



Sicher Elevator Portal



Sicher Elevator Wechat

LEAD THE DEVELOPMENT OF FUTURE  
TRANSPORT BY INNOVATIVE TECHNOLOGY

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**SRH**  
SAFE REACH

Escalator / Moving Walk  
GRE / GRM

Stock code: 301056

**SRH**  
SAFE REACH



**SICHER ELEVATOR,  
ALL FOR SAFE REACH**

# SICHER ELEVATOR

Sicher Elevator Co., Ltd. is a comprehensive elevator manufacturing service provider engaging in the development, manufacturing, sales, installation, maintenance and modern renewal and transformation of elevators, and holds the national highest-level production license for producing special equipment (A1). After successfully listed on the growth enterprise market of Shenzhen Exchange Stock in September 2021 (Stock Name: Sicher; Stock Code: 301056), Sicher Elevator has become the first elevator company listed on the growth enterprise market in Zhejiang and one of the top 10 Chinese elevator manufacturers.

For nearly 20 years, Sicher Elevator has always taken “all for safe reach” as the core philosophy, concentrated on two superior fields of core technology and elevator safety and built the whole industrial chain service platform and intelligent industrial new eco-system of the elevator industry. Sicher Elevator has established a long-term strategic partnership respectively with China State Construction Engineering Corporation, China Railway Engineering Corporation, China Communications Construction, China Metallurgical Group Corporation, Shimao Group and many other famous real estate enterprises. Sicher Elevator has been one of the top 10 elevator suppliers of governments in China for seven consecutive years and become a supplier of central government organs in centralized procurement. Its products have been exported to over 80 countries and regions. SRH has become a well-received elevator brand in Russia, Australia, Turkey, Mexico, Brazil, New Zealand, UAE, India, Egypt, Iran, Bangladesh, South Africa and other countries and regions.

## Science and Technology Leading Advance with Glory

- Top 10 Chinese elevator manufacturers for three consecutive years
- Products are exported to over 80 countries and regions
- Selected as one of the top 10 elevator suppliers in national government purchase for seven consecutive years
- The core technology won the Science and Technology Advancement Award of Zhejiang Province
- Presided over and participated in the drafting of over 30 national and industrial elevator standards
- Won the Engineering Award of Elevator World; included on the list of Shanghai China Records
- Developed worldwide and purchased a modern German elevator manufacturing factory
- A five-star enterprise undertaking social responsibility in China



# System

Guarantee safety from every aspect  
Accompany whole-heartedly

Looking Amazing while endowing the  
building with vitality

The Sicher escalators integrate flexible industrial designs with perfect functions, utilize new durable materials and integrate into buildings through spatial planning. With good durability and operating performance, it can fully meet the requirements for transport in public venues, such as subways, overpasses, stations and airports and provide public transport solutions suitable for cities.



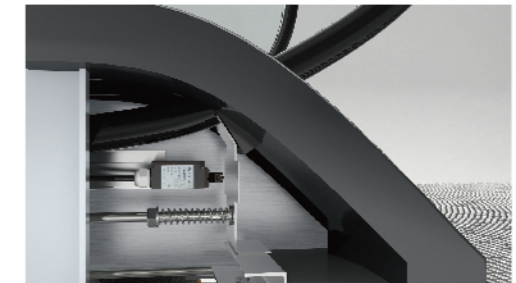
## Step chain protection

When step chains are broken, extend excessively, or extend and shorten unexpectedly, the escalator will stop automatically.



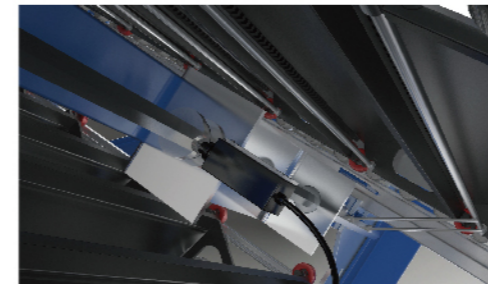
## Handrail entrance protection

The handrail entrance is installed with a safety device. When a foreign matter is clipped at the handrail entrance, the escalator will stop automatically.



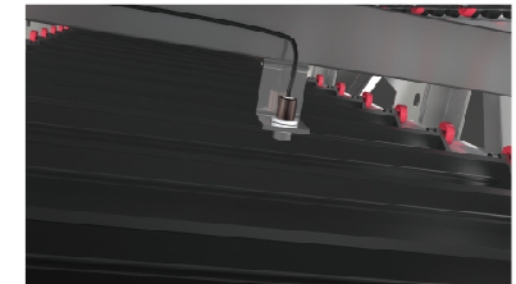
## Step sagging protection

When steps or rollers sag unexpectedly, the escalator will stop automatically.



## Missing step detection

The driving station and the steering station are provided with a monitoring device respectively. When a missing step is detected, the escalator will stop immediately.



## Comb safety protection

When there is a foreign matter between the moving step and the still comb, the safety switches monitoring both sides of the comb plate will be triggered and the whole escalator will stop automatically.



# Products

A whole series of solutions



## GRE20 Escalator

Maximum rise is up to 7.9 meters

### Standard specification

Application	Indoor, outdoor.16-hr operation daily		Inner & outer decking	Hairline stainless steel
Rise H	≤6	≤7.9	Skirting	Carbon steel/black powder
Inclination	35	30   27.3	Step	Stainless steel
Step width	600/800/1000		Landing plate	Stainless steel (anti-sliding)
Horizontal steps	2/2	2/2   3/3*	Illumination **	Lighting under upper & lower landing steps
Speed	0.5		Indicator	Failure code indicator on control cabinet
Main power	380V AC / 50Hz / 3P			Emergency stop button
Balustrade	Tempered glass(10mm)		Operation	Key switch
Handrail	Black			Inspection operation
Balustrade height	900			

\*Only for H > 6m

\*\* Optional for indoor type



## GRE30 Escalator

Maximum rise is up to 13 meters

### Standard specification

Application	Indoor, outdoor. 16-hr operation daily		Inner & outer decking	Hairline stainless steel
Rise H	≤13		Skirting	Carbon steel/black powder
Inclination (°)	30	27.3	Step	Stainless steel
Step width (mm)	600/800/1000		Landing plate	Stainless steel (anti-sliding)
Horizontal steps	3/3		Illumination**	Lighting under upper & lower landing steps
Speed (m/s)	0.5		Indicator	Failure code indicator on control cabinet
Main power	380V AC / 50Hz / 3P			Emergency stop button
Balustrade	Tempered glass(10mm)		Operation	Key switch
Handrail	Black			Inspection operation
Balustrade height (mm)	900			

\* Optional for indoor type

## GRE50 public transport escalator

Maximum rise is up to 30 meters

### Standard specification

Application	Indoor, outdoor. 20-hr operation daily		Skirting	Hairline stainless steel
Rise H(m)	≤30		Step	Aluminum alloy
Inclination(°)	30	27.3	Landing plate	Stainless steel (anti-sliding)
Step width(mm)	600/800/1000		Illumination**	Lighting under upper & lower landing steps
Horizontal steps	3/3		Indicator	Failure code indicator on control cabinet
Speed(m/s)	0.5			Emergency stop button
Main power	380V AC / 50Hz / 3P		Operation	Key switch
Balustrade	Stainless steel inclined balustrade; Tempered glass(10mm)			Inspection operation
Handrail	Black			
Balustrade height(mm)	1000			

\*\* Optional for indoor type



## GRM20B moving walk

Maximum horizontal span is up to 120 meters

### Standard specification

Application	Indoor, outdoor.16-hr operation daily	Inner & outer decking	Hairline stainless steel
Horizontal span(m)	≤120	Skirting	Carbon steel/black powder
Inclination(°)	0-6	Pallet	Stainless steel
Pallet width(mm)	800/1000	Landing plate	Stainless steel (anti-sliding)
Speed(m/s)	0.5	Indicator	Failure code indicator on control cabinet
Main power	380V AC / 50Hz / 3P		Emergency stop button
Balustrade	Tempered glass(10mm)	Operation	Key switch
Handrail	Black		Inspection operation
Balustrade height(mm)	900		

## GRM20 moving walk

GRM20 moving walk's inclination angle is 10°~12°

### Standard specification

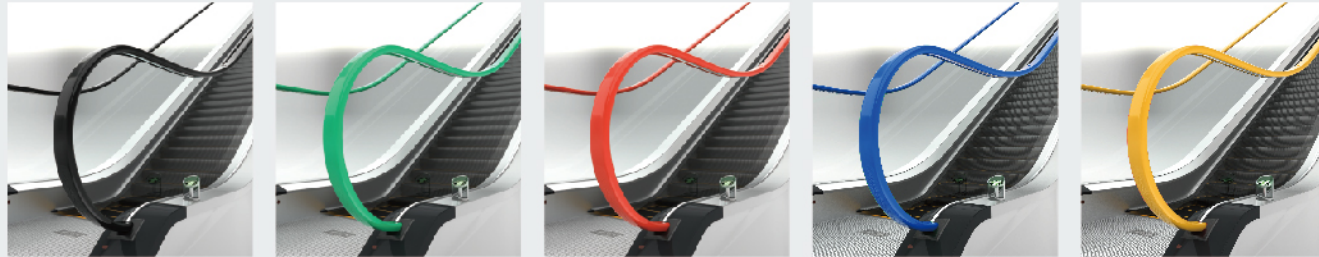
Application	Indoor, outdoor.16-hr operation daily	Inner & outer decking	Hairline stainless steel
Horizontal span(m)	≤50	Skirting	Carbon steel/black powder
Inclination(°)	10/11/12	Pallet	Stainless steel
Pallet width(mm)	800/1000	Landing plate	Stainless steel (anti-sliding)
Speed(mm)	400	Indicator	Failure code indicator on control cabinet
Speed(m/s)	0.5	Illumination*	Lighting under upper & lower landing pallets
Main power	380V AC / 50Hz / 3P		Emergency stop button
Balustrade	Tempered glass(10mm)	Operation	Key switch
Handrail	Black		Inspection operation
Balustrade height(mm)	900		

\* Optional for indoor type



# Decoration

## Handrail



Black (standard)

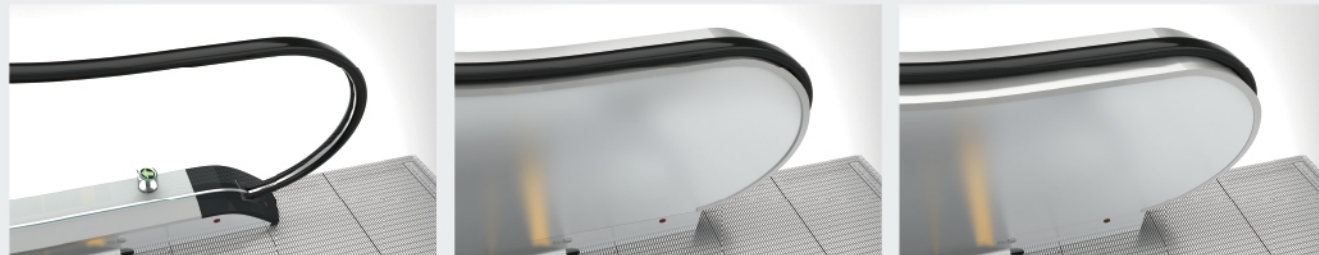
Green (optional)

Red (optional)

Blue (optional)

Yellow (optional)

