 NEVER COMPROMISE ON QUALITY AND SAFETY

ESCALATOR &
PASSENGER MOVING WALK

 **Schneider**TM
Lift & Escalator
Since 1992
www.asia-schneider.com 02 948 1663

Standard Functions



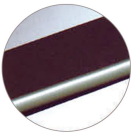
Handrail Inlet

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.



Automatic Oiling

Automatic oiling and lubricating system fulfills the ideal automatic lubrication to the transmission chain during the running process of the escalator, it not only reduces the daily repair and maintenance work load, but also prolongs the service life of the driving mechanism.



Handrail Color

Black(Standard)



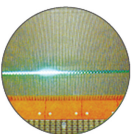
The Glass wainscot color

Colorless and transparent(standard)



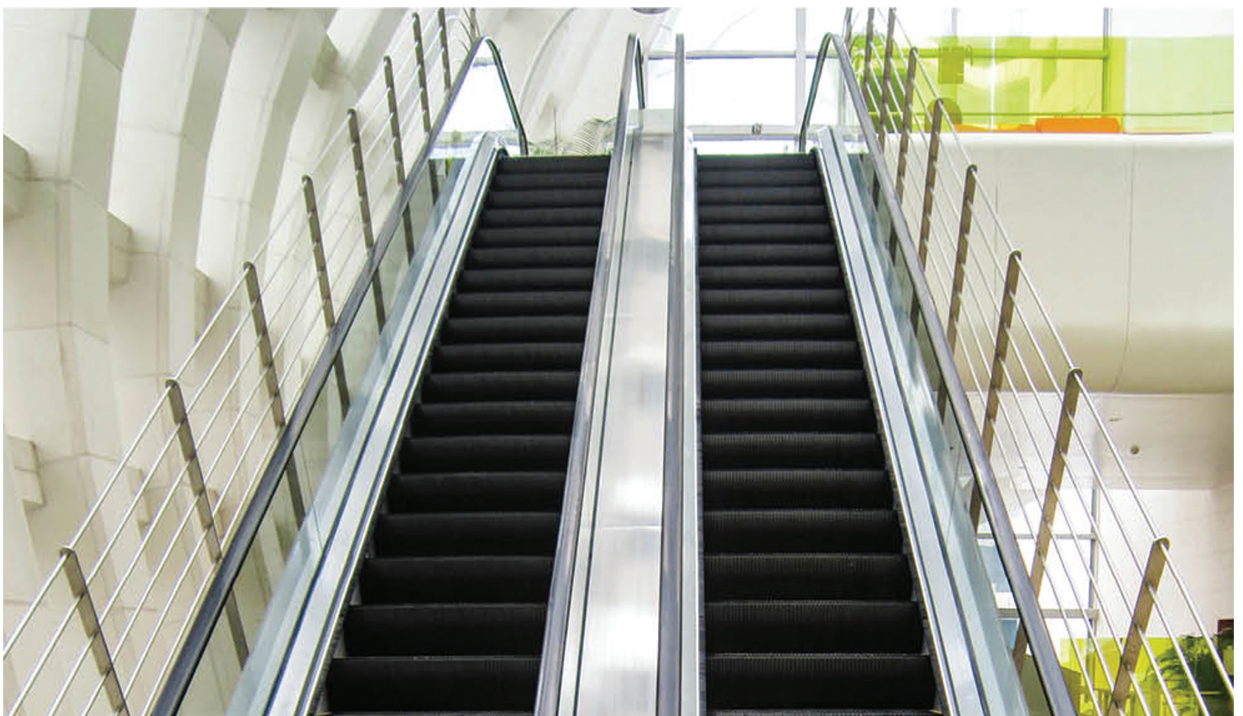
Step chain-roller inbuilt

The roller has been internally installed in the specially-designed roller step chain, it can effectively fulfill the reduction of the noise during the driving process and bring about a more smooth and quiet operation.



Demarcation Lamp

Green fluorescent lamp is installed in upper / lower step tread, when two connecting steps stagger, green fluorescent gives light through step teeth, it helps the passenger identify entry / exit horizontal steps segments and enhances the travel safety.



Optional Functions



Fault display

When some defect takes place, the trouble code will be displayed in the defect screen, it ensures the effective and accurate trouble position within the shortest time possible, In this way, it greatly enhances the repair and maintenance efficiency.



Running direction indication

The direction and forbidding the use of novel display identifies a long circular structure, placed inside the cover on the escalator entrance, simple and elegant, easy to watch the operation of the escalator or the forbidden line instructions to ensure the safety of passenger the freedom to ride.



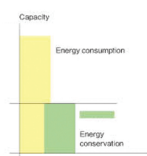
Oil / water separator (Apply to outdoor type)

It separates the escalator oil and water, Rain exhausts through oil / water separator, We regularly clean oil mainly for the environmental protection purpose.



Comb illumination

The illumination has been installed in the skirt panel near the comb plate, It offers the lighting for the step and the comp plate, it is more convenient for the passengers to up and down the escalator.



Energy saving operation modes

It can adopt variable frequency control or the automatic starting mode to fulfill the energy saving.



Heating device

Each escalator usually installs three heating devices, One is beside the host in the upper machine room, It mainly heats the host, The second is installed in the mid escalator, And the third is the lower part, It mainly heats the whole escalator.



Automatic start / stop travel device

The sensor is near the floor plate to detect the approaching passengers it will start automatically, it will start automatically stop when all the passengers leave the lift.

Handrail color

Blue



Shallow bluish green



Light brown



Gray



Red



Orange



The glass wainscot color





AEH Escalator integrates the aesthetics, safety, environmental protection into one according to the harmonious transport ideas. It is custom-made for public traffic. It can endure the harshest environmental checks. It is an effective heavy-duty escalator transport solution plan.

With good waterproof equipment and reliable safety functions, it is an ideal choice for outdoor use i.e outside, metro, underground market, over-bridge etc. Its design is flexible and reliable, safe and secure.

The **AES Escalator** fully apply the novel materials and the advanced domestic and overseas technology for design and manufacture. The escalators have the consummate structure, elaborate stairway, delicate belt, and attractive outline. They are widely use for large passenger flow areas such as shopping centers, supermarkets, subways, airports and more. It adds a charming mobile view for vast constructions.



❑ LONG LIFE

The truss utilizes first class rectangle steel with unique structure, high strength and nice anti-corruption durable features.

❑ STRONG GENERAL PURPOSE

The overall design is concise and smooth and compatible.

❑ MORE ADVANCED

The advanced international craftsmanship ensures the accuracy of steps.

❑ LESS NOISE

The large size diameter of step roller operates minimizes the noise and prolongs the product life.

❑ MONITORED RUNNING

The super CPU main board monitors the operation in real time. If any abnormal situation occurs, it automatically brakes and records the malfunctions code.

❑ ELEGANT AND ATTRACTIVE

With aluminium alloy front plates, the products have an exquisite and elegant appearance.

❑ HIGH EFFICIENCY & ENERGY-SAVING

Customer can choose VVVF control to control running speed, the energy saving performance is obvious, it can prolong product life and reduce the operation cost.

❑ SECURE

The human-oriented handrail entrance is secured by brush.

Moving-walk Elevates the shopping to a newly concise and comfortable experience. It does not only satisfy the conveying problem of large passenger flow, but also meets the requirements of long-distance walk, carrying luggage cart, baby cart, shopping cart and wheelchair for handicapped. It is greatly convenient for people's travelling experience and shopping.



□ SPACE SAVING

Compact structure, ease strain: Short pallets can greatly reduce space span which can flexibly fits the building structure and save the construction space for the customer.

It comprises H version (horizontal), I version (Incline) and C version (Compact) can let customer have a free choice on his original layout.

□ STABLE AND RELIABLE

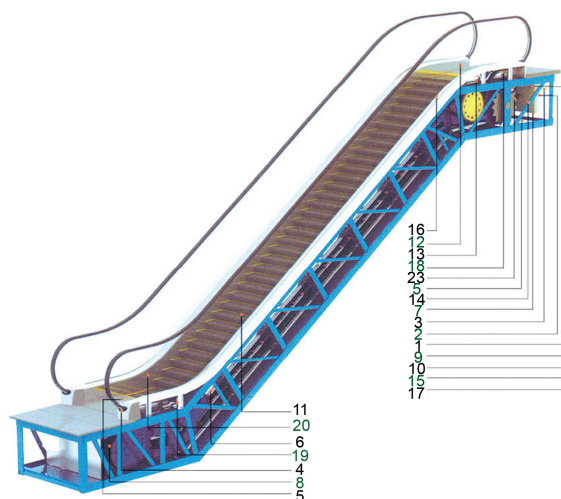
Stable and reliable investment: The pallet directly connecting with the chain which makes the running more smooth and quiet, thus the service life extends and its maintenance can be easily conducted, specially designed big wheel handrail drive runs in low-noise and big power which improves the running condition of the handrail, its life hence prolonged. Unique tube structure has a big load capacity, which improves the overall stability and service life.

