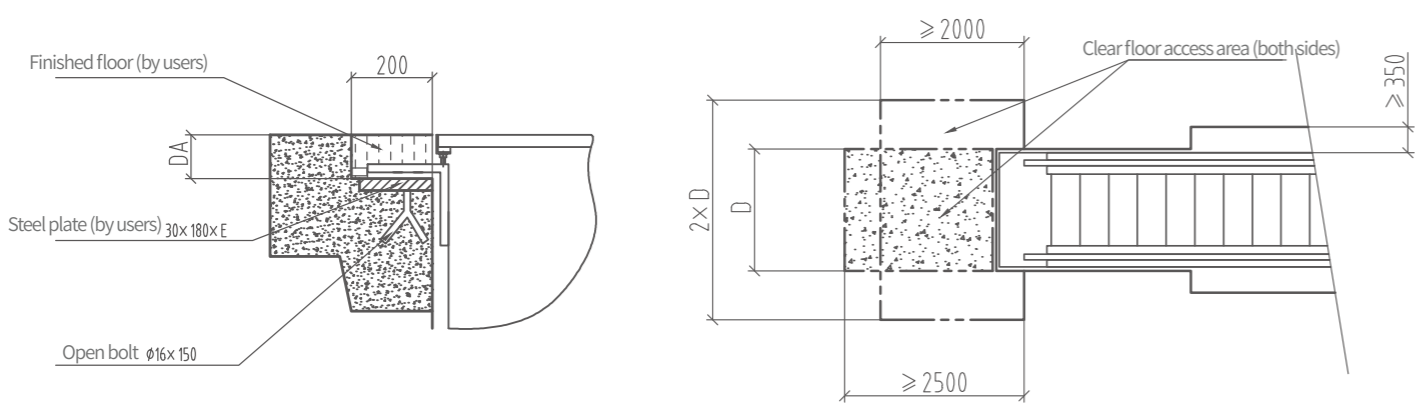
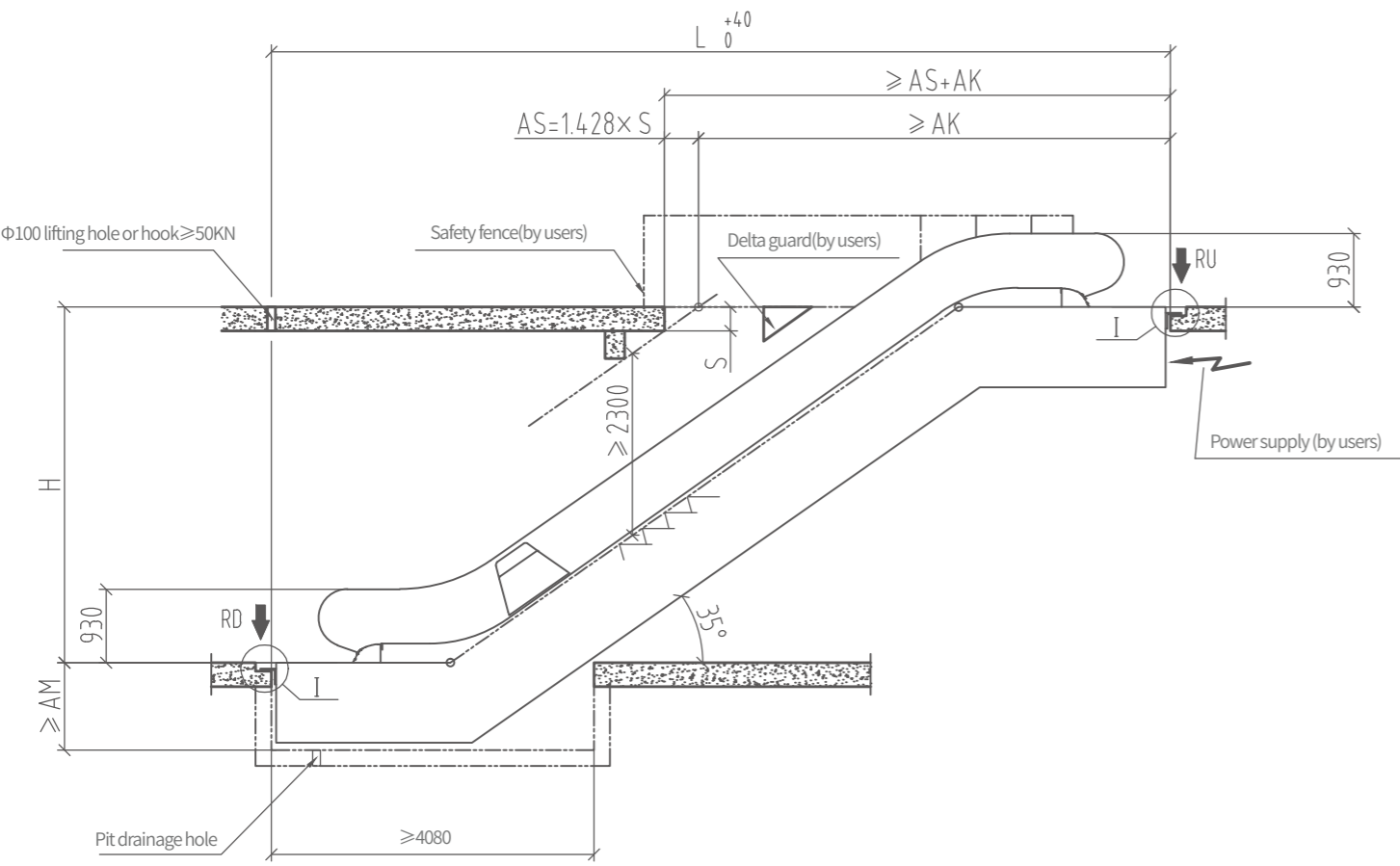
1000	RU=	4.96L+17	RU=	2.3L+13.6
	RD=	4.96L+10	RD=	2.3L+7.1
	—	—	RM=	7.16L+4.9
800	RU=	4.31L+18	RU=	2.02L+13.2
	RD=	4.31L+10	RD=	2.02L+6.8
	—	—	RM=	6.33L+4.8
600	RU=	3.66L+27	—	
	RD=	3.66L+22		
STEP WIDTH	2 SUPPORTS L:m		3 SUPPORTS L:m	
SUPPORT FORCE(KN)				