## Balustrade

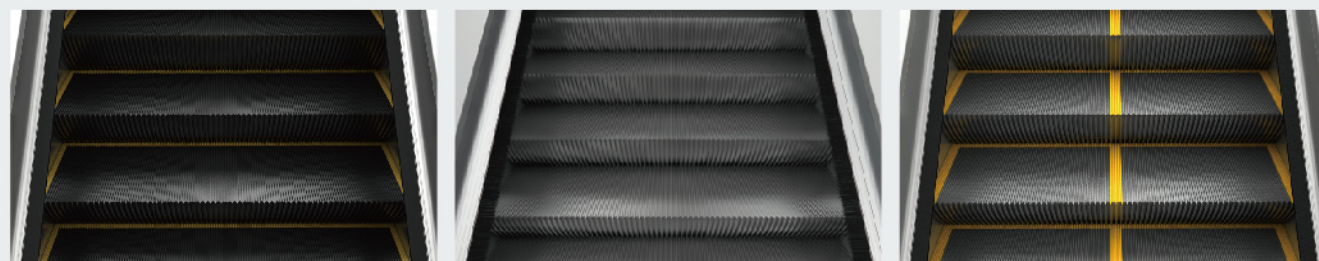


Vertical clear glass

Vertical stainless steel (optional)

Oblique stainless steel (optional)

## Step

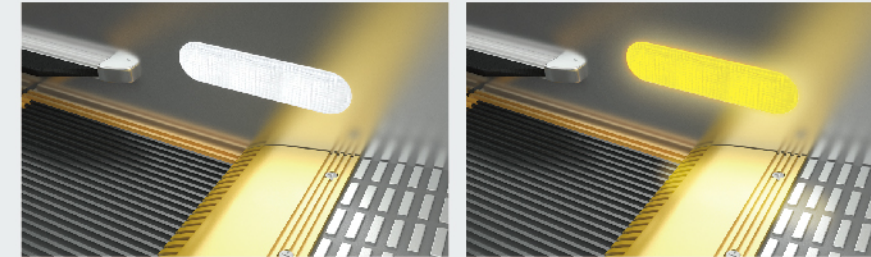


Black stainless steel with a yellow frame (standard for indoor escalators)

Plain aluminum alloy without a frame (standard for outdoor escalators)

Plain aluminum alloy with a yellow frame (optional)

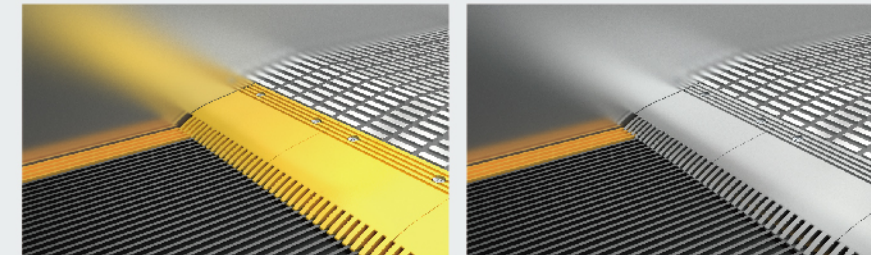
## Comb lighting



White LED (optional)

Yellow LED (optional)

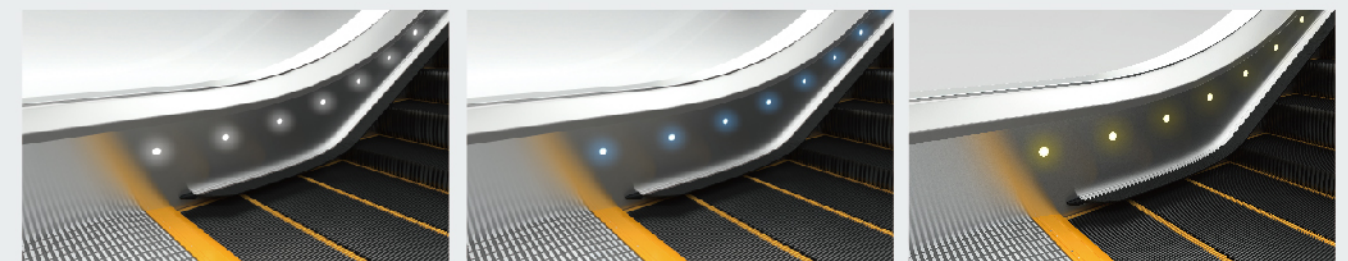
## Comb



High-strength nylon (standard)

Aluminum alloy (optional)

## Skirting lighting



White (optional)

Blue (optional)

Yellow (optional)



# Optional specification

GRE20、GRE30、GRE50、GRM20B、GRM20

Handrail	Green, red, blue, yellow
Balustrade height	1000 (mm)
Illumination	Lighting under upper & lower landing steps/pallets
	Skirting lighting
	Comb lighting
	Handrail lighting
Indicator	Indicator on outer decking
Direction indicator	Running direction indicator on outer decking
Step or pallets	One-piece aluminum
Landing plate	Aluminum alloy (anti-sliding)
Energy control	VVVF
Automatic lubrication system ★★	Real-time lubrication of all transmission components
External cladding	Hairline St.St. / Painted steel /Glass/Mirror st.st.
Heating device ★★	To heat the escalator step route.
Speed	0.65 (m/s)★

★ Only for GRE30、GRE50.  
★★ Standard for outdoor type.

Unintentional reversal protection	Protection against risk of unintentional reversal of the direction of travel.	standard
Phase failure protection	Protection against risk of phase failure.	standard
Short circuit protection	Protection against risk of short circuit.	standard
Over-load protection	Protection against risk of motor continually over load.	standard
Step (pallet) loss protection	It stops when it monitors the step (pallet) loss.	standard
Step(pallet)sagging protection	Protection against risk of steps (pallets) being breakage and sagging.	standard
Step(pallet)chains safety protection	Protection against risk of step (pallets) chains being breakage of undue elongation.	standard
Comb safety guard	Protection against risk of the sundries being trapped at the comb.	standard
Inspection socket	To provide voltage to inspect or maintain.	standard
Machine room guard	One safety plate separates machine room from movable parts such as step to protect service personnel.	standard
Emergency stop button on control cabinet	Push the emergency stop button to stop the escalator (moving walk) against emergency raise when inspection and maintaining.	standard
Handrail speed-detection protection	When handrail speed is 15% lower than the step (pallet) speed, it stops in 15 seconds.	standard
Brake over-distance protection	When the step (pallets) brake distance is 1.2 times larger than the stipulated distance, it prevents it from start again.	standard
Floor anti-start protection	It stops when the floor plate is removed or opened.	standard
Main drive chains safety protection	Protection against risk of drive chains being breakage or undue elongation.	standard
Skirting brush	Brushes on skirting to enhance the passenger's safety.	standard
Host brake detection	When it detects the release condition of the host brake, it prevents it from start before its release.	standard
Skirting guard	Protection against risk of foreign objects being jammed into clearance between steps(pallets) and skirting.	Optional
Anti-crawl device	It prevents the passengers from crawling to external handrail.	Optional
Anti-skid device	It installs outer cover plate which is closed to handrail height. It prevents the passengers from accidental crawl, skid, fall.	Optional
Arrester	It prevents the passengers from entering into the area between wall and handrail, between two escalators (moving walks).	Optional
Protection baffle	Protection baffle is set in the crossing of outer handrail edge and any obstacle.	Optional
Auxiliary brake	When it exceeds 1.4 times of the speed ; the step (pallets) and handrail running direction is opposite to the indicated direction, auxiliary brake stops the escalator (moving walk).	Optional

\*Standard: H>6m

# Safety devices

Static electricity protection of step (pallet)	Eliminate static electricity raised from running of the steps (pallets).	standard
Static electricity protection of handrail	Eliminate static electricity raised from running of the handrail.	standard
Emergency stop button on entrance	Push the emergency stop button to stop the escalator (moving walk) against emergency raise.	standard
Handrail entry safety protection	Protection against risk of the sundries being jammed into handrail entry.	standard
Over speed protection	Protection against risk of speed being over 20% of rated speed.	standard
Under speed protection	Protection against risk of speed being less than 20% of rated speed.	standard

# Install

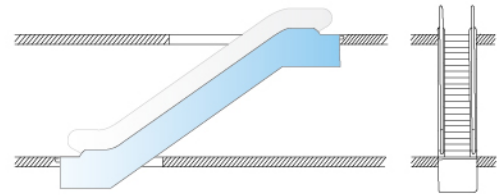
## Arrangement

Reasonable layouts and scientific planning



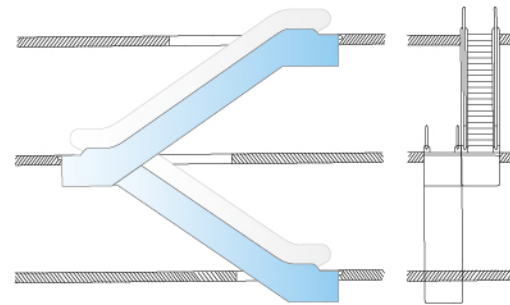
### Single unit

The single unit used to link two levels. It is suitable for buildings with passenger traffic flowing mainly in one direction. Flexible adjustment to traffic flow (e.g. up in the morning and down in the evening) is possible.



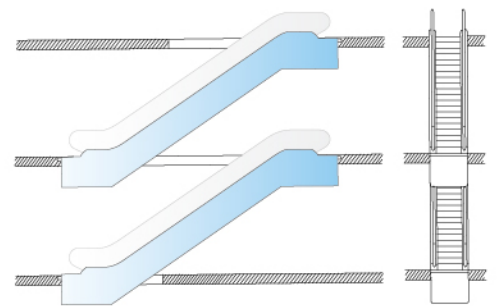
### Continuous arrangement (one-way traffic)

This arrangement is used mainly in smaller department stores to link three sales levels. It requires more space than the interrupted arrangement.



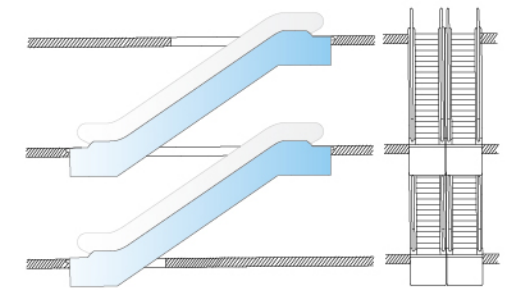
### Interrupted arrangement (one-way traffic)

This arrangement is somewhat inconvenient for users, but advantageous for department store owners, since the short detour to the next unit and the spatial separation between up and down travel is ideal for leading customers past strategically placed advertising displays.



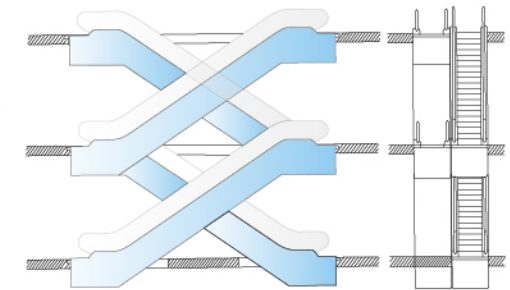
### Parallel, interrupted arrangement (two-way traffic)

This arrangement is used mainly in department stores and public transport buildings with a heavy traffic volume. When there are three or more escalators, it should be possible to reverse the traveling direction according to the traffic flow. This arrangement is economical, since no inner lateral claddings are required.