□ DECORATIVE

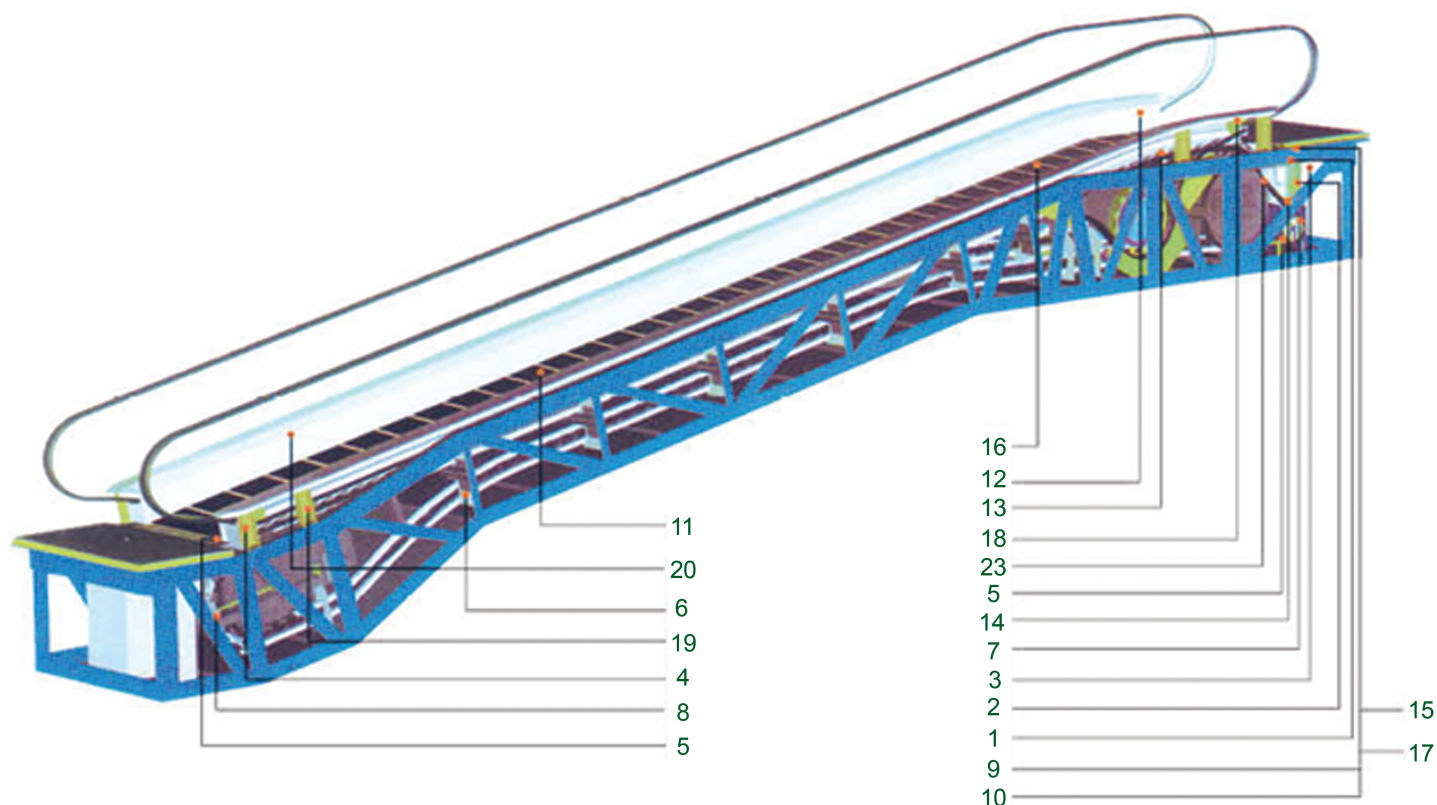
Colorful decoration: Various styled handrail can meet personal demand in different environments. Beautiful stainless steel floor plate has three-dimension effect, inner and outer decking adopts stainless steel.

□ ECO-FRIENDLY

Incomparable economical: The moving walk fully utilizes advance manufacturing process, greatly improves product performance and service life. The most direct result is that the operation cost of the customer is reduced. The optional VF drive technology yields great energy saving, reducing the running cost to the minimum.

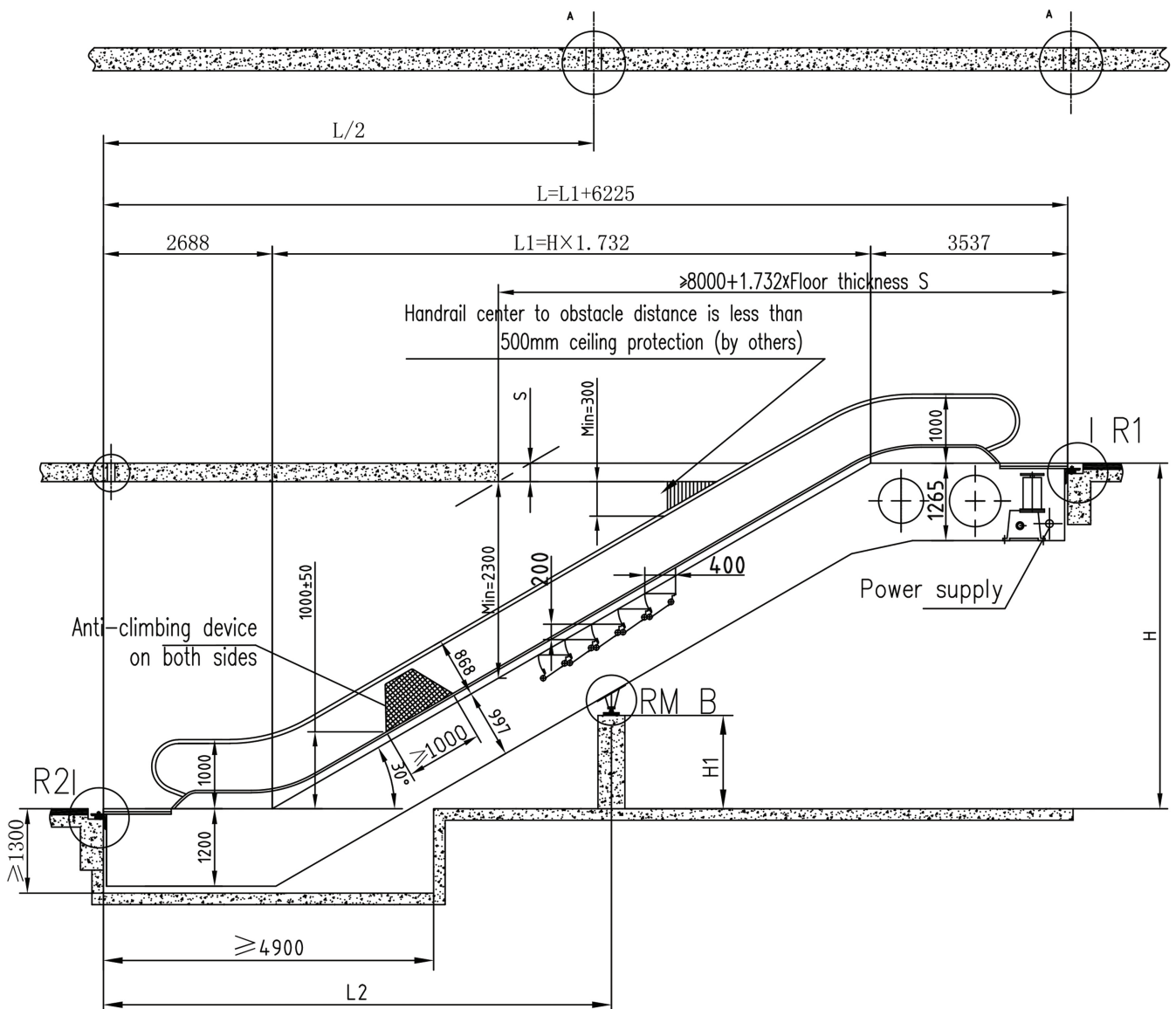
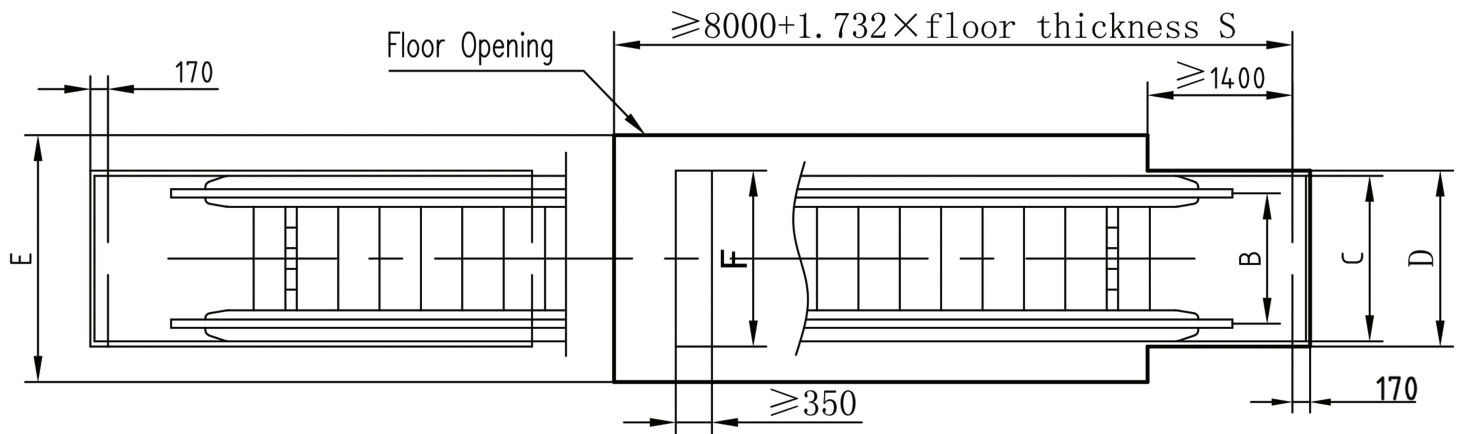