2000≤H≤6000	2	600	1130	1240	7050	1.732H+5265	For Indoor, Outdoor model A	1110	Without Shock absorbing rubber	115
		800	1330	1440	6550	1.732H+4765		For Outdoor model B with Oil separator	1360	With Shock absorbing rubber
		1000	1530	1640						
H	FLAT STEP	A	D	E	AK	L	AM		DA	

\* The construction span is allowed to change, please consult with our company for the specific size  
\*When the escalator step width is 1000mm, if the escalator is outdoor C model and configured with skirt panel lighting, the upper truss should be lengthened by at least 150mm  
\*When the escalator step width is 800mm, if the escalator is outdoor C model and configured with skirt panel lighting, the upper truss should be lengthened by at least 150mm

# LAYOUT

## XEC-6000 COMMERCIAL ESCALATOR (30°)



Detail I Standard Support

### The work that customer and contractor have to do:

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1000	RU=	5.11L+13
	RD=	5.11L+5
800	RU=	4.41L+15
	RD=	4.41L+9
600	RU=	3.76L+18
	RD=	3.76L+12
STEP WIDTH	H≤6000 2 SUPPORTS L:m	
SUPPORT FORCE(KN)		

2000≤H≤6000	2	600	1130	1240	6450	1.428H+5405	For Indoor, Outdoor model A	1110	Without Shock absorbing rubber	115
		800	1330	1440	5950	1.428H+4905	For Outdoor model B with Oil separator	1360	With Shock absorbing rubber	135
		1000	1530	1640						
H	FLAT STEP	A	D	E	AK	L	AM		DA	

\* The construction span is allowed to change, please consult with our company for the specific size  
\*When the escalator step width is 1000mm, if the escalator is outdoor C model and configured with skirt panel lighting, the upper truss should be lengthened by at least 150mm  
\*When the escalator step width is 800mm, if the escalator is outdoor C model and configured with skirt panel lighting, the upper truss should be lengthened by at least 150mm