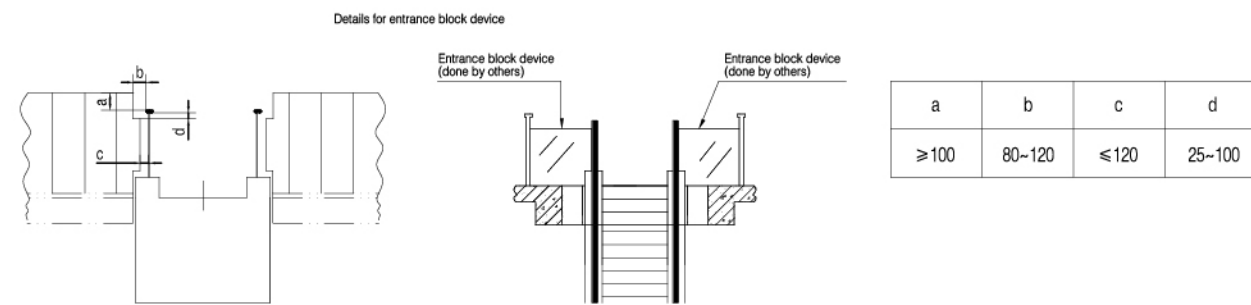
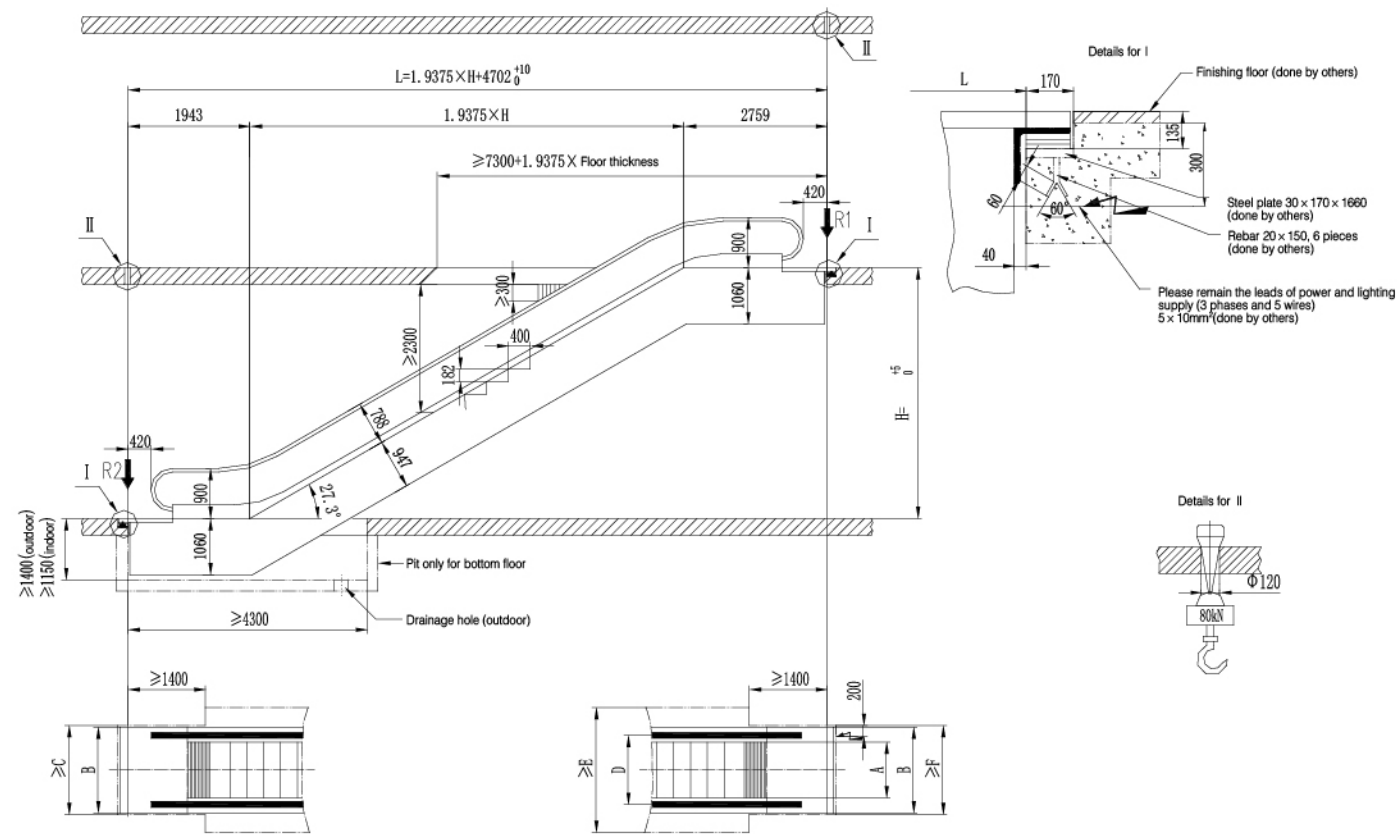


### Crisscross, continuous arrangement (two-way traffic)

This arrangement is used mainly in major department stores, public buildings and public transport buildings where transport times between several levels should be kept to a minimum.



## 27.3° GRE20 escalator construction sketch (Indoor type and outdoor type)



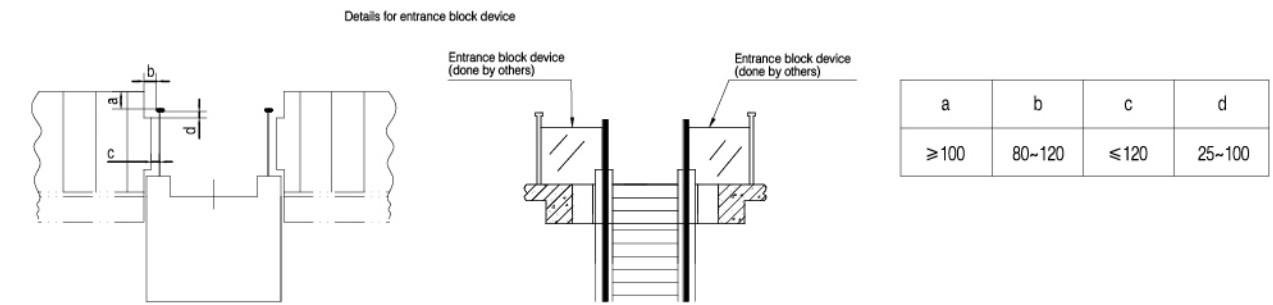
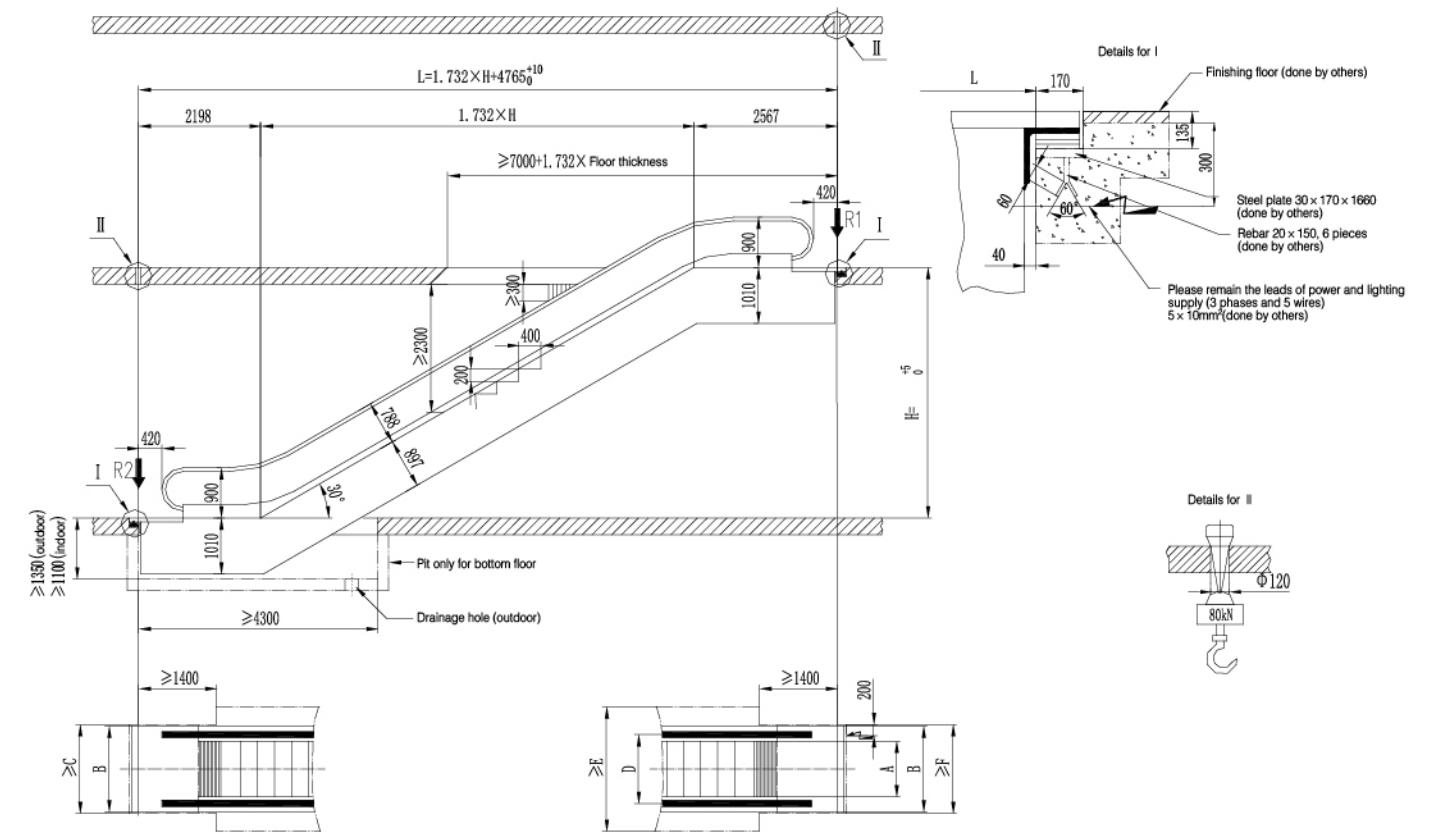
Step width	R1(kN)	R2(kN)	Rise	Motor power		
				1000	800	600
600	3.5xL+15.5	3.5xL+10	3000	5.5kW	5.5kW	5.5kW
			3500			
800	4xL+17	4xL+11	4000	7.5kW	7.5kW	5.5kW
			4500			
1000	4.5xL+18.5	4.5xL+11.5	5000	11kW	7.5kW	7.5kW
			5500			
Remark	L measured by M		6000			

Step width	Escalator external width	Civil opening width	Distance between handrail centers	Civil opening width	Civil opening width
A	B	C	D	E	F
600	1150	1260	838	1838	1260
800	1350	1460	1038	2038	1460
1000	1550	1660	1238	2238	1660

Type	Speed	Rise	Inclination	Supporting force R1	Supporting force R2	Power	
						Power supply	Lighting supply
GRE20	0.5m/s	H= mm	27.3°	kN	kN	380V 50HZ 3P AC	220V 50HZ 1P AC

1. The sketch applies to civil construction of a single arrangement escalator with H≤6m.
2. Upper end of truss should be extended for 417mm once step width 600mm chosen.
3. Size measured by mm, some sizes may be changed. Subject to change without notice.