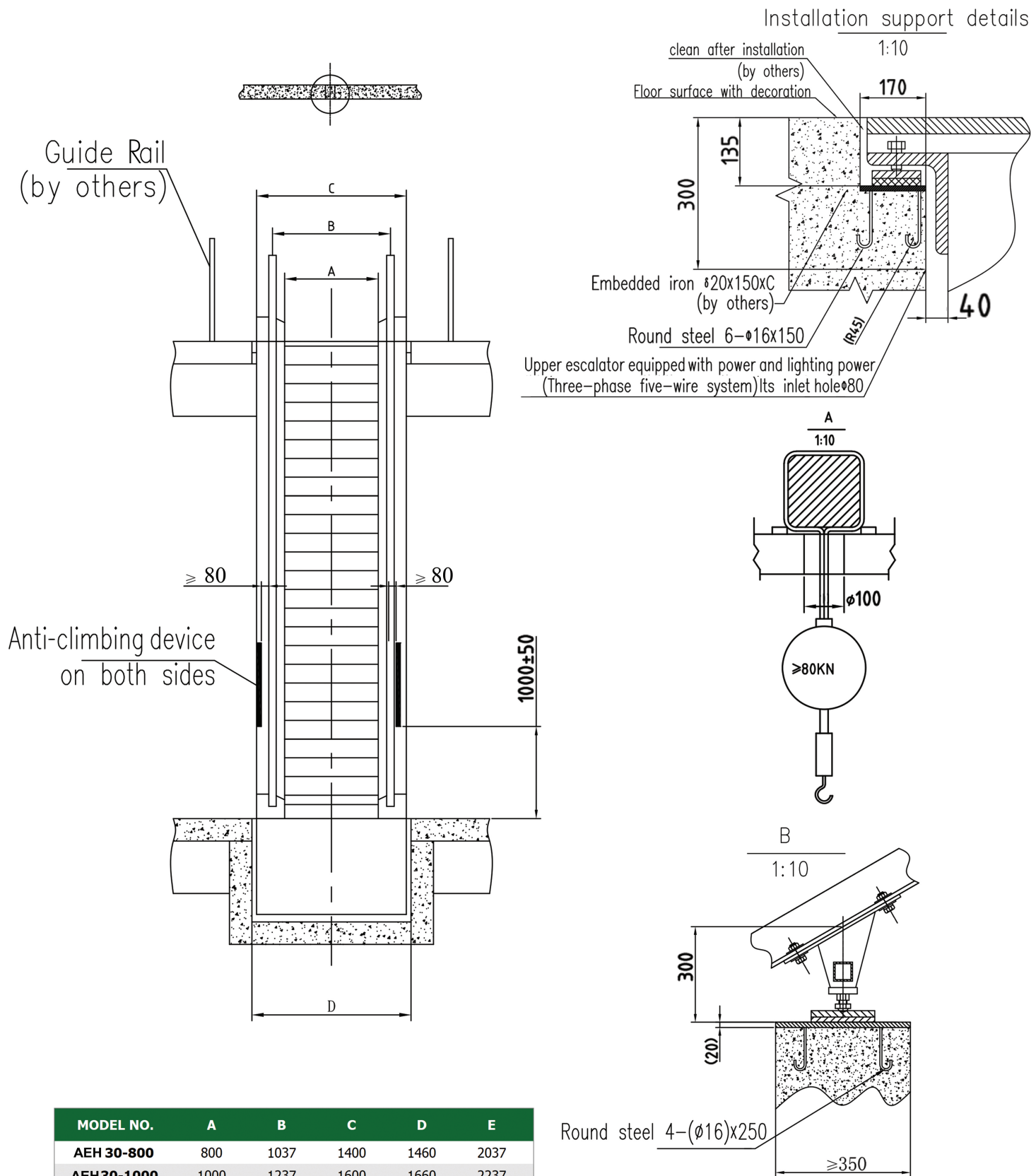
STANDARD SAFETY DEVICE		DESCRIPTION
1.	ERROR PHASE PROTECTION	If lack phase or error phase has been detected, the escalator will automatically stop the operation.
2.	MOTOR OVER-LOAD PROTECTION	When the current exceeds 15% of the current rating the escalator will automatically stop the operation.
3.	ELECTRICAL APPLIANCE LOOP PROTECTION	It offers the automatic circuit disconnecting device to protect the circuit and main components of the escalator.
4.	HANDRAIL INLET PROTECTION	When some foreign substance has been clipped in the handrail inlet, the escalator will automatically stop the operation.
5.	COMB PLATE SAFETY DEVICE	When some foreign substance has been clipped in or between the combs, the escalator will automatically stop the operation.
6.	STEP SAGGING PROTECTION DEVICE	When there is abnormal step bending, the escalator will stop the operation before the step entering into comb plate.
7.	BROKEN DRIVE-CHAIN SAFETY DEVICE	When the drive chain has been over-stretched or it is broken, the escalator will automatically stop the operation.
8.	BROKEN STEP CHAIN PROTECTION	When the step (pallet) chain has been over-stretched or broken, the escalator will automatically stop the operation.
9.	OVERLOAD PROTECTION	When there is over-speed to the escalator, it will automatically stop the operation.
10.	DIRECTION REVERSAL PROTECTION	When it comes the unintentional reversal of the direction of travel, the escalator will automatically stop the operation.
11.	SECURITY LINE	The yellow synthetic resin security line is located in the front position and two sides of the escalator tread so that the passengers will not tread in between the edge of the adjacent step and the lift group lengthened skirt panel. The security line on both sides of the step is higher than tread surface (The escalator offers the selective yellow spray-painted security line.)
12.	EMERGENCY BUTTON	When the button has been pressed down, the escalator will automatically stop the operation.
13.	SKIRT PANEL PROTECTION	When some foreign substance has been clipped in between the skirt panel and the step, the escalator will automatically stop the operation.
14.	BREAK PROTECTION	When the electric force falls short of supply or it acts any of the safety device, the brake function goes into effect by the safety device through the spring resilience action. In this way, the escalator stops the operation.
15.	SAFETY INSPECTION SWITCH	It is a safety device to prevent the escalator from starting during the inspection and maintenance.
16.	WARNING LIGHTS	Illumination exists in the upper and lower ends of the escalator in order to remind the passengers of the security matters.
17.	ALARM BELL STARTING DEVICE	The alarm bell rings when it starts the escalator in order to remind the passenger of the security matters.
18.	CONTROL DEVICE FOR HANDRAIL BREAKAGE	When the handrail is damaged, the escalator will automatically stop the operation.
19.	STEP & PALLET MISSING PROTECTION	Normal mode: when detect the missing of step or pallet, escalator will stop working.
20.	HANDRAIL SPEED MONITOR	Normal mode: when the handrail deviation of more than -15% to the actual speed for more than 15 seconds, escalator will stop working.
21.	FLOOR PLATE OPEN PROTECTION	Normal mode: When the floor plate is open, the escalator will stop working.
22.	MOTOR BREAK LIFTING DETECTING	After starting the escalator, if there is non-lifting of the brake system, escalator will stop working.
23.	MOTOR HAND WINDING DEVICE PROTECTION	When the hand winding device is used in the motor, the escalator will stop working.
24.	STEP BREAK DISTANCE DETECT DEVICE	When the brake distance over 1.2 meter, the system will stop working.
25.	SKIRTING BRUSH	Should follow GB16899-2011 no. 5.5.3.4 rules.