## 30° GRE20 escalator construction sketch (Indoor type and outdoor type)



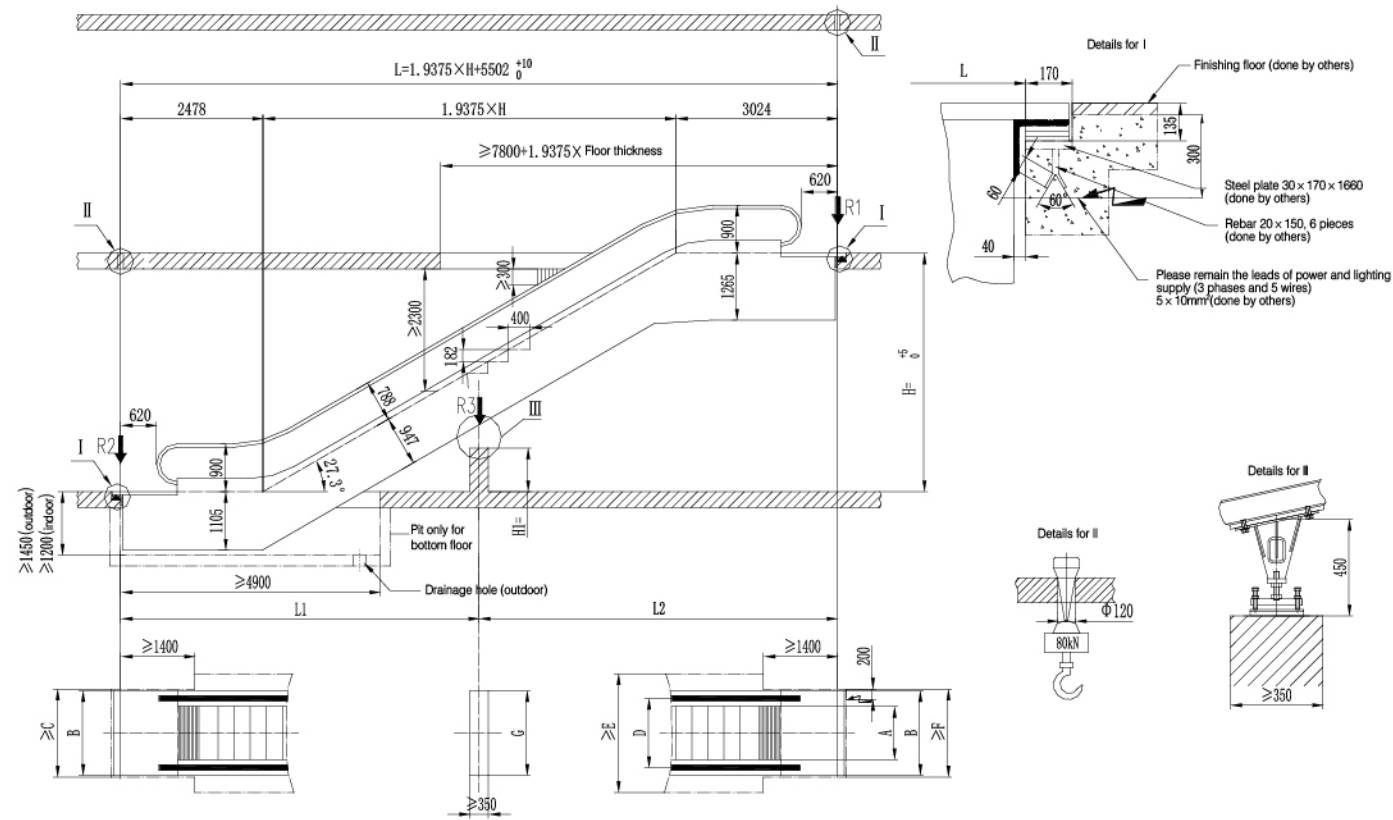
Step width	R1(kN)	R2(kN)	Rise	Motor power		
				1000	800	600
600	3.5xL+15.5	3.5xL+10	3000	5.5kW	5.5kW	5.5kW
			3500			
800	4xL+17	4xL+11	4000	7.5kW	7.5kW	5.5kW
			4500			
1000	4.5xL+18.5	4.5xL+11.5	5000	11kW	7.5kW	7.5kW
			5500			
Remark	L measured by M		6000			

Step width	Escalator external width	Civil opening width	Distance between handrail centers	Civil opening width	Civil opening width
A	B	C	D	E	F
600	1150	1260	838	1838	1260
800	1350	1460	1038	2038	1460
1000	1550	1660	1238	2238	1660

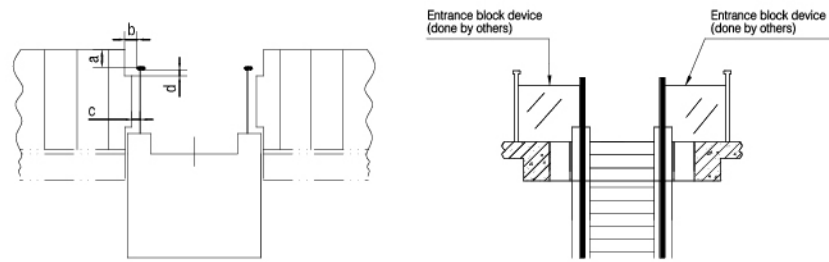
Type	Speed	Rise	Inclination	Supporting force R1	Supporting force R2	Power	
						Power supply	Lighting supply
GRE20	0.5m/s	H= mm	30°	kN	kN	380V 50HZ 3P AC	220V 50HZ 1P AC

1. The sketch applies to civil construction of a single arrangement escalator with H≤6m.
2. Upper end of truss should be extended for 417mm once step width 600mm chosen.
3. Size measured by mm, some sizes may be changed. Subject to change without notice.

## 27.3° GRE20 escalator construction sketch (Indoor type and outdoor type)



Details for entrance block device



a	b	c	d
≥ 100	80-120	≤ 120	25-100

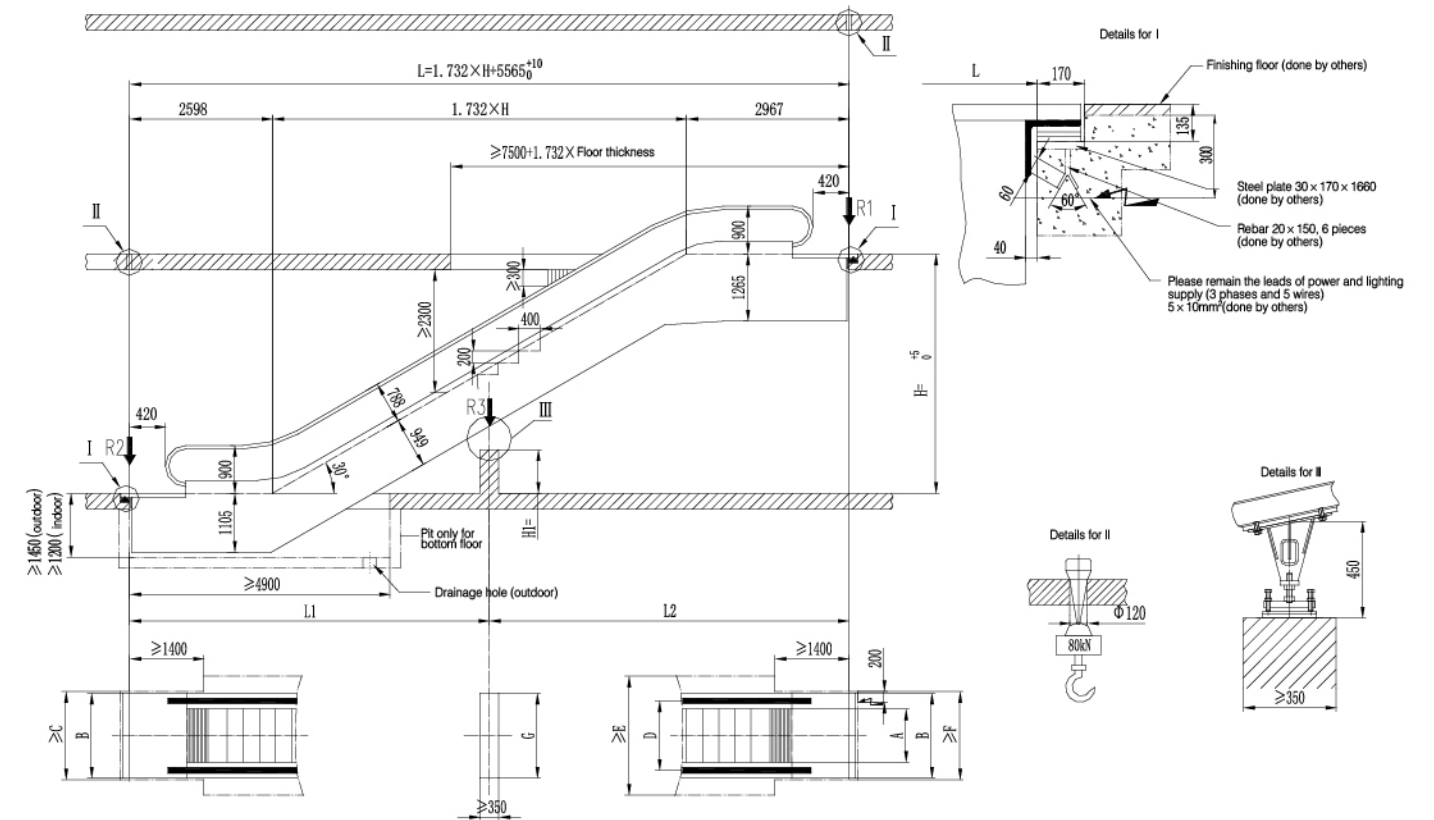
Step width	R1(kN)	R2(kN)	R3(kN)	Rise	Motor power		
					1000	800	600
600	4.1xL2+15.5	4.1xL1+7.8	4.25xL+9.5	6100	15kW	11kW	7.5kW
800	4.5xL2+16.1	4.5xL1+7.8	4.5xL1+10.5	7100			7.5kW
1000	5xL2+18.5	5xL1+8.5	5.2xL+11.5	7900			11kW
Remark	L, L1, L2 measured by M; Value of L1 & L2 less than 15m.						

Step width	Escalator external width	Civil opening width	Distance between handrail centers	Civil opening width	Civil opening width	Support base length
A	B	C	D	E	F	G
600	1150	1260	838	1910	1260	1200
800	1350	1460	1038	2110	1460	1400
1000	1550	1660	1238	2310	1660	1600

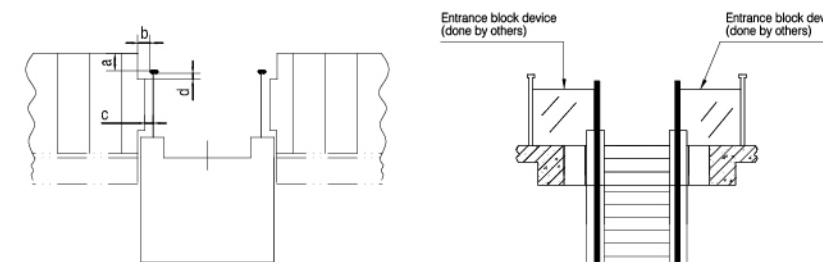
Type	Speed	Rise	Inclination	Supporting force R1	Supporting force R2	Supporting force R3	Power	
							Power supply	Lighting supply
GRE20	0.5m/s	H= mm	27.3°	kN	kN	kN	380V 50HZ 3P AC	220V 50HZ 1P AC

- 1.The sketch applies to civil construction of a single arrangement escalator with  $6m < H < 7.9m$ .
- 2.Upper end of truss should be extended for 417mm once step width 600mm chosen.
- 3.Size measured by mm, some sizes may be changed. Subject to change without notice.