STANDARD SEFETY DEVICE	DESCRIPTION
1. ERROR PHASE PROTECTION	If lack phase or error phase has been detected, the escalator will automatically stop the operation.
2. MOTOR OVER-LOAD PROTECTION	When the current exceeds 15% of the current rating the moving walk will automatically stop the operation.
3. ELECTRICAL APPLIANCE LOOP PROTECTION	It offers the automatic circuit disconnecting device to protect the circuit and main components of the moving walk.
4. HANDRAIL INLET PROTECTION	When some foreign substance has been clipped in the handrail inlet, the moving walk will automatically stop the operation.
5. COMB PLATE SAFETY DEVICE	When some foreign substance has been clipped in or between the combs, the moving walk will automatically stop the operation.
6. STEP SAGGING PROTECTION DEVICE	When there is abnormal step bending, the moving walk will stop the operation before the step entering into comb plate.
7. BROKEN DRIVE-CHAIN SAFETY DEVICE	When the drive chain has been over-stretched or it is broken, the moving walk will automatically stop the operation.
8. BROKEN STEP CHAIN PROTECTION	When the step (pallet) chain has been over-stretched or broken, the moving walk will automatically stop the operation.
9. OVERLOAD PROTECTION	When there is over-speed to the moving walk, it will automatically stop the operation.
10. DIRECTION REVERSAL PROTECTION	When it comes the unintentional reversal of the direction of travel, the moving walk will automatically stop the operation.

STANDARD SAFETY DEVICE		DESCRIPTION
11.	SECURITY LINE	The yellow synthetic resin security line is located in the front position and two sides of the moving walk tread so that the passengers will not tread in between the edge of the adjacent step and the lift group lengthened skirt panel. The security line on both sides of the step is higher than tread surface (The moving walk offers the selective yellow spray-painted security line.)
12.	EMERGENCY BUTTON	When the button has been pressed down, the moving walk will automatically stop the operation.
13.	SKIRT PANEL PROTECTION	When some foreign substance has been clipped in between the skirt panel and the step, the moving walk will automatically stop the operation.
14.	BREAK PROTECTION	When the electric force falls short of supply or it acts any of the safety device, the brake function goes into effect by the safety device through the spring resilience action. In this way, the moving walk stops the operation.
15.	SAFETY INSPECTION SWITCH	It is a safety device to prevent the moving walk from starting during the inspection and maintenance.
16.	WARNING LIGHTS	Illumination exists in the upper and lower ends of the moving walk in order to remind the passengers of the security matters.
17.	ALARM BELL STARTING DEVICE	The alarm bell rings when it starts the moving walk in order to remind the passenger of the security matters.
18.	CONTROL DEVICE FOR HANDRAIL BREAKAGE	When the handrail is damage, the moving walk will automatically stop the operation.
19.	STEP & PALLET MISSING PROTECTION	Normal mode: when detect the missing of step or pallet, moving walk will stop working.
20.	HANDRAIL SPEED MONITOR	Normal mode: when the handrail deviation of more than -15% to the actual speed for more than 15 seconds, moving walk will stop working.
21.	FLOOR PLATE OPEN PROTECTION	Normal mode: When the floor plate is open, the moving walk will stop working.
22.	MOTOR BREAK LIFTING DETECTING	After starting the escalator, if there is non-lifting of the brake system, moving walk will stop working.
23.	MOTOR HAND WINDING DEVICE PROTECTION	When the hand winding device is used in the motor, the moving walk will stop working.
24.	STEP BREAK DISTANCE DETECT DEVICE	When the brake distance over 1.2 meter, the system will stop working.
25.	SKIRTING BRUSH	Should follow GB 16899-2011 no. 5.5.3.4 rules.
26.	ADDITIONAL BRAKE	It prevents moving walk to slide and ensure passenger security in case of the drive chain breakage or the sudden damage of the brake. (It should be allocated with the emergency brake H>6m.)
27.	COMB ILLUMINATION	The illumination has been installed in the skirt panel near the comb plate. It offers the lighting for the step and the plate, it is more convenient for the passengers to ride the moving walk.
28.	CONVERSION FUNCTION	It can adopt variable frequency control or the automatic starting mode to fulfill the energy-saving.
29.	HEATING DEVICE	Each moving walk usually installs three heating devices. One is the beside the host in the upper machine room, It mainly heats the host 2nd, is installed in the mid moving walk, and 3rd is in the lower part. It mainly heats the entire moving walk.
30.	FIRE LINKAGE	When this device comes into action, it can stop the moving walk. It is installed near the moving walk.
31.	LOWER MACHINE ROOM DRAIN	When it exceeds the standard water level in the lower machine room, the automatic drain will start accordingly (OUTDOOR TYPE)





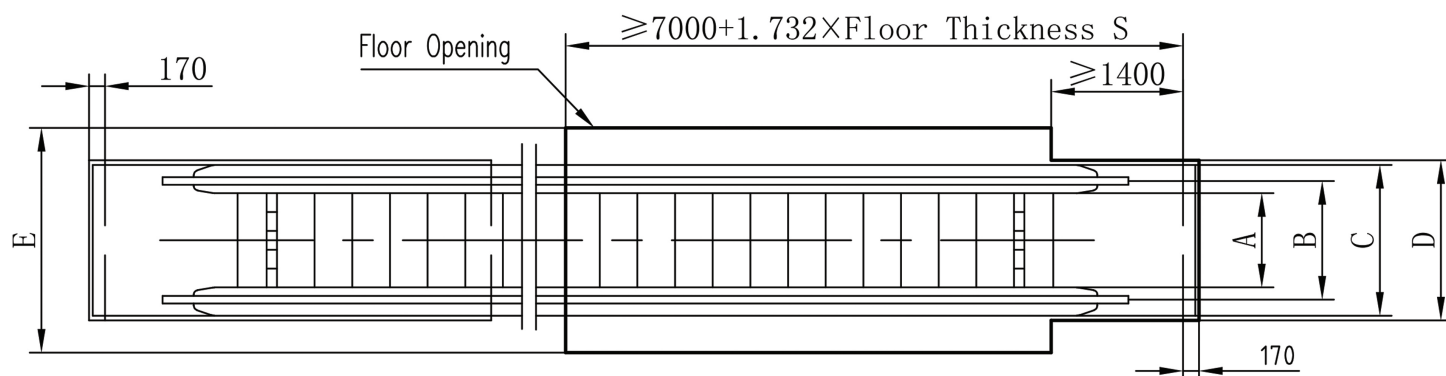
MODEL NO.	A	B	C	D	E
AEH 30-800	800	1037	1400	1460	2037
AEH30-1000	1000	1237	1600	1660	2237

MODEL	AEH30-800 (6750p/hour)				
Rising Height (mm)	N.W. (KN)	R1 (KN)	R2 (KN)	RM (KN)	Motor (Kw)
8500	104	93	79	120	2*8
9000	107	95	81	124	2*8
9500	109	97	83	128	2*8
10000	112	99	85	131	2*8
10500	114	101	87	135	2*8
11000	117	103	89	139	2*8