## 30° GRE20 escalator construction sketch (Indoor type and outdoor type)



Details for entrance block device



a	b	c	d
≥ 100	80-120	≤ 120	25-100

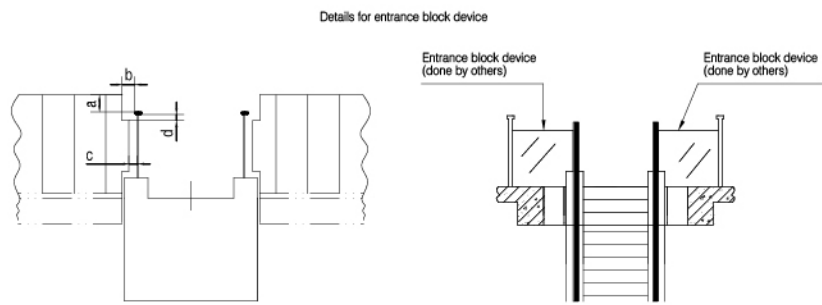
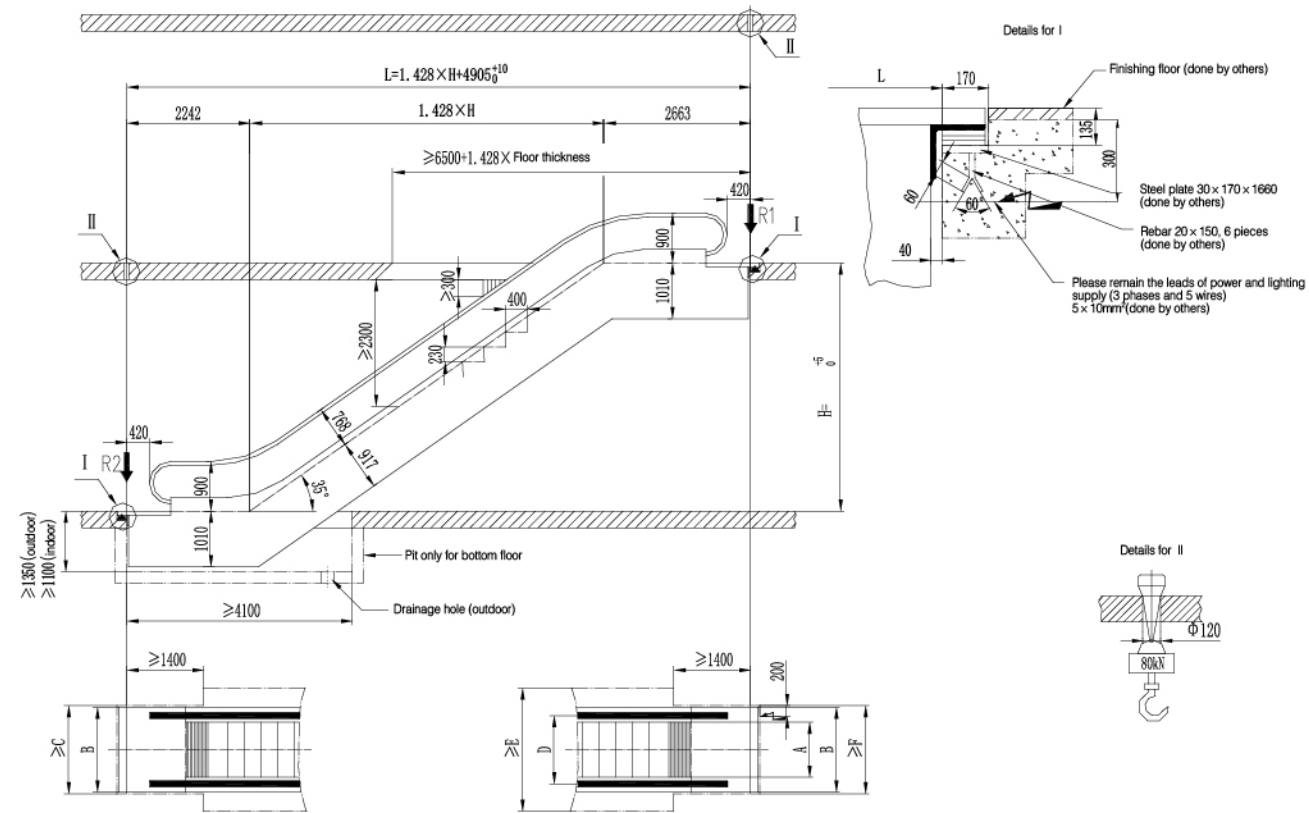
Step width	R1(kN)	R2(kN)	R3(kN)	Rise	Motor power		
					1000	800	600
600	4.1xL2+15.5	4.1xL1+7.8	4.25xL+9.5	6100	15kW	11kW	7.5kW
800	4.5xL2+16.1	4.5xL1+7.8	4.5xL+10.5	7100			7.5kW
1000	5xL2+18.5	5xL1+8.5	5.2xL+11.5	7900			11kW
Remark	L, L1, L2 measured by M; Value of L1 & L2 less than 15m.						

Step width	Escalator external width	Civil opening width	Distance between handrail centers	Civil opening width	Civil opening width	Support base length
A	B	C	D	E	F	G
600	1150	1260	838	1910	1260	1200
800	1350	1460	1038	2110	1460	1400
1000	1550	1660	1238	2310	1660	1600

Type	Speed	Rise	Inclination	Supporting force R1	Supporting force R2	Supporting force R3	Power	
							Power supply	Lighting supply
GRE20	0.5m/s	H= mm	30°	kN	kN	kN	380V 50HZ 3P AC	220V 50HZ 1P AC

- 1.The sketch applies to civil construction of a single arrangement escalator with  $6m < H < 7.9m$ .
- 2.Upper end of truss should be extended for 417mm once step width 600mm chosen.
- 3.Size measured by mm, some sizes may be changed. Subject to change without notice.

## 35° GRE20 escalator construction sketch (Indoor type and outdoor type)



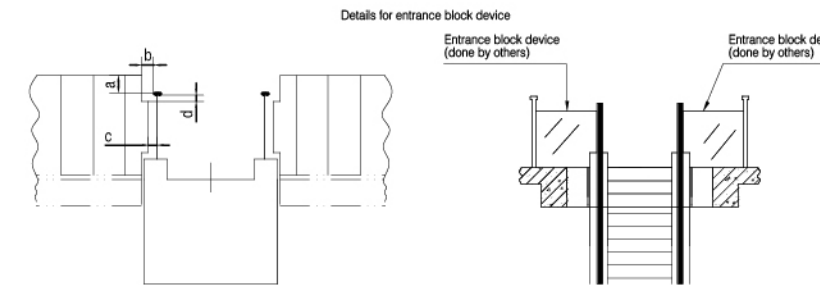
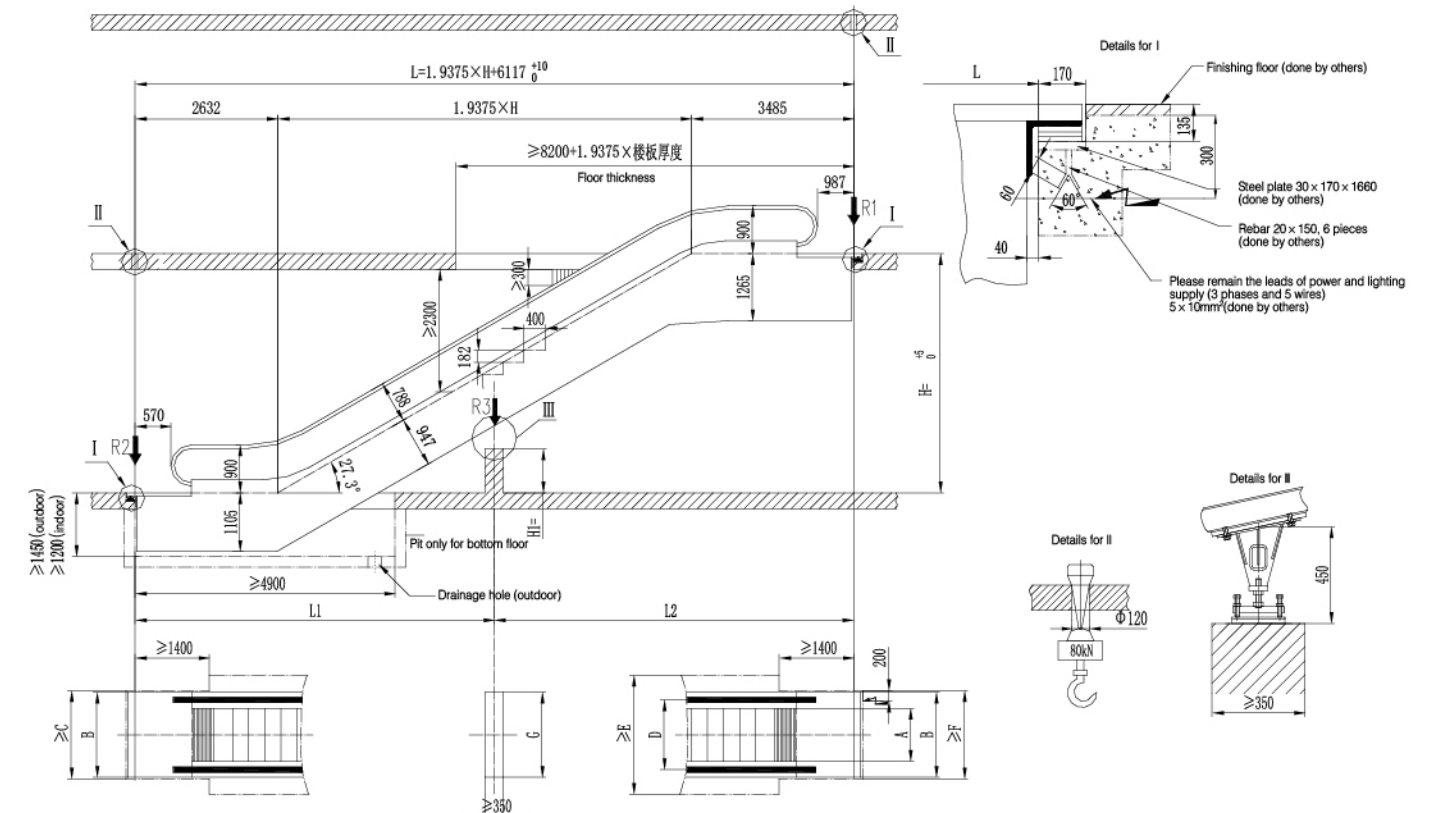
Step width	R1(kN)	R2(kN)	Rise	Motor power		
				1000	800	600
600	3.5xL+15.5	3.5xL+10	3000	5.5kW	5.5kW	5.5kW
			3500			
800	4xL+17	4xL+11	4000	7.5kW	7.5kW	5.5kW
			4500			
1000	4.5xL+18.5	4.5xL+11.5	5000	11kW	7.5kW	5.5kW
			5500			
备注 Remark	L单位为m L measured by M		6000			

Step width	Escalator external width	Civil opening width	Distance between handrail centers	Civil opening width	Civil opening width
A	B	C	D	E	F
600	1150	1260	838	1838	1260
800	1350	1460	1038	2038	1460
1000	1550	1660	1238	2238	1660

Type	Speed	Rise	Inclination	Supporting force R1	Supporting force R2	Power	
						Power supply	Lighting supply
GRE20	0.5m/s	H= mm	35°	kN	kN	380V 50HZ 3P AC	220V 50HZ 1P AC

- The sketch applies to civil construction of a single arrangement escalator with H≤6m.
- Upper end of truss should be extended for 417mm once step width 600mm chosen.
- Size measured by mm, some sizes may be changed. Subject to change without notice.