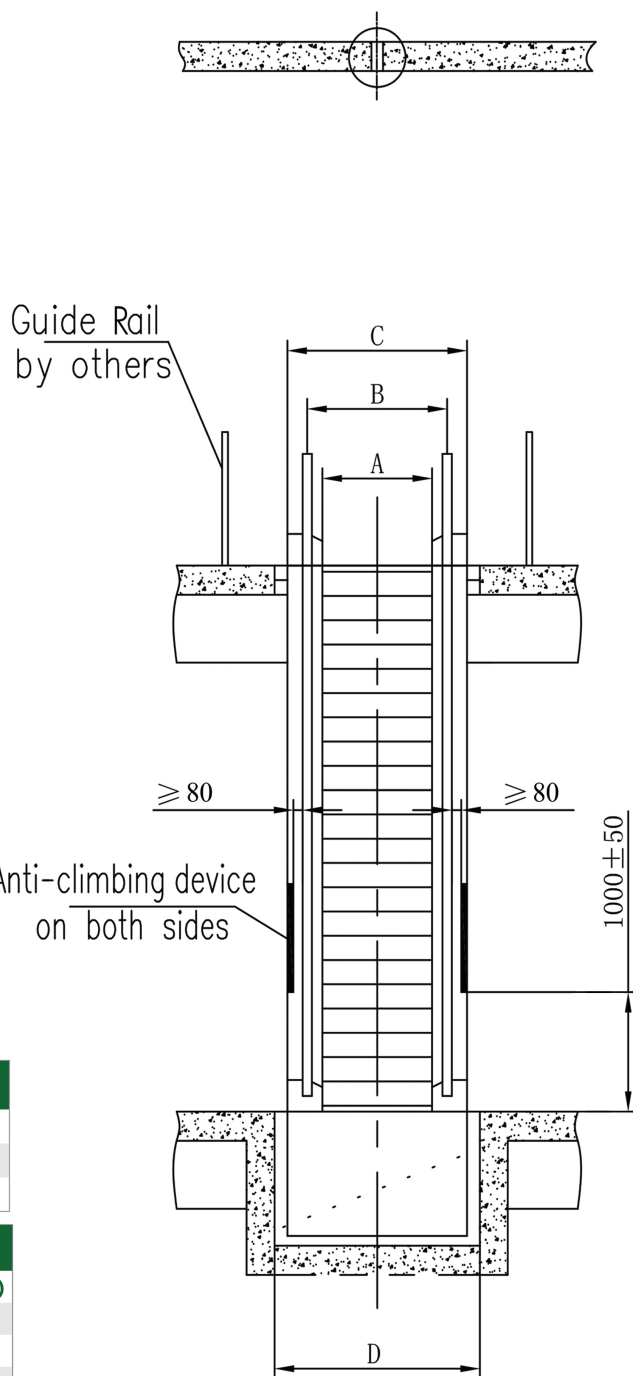
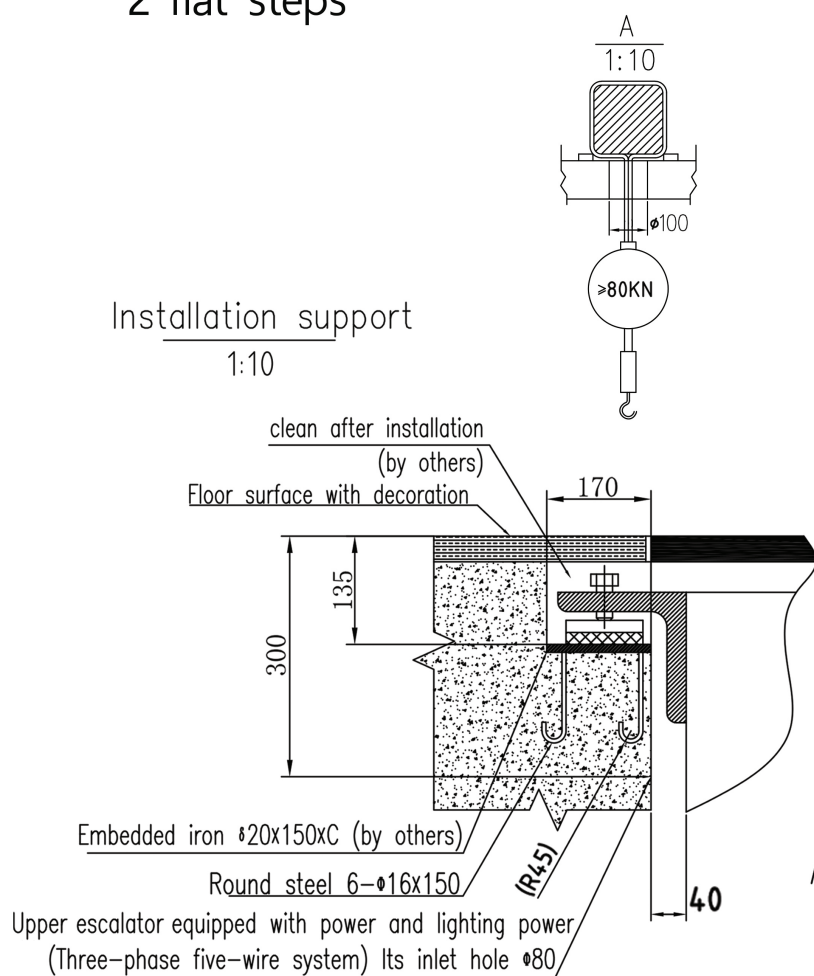
AEH30-1000 (9000p/hour)				
N.W. (KN)	R1 (KN)	R2 (KN)	RM (KN)	Motor (Kw)
108	98	84	134	2*8
111	101	86	139	2*8
114	103	88	143	2*11
117	105	91	148	2*11
120	107	93	152	2*11
123	109	95	157	2*11

Technical drawing of a staircase showing dimensions and labels:

- Overall length: $L = L1 + 4765$
- Segment lengths: 2198, $L1 = H \times 1.732$, 2567
- Handrail center to obstacle distance is less than 500mm. ceiling protection (by others)
- Handrail height: $\geq 7000 + 1.732 \times \text{Floor Thickness } S$
- Handrail thickness: S
- Min=300
- Min=2300
- 200
- 400
- 868
- 891
- ≥ 1000
- 30°
- 1000±50
- Anti-climbing device on both sides
- 1000
- 1010
- 1010
- 1010
- 1100
- ≥ 4300
- PIT concrete thickness must be 150mm must be waterproof (by others)
- Power supply
- R1
- R2
- H



2 flat steps



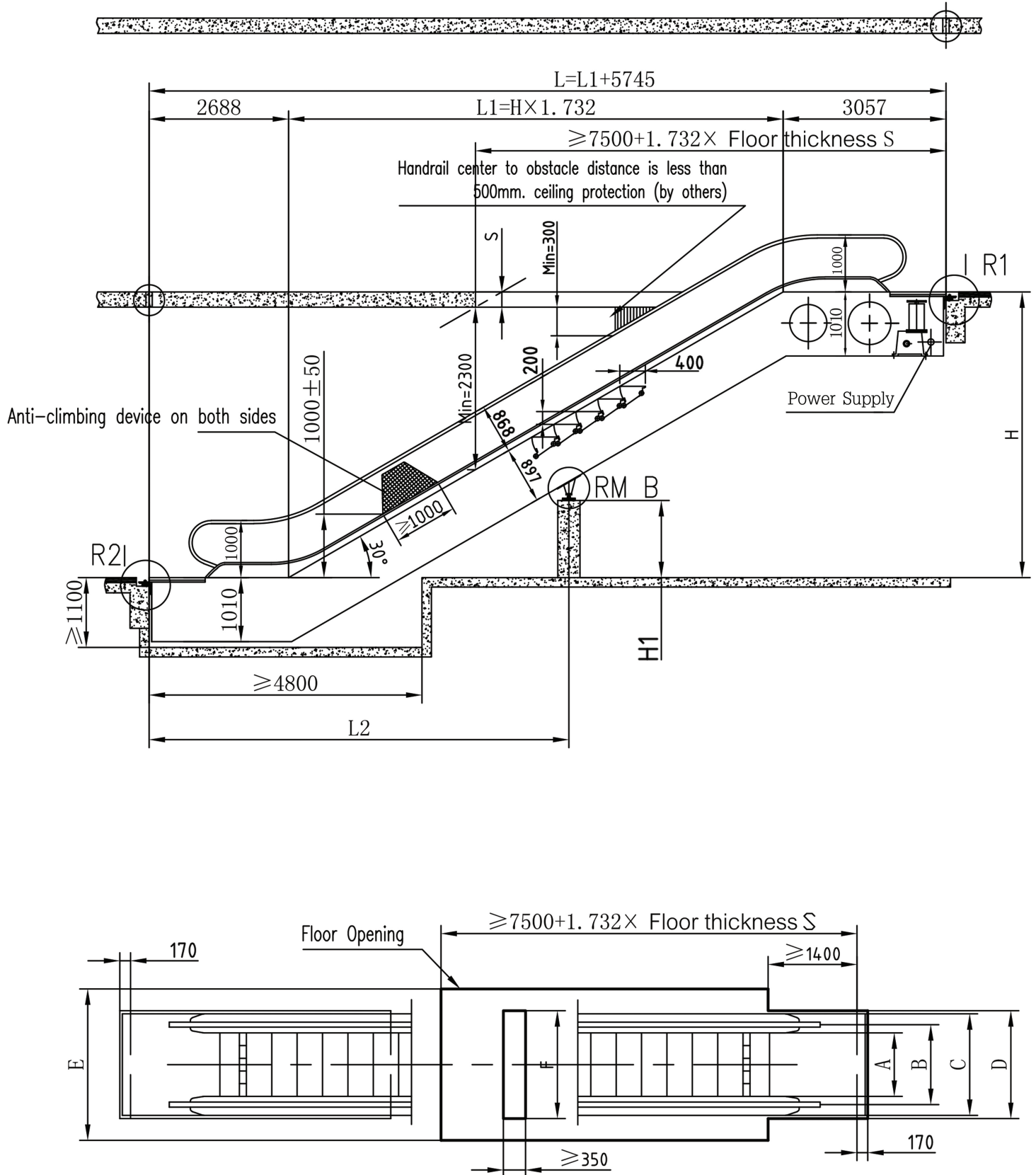
MODEL NO.	A	B	C	D	E
AES302-600	600	837	1140	1200	1837
AES302-800	800	1037	1340	1400	2037
AES302-1000	1000	1237	1540	1600	2237

MODEL	AES302-600(4500p/hour)			
Rising Height (mm)	N.W. (KN)	R1 (KN)	R2 (KN)	Motor (Kw)
3000	57	46	41	5.5
3560	60	49	44	5.5
4000	64	52	47	5.5
4500	68	56	50	5.5
5000	71	59	53	5.5
5500	75	62	56	5.5
6000	79	65	59	7.5