## 27.3° GRE30 escalator construction sketch (Indoor type and outdoor type)



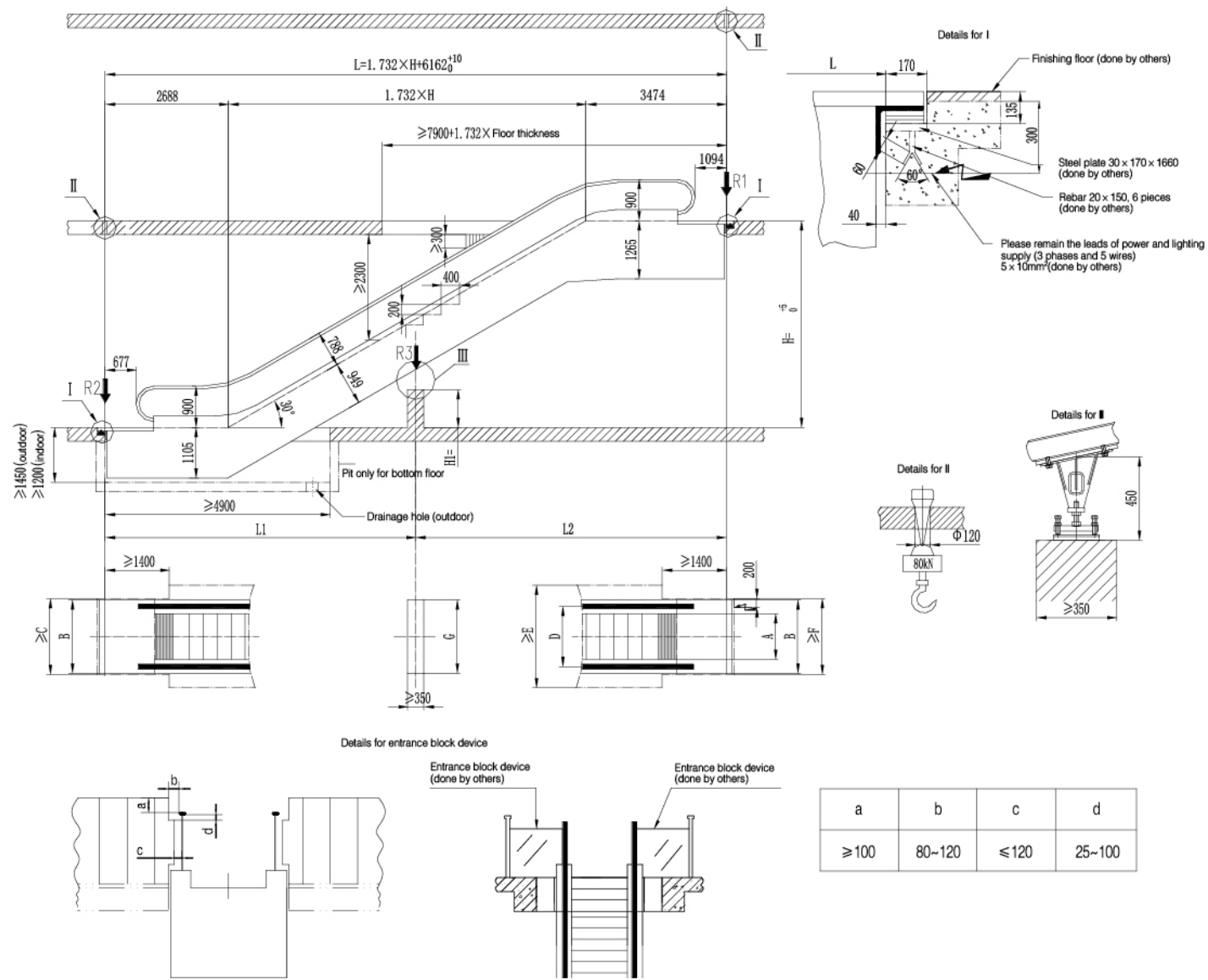
Step width	R1(kN)	R2(kN)	R3(kN)
800	4.5xL2+17.1	4.5xL1+8.8	4.5xL+11.5
1000	5xL2+18.5	5xL1+9.5	5.2xL+12.5
Remark	L, L1, L2 measured by M; Value of L1 & L2 less than 15m.		

Step width	Escalator external width	Civil opening width	Distance between handrail centers	Civil opening width	Civil opening width	Support base length
A	B	C	D	E	F	G
800	1400	1460	1038	2110	1460	1400
1000	1600	1660	1238	2310	1660	1600

Type	Speed	Rise	Inclination	Supporting force R1	Supporting force R2	Supporting force R3	Power	
							Power supply	Lighting supply
GRE30	0.5m/s (0.65m/s)	H= mm	27.3°	kN	kN	kN	380V 50HZ 3P AC	220V 50HZ 1P AC

- The sketch applies to civil construction of a single arrangement escalator with 7.9m < H < 13m.
- Size measured by mm, some sizes may be changed. Subject to change without notice.

## 30° GRE30 escalator construction sketch (Indoor type and outdoor type)



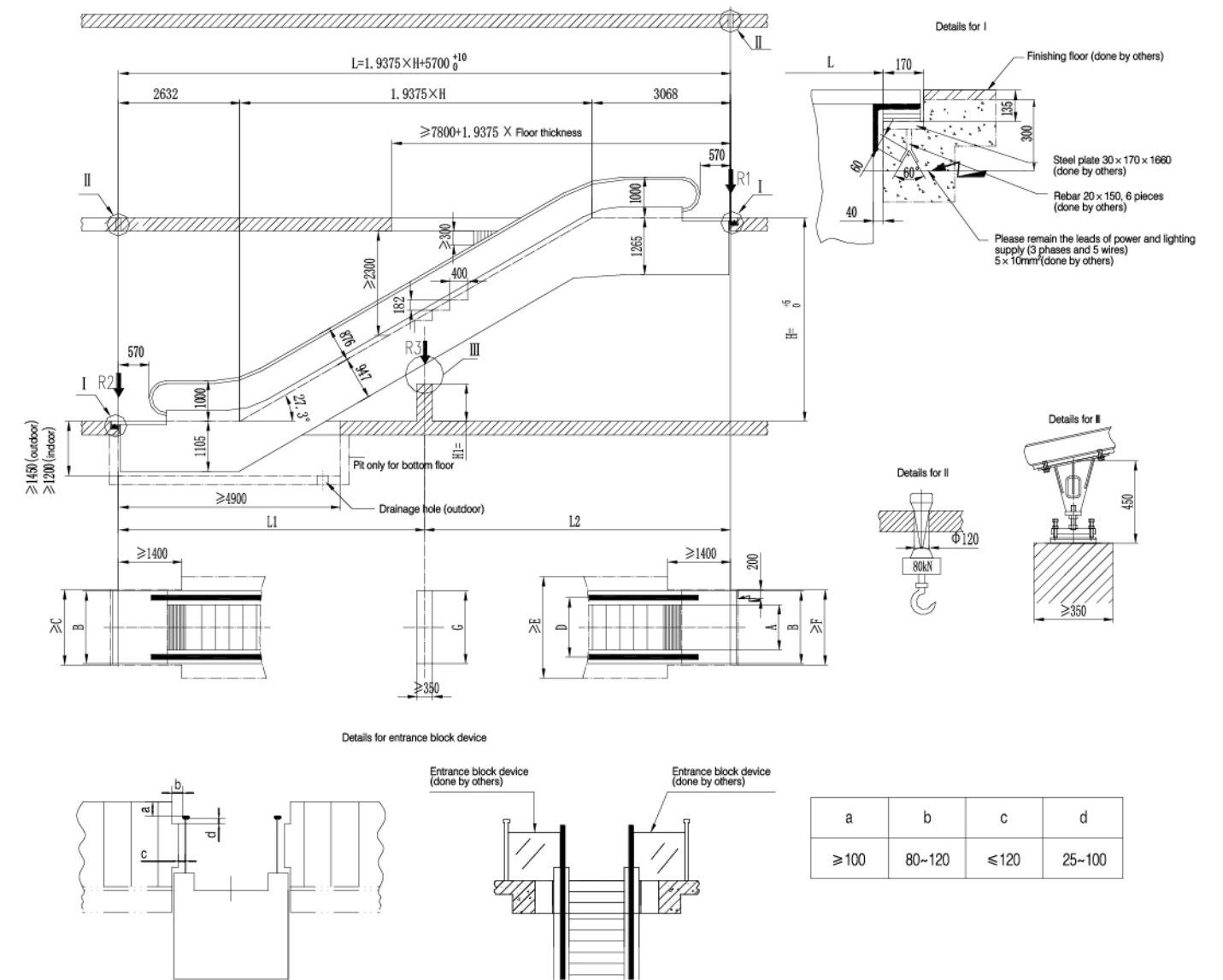
Step width	R1 (kN)	R2 (kN)	R3 (kN)
800	4.5xL2+17.1	4.5xL1+8.8	4.5xL+11.5
1000	5xL2+18.5	5xL1+9.5	5.2xL+12.5
Remark	L, L1, L2 measured by M; Value of L1 & L2 less than 15m.		

Step width	Escalator external width	Civil opening width	Distance between handrail centers	Civil opening width	Civil opening width	Support base length
A	B	C	D	E	F	G
800	1400	1460	1038	2110	1460	1400
1000	1600	1660	1238	2310	1660	1600

Type	Speed	Rise	Inclination	Supporting force R1	Supporting force R2	Supporting force R3	Power	
							Power supply	Lighting supply
GRE30	0.5m/s (0.65m/s)	H= mm	30°	kN	kN	kN	380V 50HZ 3P AC	220V 50HZ 1P AC

1. The sketch applies to civil construction of a single arrangement escalator with 7.9m < H < 13m.  
2. Size measured by mm, some sizes may be changed. Subject to change without notice.

## 27.3° GRE50 public transport escalator construction sketch (Indoor type and outdoor type)



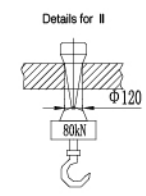
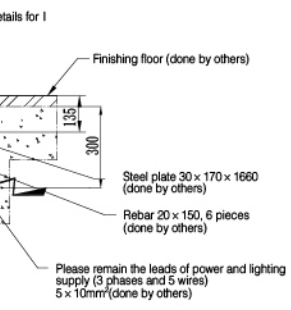
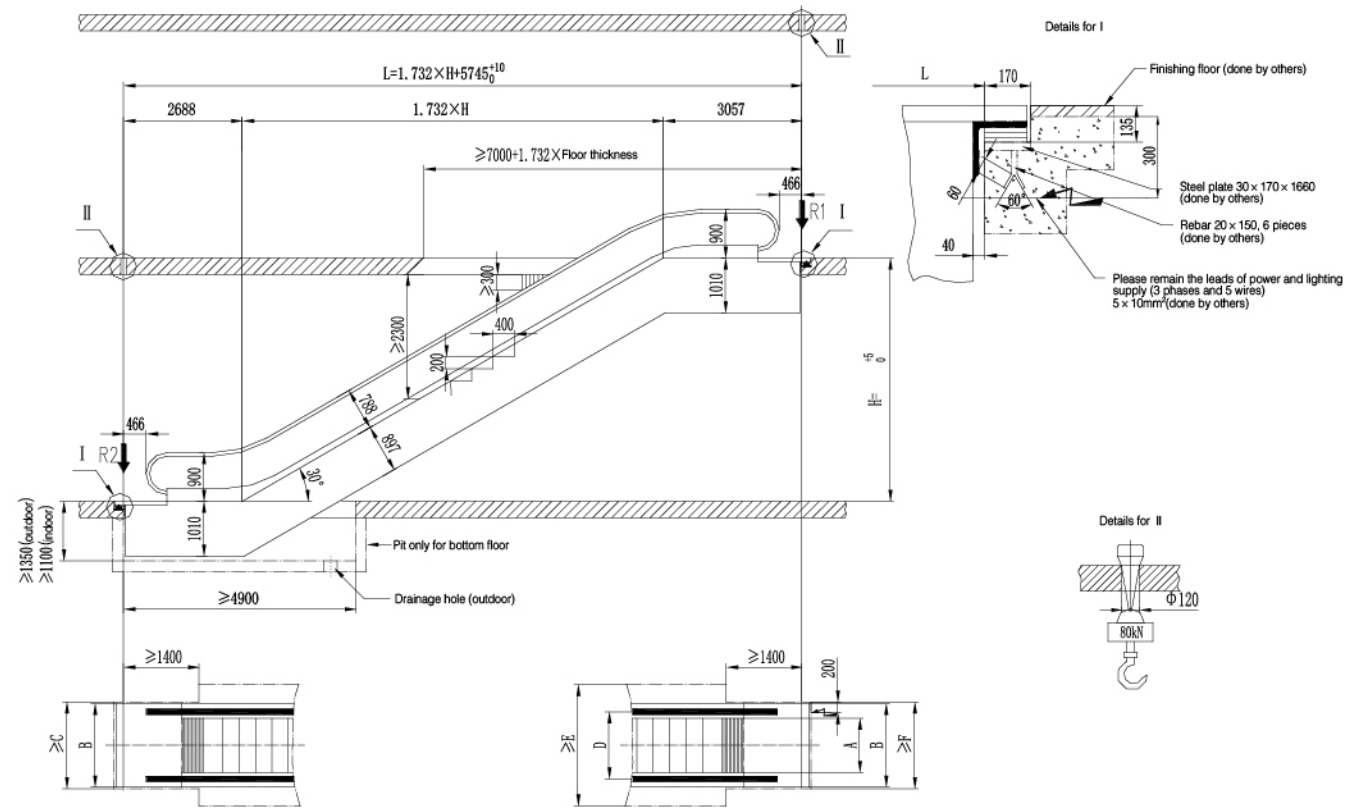
Step width	R1 (kN)	R2 (kN)	R3 (kN)
600	4.1xL2+16.5	4.1xL1+8.8	4.25xL+10.5
800	4.5xL2+17.1	4.5xL1+8.8	4.5xL+11.5
1000	5xL2+18.5	5xL1+9.5	5.2xL+12.5
Remark	L, L1, L2 measured by M; Value of L1 & L2 less than 15m.		

Step width	Escalator external width	Civil opening width	Distance between handrail centers	Civil opening width	Civil opening width	Support base length
A	B	C	D	E	F	G
600	1200	1260	838	1910	1260	1200
800	1400	1460	1038	2110	1460	1400
1000	1600	1660	1238	2310	1660	1600

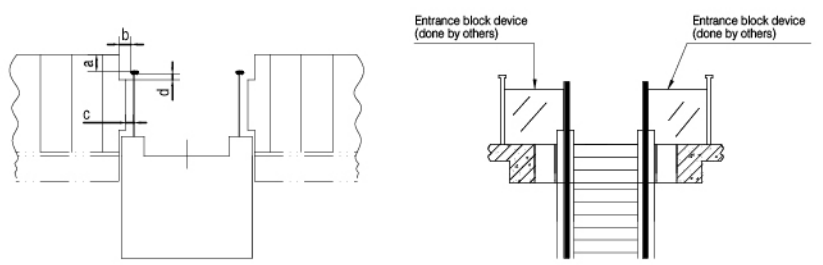
Type	Speed	Rise	Inclination	Supporting force R1	Supporting force R2	Supporting force R3	Power	
							Power supply	Lighting supply
GRE50	0.5m/s (0.65m/s)	H= mm	27.3°	kN	kN	kN	380V 50HZ 3P AC	220V 50HZ 1P AC

1. The sketch applies to civil construction of a single arrangement escalator with 6m < H < 30m.  
2. Upper end of truss should be extended for 417mm once step width 600mm chosen.  
3. Size measured by mm, some sizes may be changed. Subject to change without notice.

# 30° GRE50 public transport escalator construction sketch (Indoor type and outdoor type)



Details for entrance block device



a	b	c	d
≥ 100	80-120	≤ 120	25-100

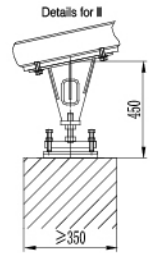
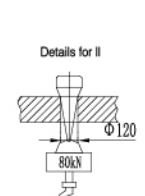
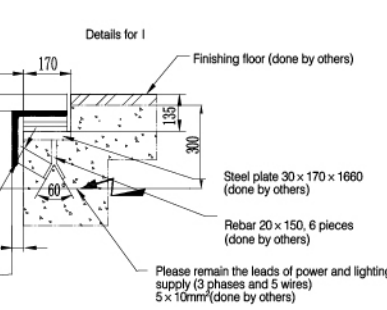
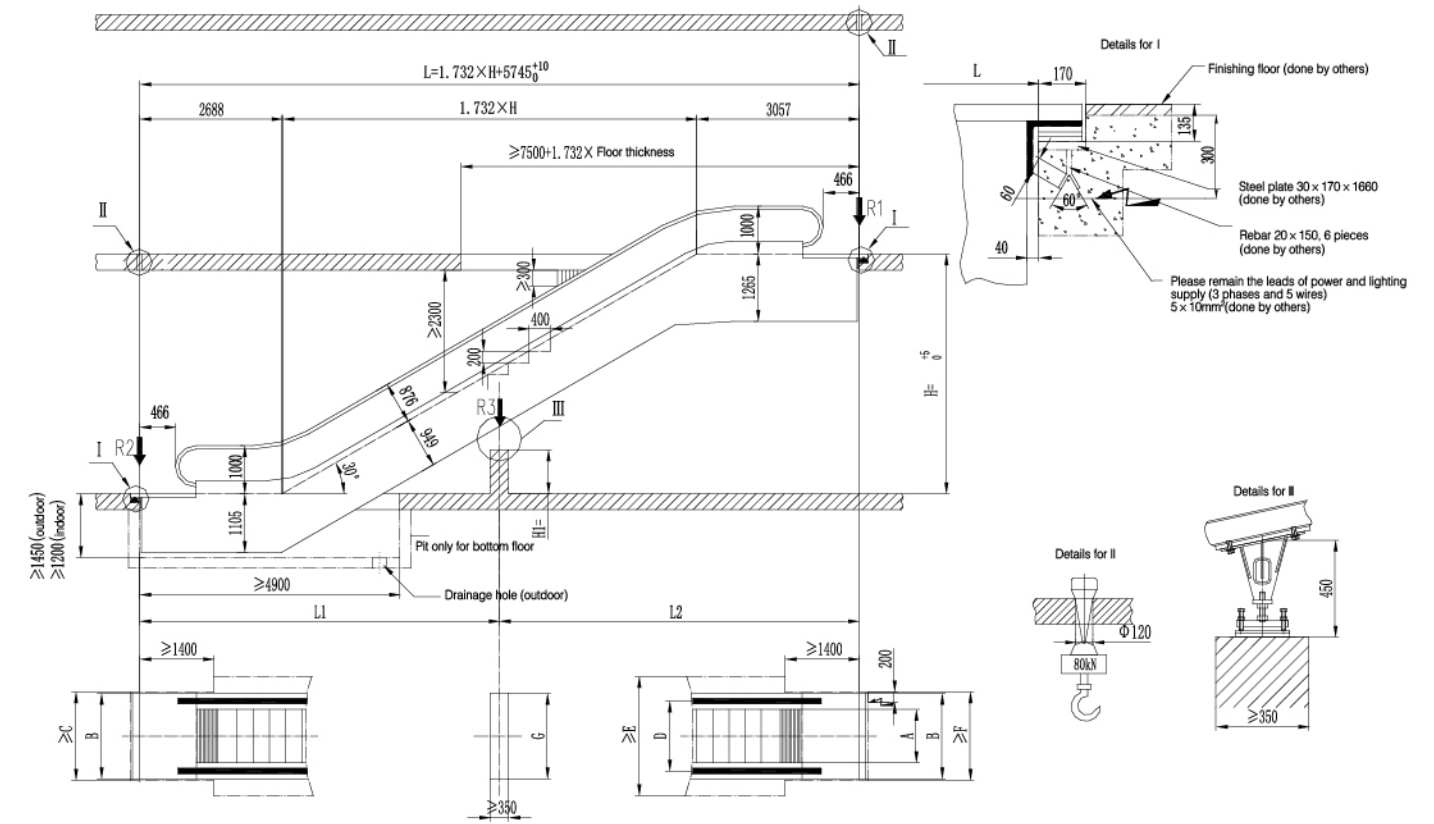
Step width	R1(kN)	R2(kN)	Rise	Motor power		
				1000	800	600
600	3.5xL+16.5	3.5xL+11	3000	5.5kW	5.5kW	5.5kW
			3500			
800	4xL+18	4xL+12	4000	7.5kW	7.5kW	5.5kW
			4500			
1000	4.5xL+19.5	4.5xL+12.5	5000	11kW	7.5kW	5.5kW
			5500			
Remark	L measured by M					

Step width	Escalator external width	Civil opening width	Distance between handrail centers	Civil opening width	Civil opening width
A	B	C	D	E	F
600	1200	1260	838	1838	1260
800	1400	1460	1038	2038	1460
1000	1600	1660	1238	2238	1660

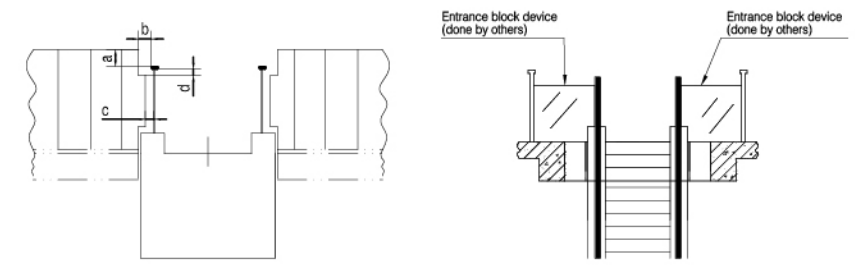
Type	Speed	Rise	Inclination	Supporting force R1	Supporting force R2	Power	
						Power supply	Lighting supply
GRE50	0.5m/s	H= mm	30°	kN	kN	380V 50HZ 3P AC	220V 50HZ 1P AC

1. The sketch applies to civil construction of a single arrangement escalator with H≤6m.  
 2. Upper end of truss should be extended for 417mm once step width 600mm chosen.  
 3. Size measured by mm, some sizes may be changed. Subject to change without notice.