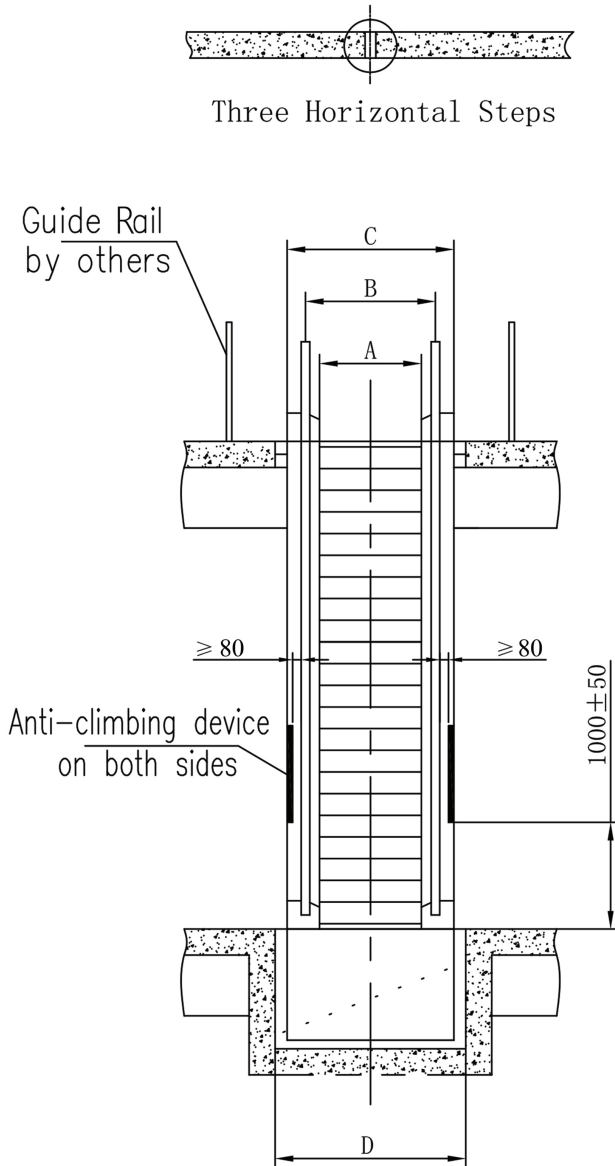
MODEL	AES302-800(6750p/hour)			
Rising Height (mm)	N.W. (KN)	R1 (KN)	R2 (KN)	Motor (Kw)
3000	59	52	47	5.5
3560	63	56	50	5.5
4000	67	60	54	5.5
4500	71	64	57	7.5
5000	74	68	60	7.5
5500	82	74	66	7.5
6000	86	78	69	8

AES302-1000(9000p/hour)			
N.W. (KN)	R1 (KN)	R2 (KN)	Motor (Kw)
60	56	50	5.5
64	60	53	7.5
67	64	57	7.5
71	67	60	7.5
74	71	64	8
82	77	69	11
85	81	72	11

3 flat steps

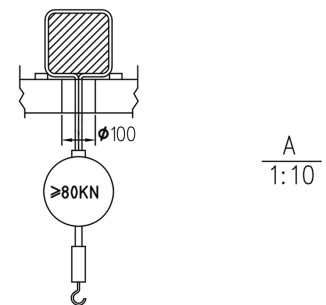
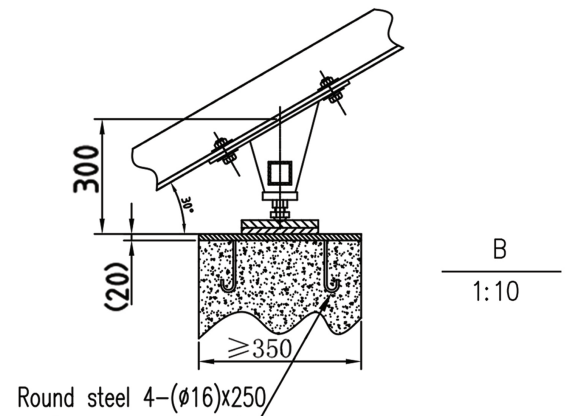
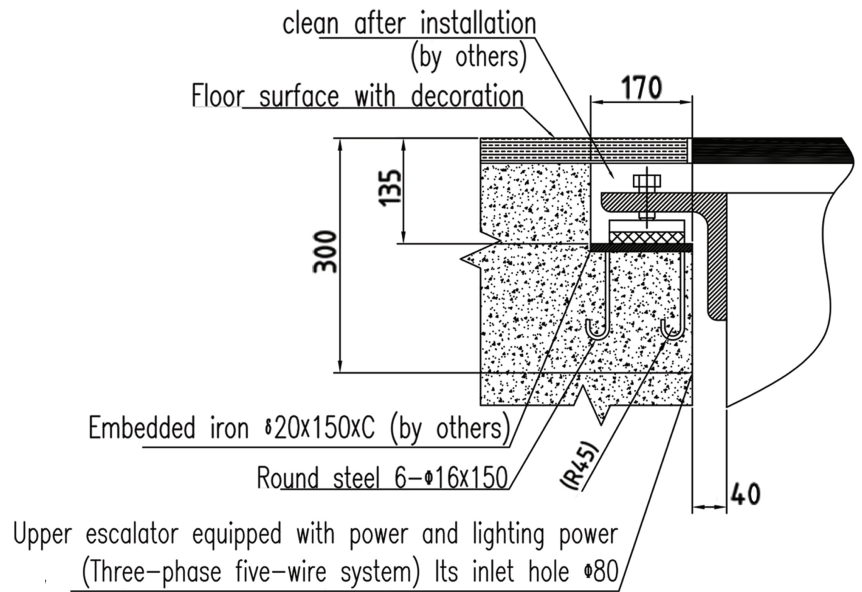


3 flat steps



Installation support details

1:10

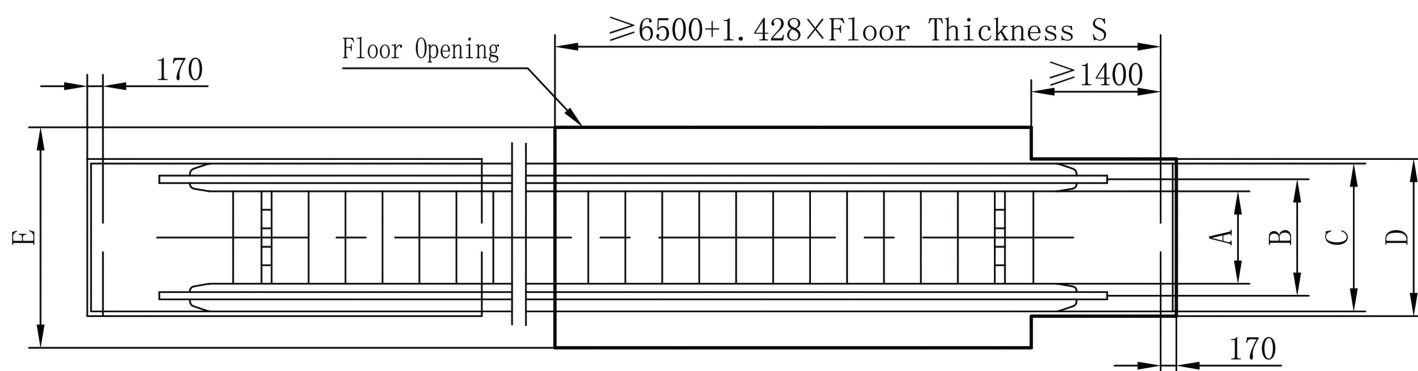


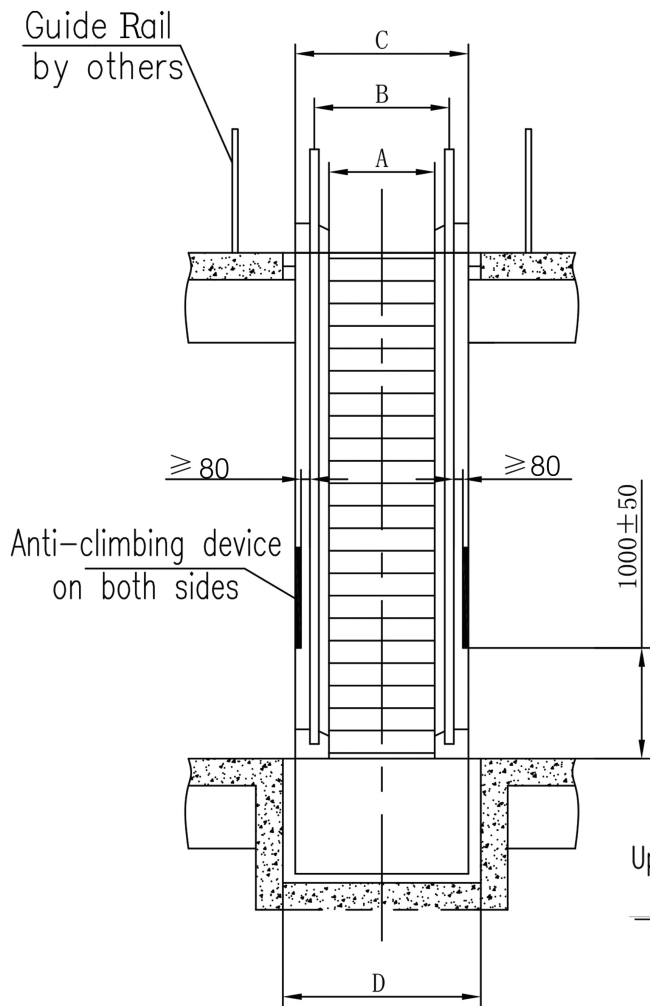
MODEL NO.	A	B	C	D	E
AES303-600	600	837	1140	1200	1837
AES303-800	800	1037	1340	1400	2037
AES303-1000	1000	1237	1540	1600	2237

MODEL AES303-600 (4500p/hour)					
Rising H (mm)	N.W. (KN)	R1 (KN)	R2 (KN)	RM (KN)	Motor (Kw)
6500	83	75	59	96	8
7000	86	82	64	103	8
7500	89	85	69	108	11
7900	93	89	75	113	11

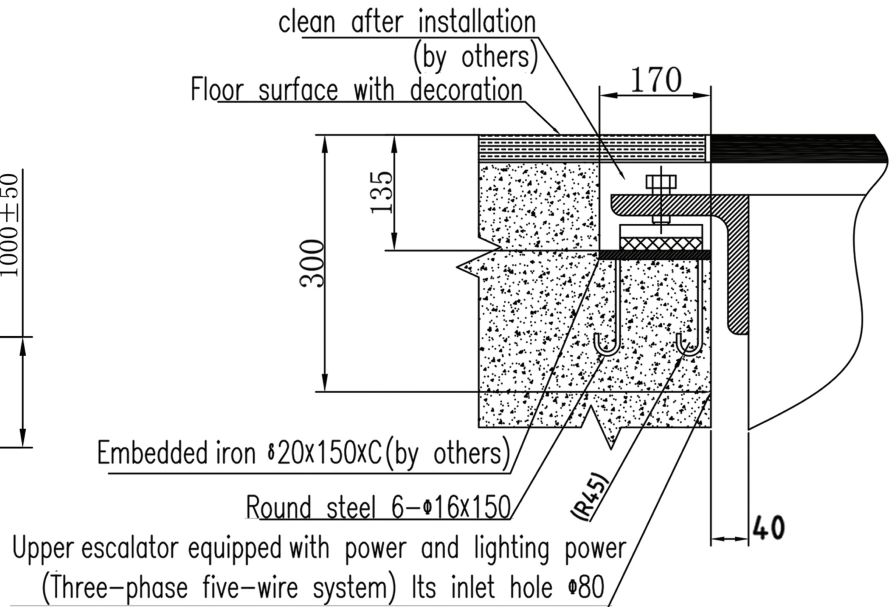
MODEL AES303-800 (6750p/hour)					
Rising H (mm)	N.W. (KN)	R1 (KN)	R2 (KN)	RM (KN)	Motor (Kw)
6500	88	84	76	105	11
7000	92	87	80	110	11
7500	95	91	79	115	11
7900	98	95	83	122	11

MODEL AES303-1000 (9000p/hour)				
N.W. (KN)	R1 (KN)	R2 (KN)	RM (KN)	Motor (Kw)
91	88	76	109	11
95	91	79	115	13
98	94	83	120	13
103	98	86	125	13





Installation support
1:10

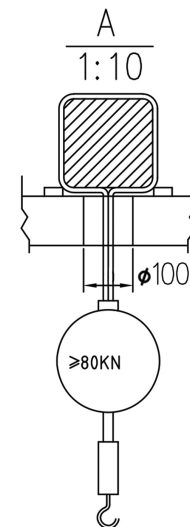


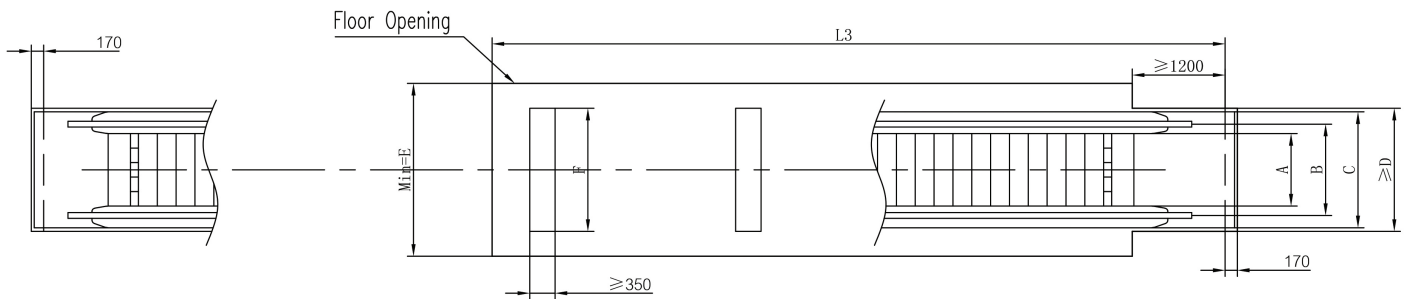
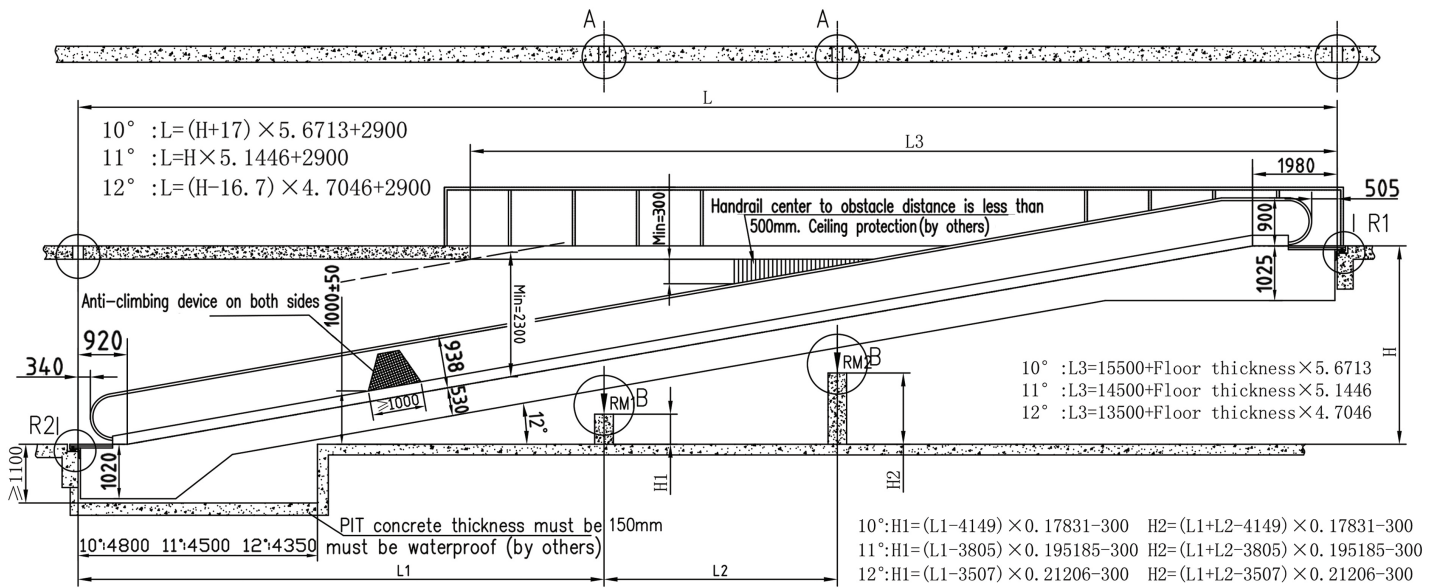
MODEL NO.	A	B	C	D	E
AES352-600	600	837	1140	1200	1837
AES352-800	800	1037	1340	1400	2037
AES352-1000	1000	1237	1540	1600	2237

MODEL	AES352-600 (4500p/hour)			
Rising Height (mm)	N.W. (KN)	R1 (KN)	R2 (KN)	Motor (Kw)
3000	54	43	39	5.5
3560	57	43	41	5.5
4000	60	49	44	5.5
4500	64	52	46	5.5
5000	67	54	49	5.5
5500	70	57	51	5.5
6000	73	60	54	7.5

MODEL	AES352-800 (6750p/hour)			
Rising Height (mm)	N.W. (KN)	R1 (KN)	R2 (KN)	Motor (Kw)
3000	56	49	44	5.5
3560	60	52	47	5.5
4000	63	56	50	5.5
4500	66	59	55	7.5
5000	70	62	56	7.5
5500	73	65	59	7.5
6000	76	69	61	8