# 30° GRE50 public transport escalator construction sketch (Indoor type and outdoor type)



Details for entrance block device



a	b	c	d
≥ 100	80-120	≤ 120	25-100

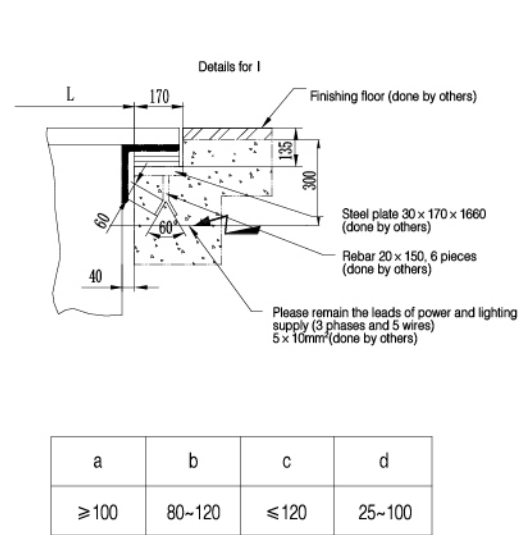
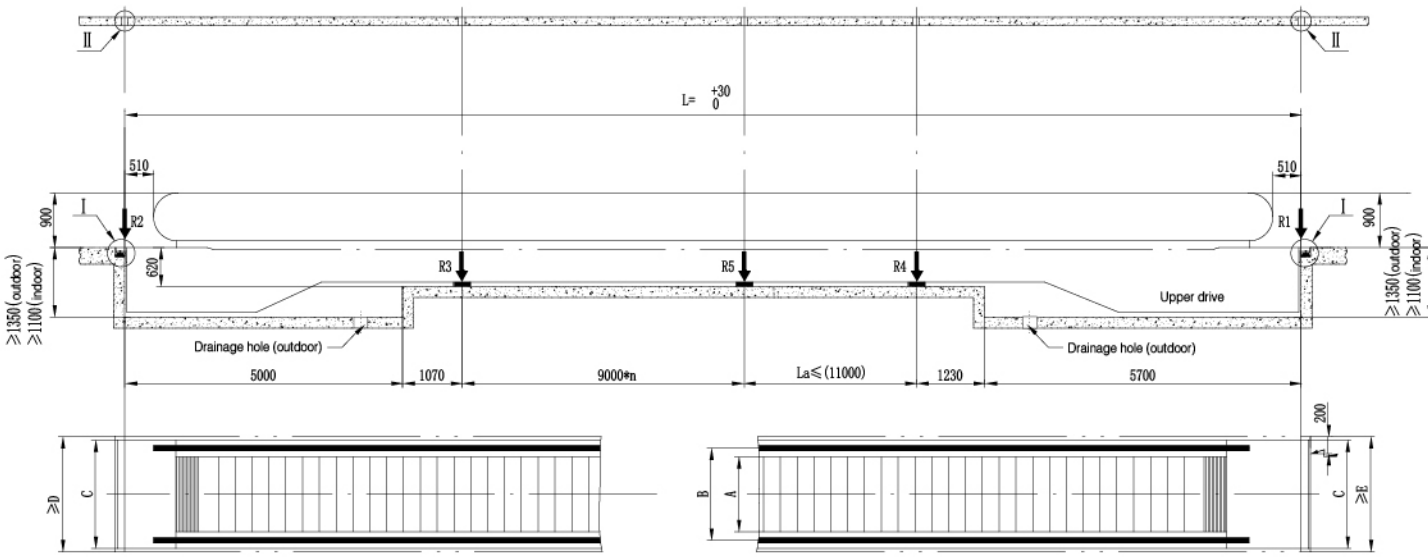
Step width	R1(kN)	R2(kN)	R3(kN)
600	4.1xL2+16.5	4.1xL1+8.8	4.25xL+10.5
800	4.5xL2+17.1	4.5xL1+8.8	4.5xL+11.5
1000	5xL2+18.5	5xL1+9.5	5.2xL+12.5
Remark	L, L1, L2 measured by M; Value of L1 & L2 less than 15m.		

Step width	Escalator external width	Civil opening width	Distance between handrail centers	Civil opening width	Civil opening width	Support base length
A	B	C	D	E	F	G
600	1200	1260	838	1910	1260	1200
800	1400	1460	1038	2110	1460	1400
1000	1600	1660	1238	2310	1660	1600

Type	Speed	Rise	Inclination	Supporting force R1	Supporting force R2	Supporting force R3	Power	
							Power supply	Lighting supply
GRE50	0.5m/s (0.65m/s)	H= mm	30°	kN	kN	kN	380V 50HZ 3P AC	220V 50HZ 1P AC

1. The sketch applies to civil construction of a single arrangement escalator with 6m < H ≤ 30m.  
 2. Upper end of truss should be extended for 417mm once step width 600mm chosen.  
 3. Size measured by mm, some sizes may be changed. Subject to change without notice.

# 0° GRM20B moving walk construction sketch (Indoor type and outdoor type)

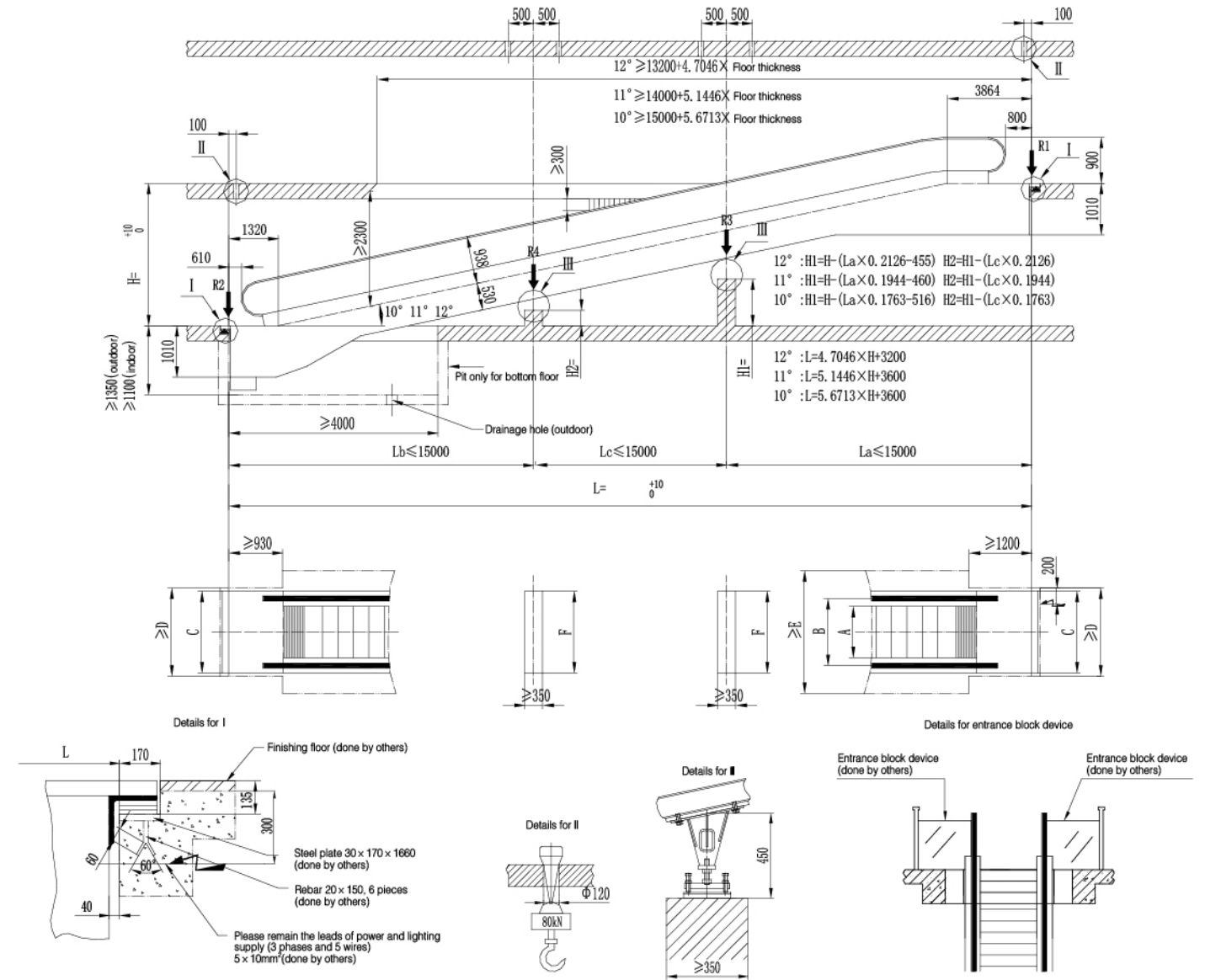


Pallet width	800	1000	Pallet width	800	1000
R1	32kN	36kN	A	800	1000
R2	31kN	33kN	B	1100	1310
R3	49kN	55kN	C	1400	1600
R4	50kN	57kN	D	1460	1660
R5	43kN	51kN	E	1460	1660

Type	Speed	Horizontal span	Inclination	Supporting force R1	Supporting force R2	Supporting force R3	Supporting force R4	Supporting force R5	Power			
									Power supply		Lighting supply	
									380V 50HZ 3P AC	220V 50HZ 1P AC		
GRM20B	0.5m/s	L= mm	0°	kN	kN	kN	kN	kN				

1. The sketch applies to civil construction of a single arrangement moving walk with L < 150m.  
2. Size measured by mm, some sizes may be changed. Subject to change without notice.

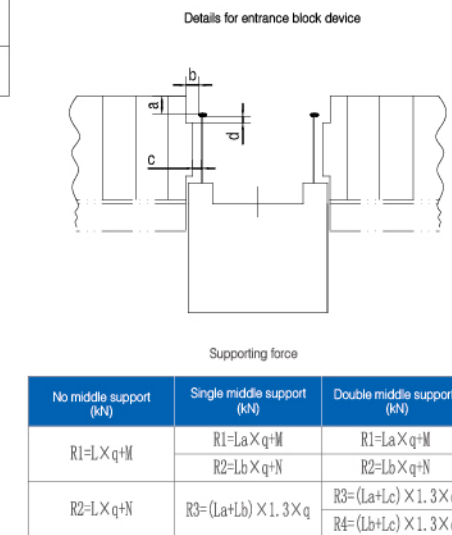
# 10°, 11°, 12° GRM20 moving walk construction sketch (Indoor type and outdoor type)



a	b	c	d
≥100	80-120	≤120	25-100

Supporting force	q	M	N	Pallet width		
				800	1000	
800	0.0039	9.5	4.5	A	800	1000
1000	0.0045	11	5	B	1110	1310
				C	1400	1600
				D	1460	1660
				E	2110	2310
				F	1400	1600

1. The sketch applies to civil construction of a single arrangement moving walk with H < 8m.  
2. Size measured by mm, some sizes may be changed. Subject to change without notice.



Specification	
Type	GRM20
Speed	0.5m/s
Rise	H = mm
Inclination	10° 11° 12°
Supporting force R1	kN
Supporting force R2	kN
Supporting force R3	kN
Supporting force R4	kN
Power	Power supply
	Lighting supply
	Three-phase 380V 50HZ 3P AC
	Simplex 220V 50HZ 1P AC