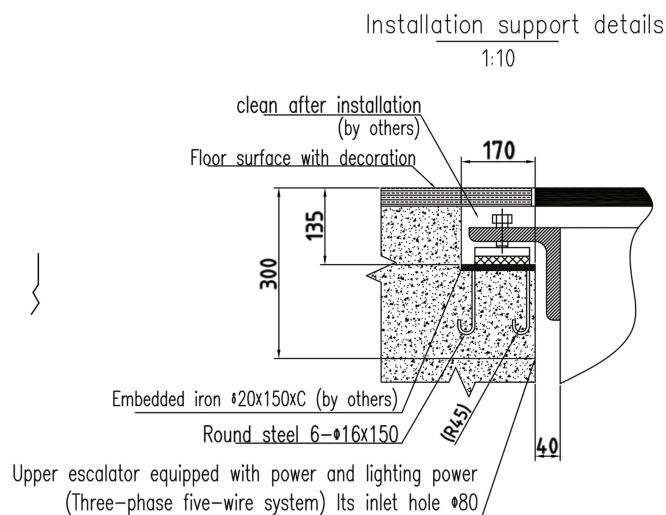
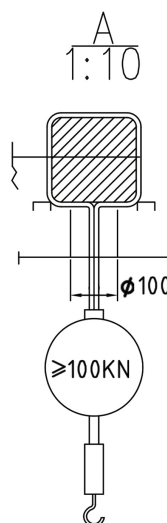
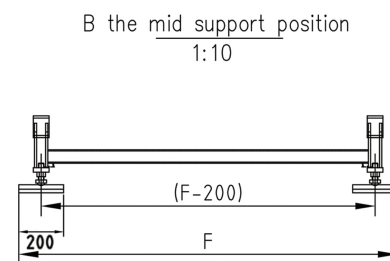
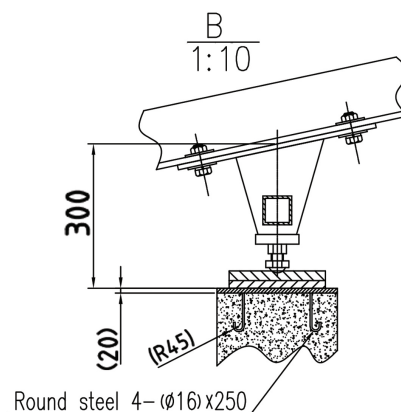
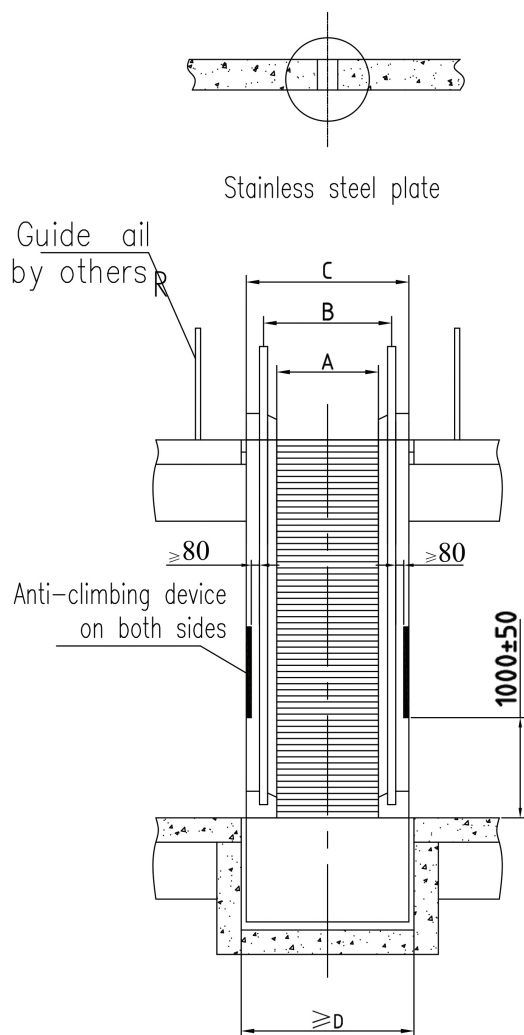
AES352-1000 (9000p/hour)			
N.W. (KN)	R1 (KN)	R2 (KN)	Motor (Kw)
60	56	50	5.5
64	60	53	7.5
67	64	57	7.5
71	67	60	7.5
74	71	64	8
82	77	69	11
85	81	72	11





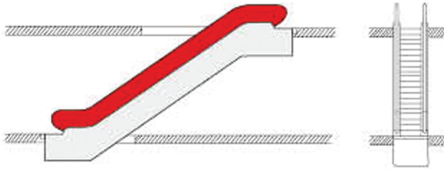
MODEL NO.	A	B	C	D	E
AET 10° 11° - 800 12°	800	1037	1400	1460	2037
AET 10° 11° - 1000 12°	1000	1237	1600	1660	2237

AET10°		A=1000						A=800					
H (mm)	L (mm)	N.W. (KN)	R1 (KN)	R2 (KN)	RM1(KN)	RM2(KN)	P(KW)	N.W. (KN)	R1 (KN)	R2 (KN)	RM1(KN)	RM2(KN)	P(KW)
2500	17175	90	51	43	85		7.5	87	45	37	74		7.5
3000	20010	100	57	49	96		8	97	51	43	85		8
3500	22846	111	65	56	108		11	107	58	49	96		11
4000	25682	121	70	62	120		11	117	62	55	106		11
4500	28517	132	77	68	131		13	127	68	60	115		11
5000	31353	142	59	50	96	97	13	137	49	40	78	79	13
5500	34189	153	66	57	108	109	15	147	55	46	98	99	13
6000	37024	163	72	63	130	131	15	157	61	52	110	111	15



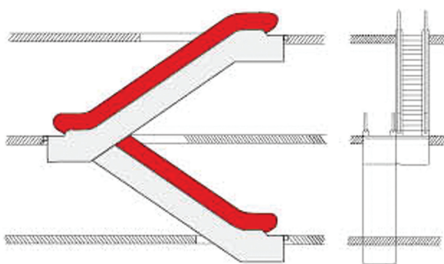
AET11°		A = 1000						A = 800					
H (mm)	L (mm)	N.W. (KN)	R1 (KN)	R2 (KN)	RM1(KN)	RM2(KN)	P(KW)	N.W. (KN)	R1 (KN)	R2 (KN)	RM1(KN)	RM2(KN)	P(KW)
2500	15762	85	49	41	78		7.5	82	43	35	67		7.5
3000	18334	94	55	47	89		7.5	91	49	41	78		7.5
3500	20906	104	61	53	99		8	100	54	46	87		8
4000	23478	114	68	59	112		11	110	60	52	98		8
4500	26051	123	73	65	124		11	119	65	57	107		11
5000	28623	133	80	71	135		13	128	70	61	117		11
5500	31195	142	86	77	146	98	13	137	76	67	128	80	13
6000	33768	152	92	83	157	109	15	146	82	73	139	86	13

AET12°		A = 1000						A = 800					
H (mm)	L (mm)	N.W. (KN)	R1 (KN)	R2 (KN)	RM1(KN)	RM2(KN)	P(KW)	N.W. (KN)	R1 (KN)	R2 (KN)	RM1(KN)	RM2(KN)	P(KW)
2500	14583	80	46	38	72		5.5	78	41	33	63		5.5
3000	16935	89	52	44	83		7.5	86	46	38	72		5.5
3500	19288	98	58	50	93		7.5	95	51	43	81		7.5
4000	21640	107	64	55	104		8	103	56	48	90		7.5
4500	23992	115	69	61	115		11	111	61	53	99		8
5000	26344	124	75	66	125		11	120	66	57	109		11
5500	28697	133	81	72	136		13	128	71	62	118		11
6000	31049	142	87	78	147	99	13	136	77	68	128	86	13



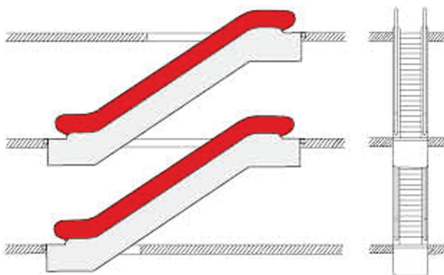
Single unit arrangement

Particularly suitable for transporting passengers between two floor levels, where passenger flow is in one direction, although on-demand starting can be utilized to allow travel in both two directions, (e.g, up in the morning and down in the evening)



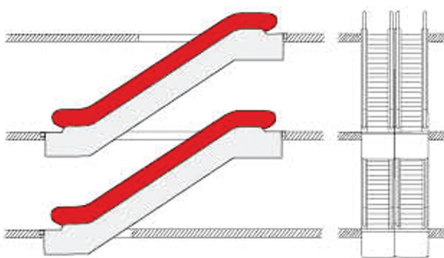
Continuous arrangement (one travel direction)

Mainly suitable for small department stores, between three sales floor levels, More space required than the interrupted arrangement.



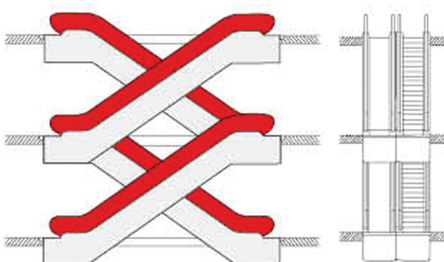
Interrupted arrangement (one travel direction)

Passengers have to make a short detour to the next escalator, strategically placed displays alongside the route of this detour can help to increase sales by encouraging impulse buying.



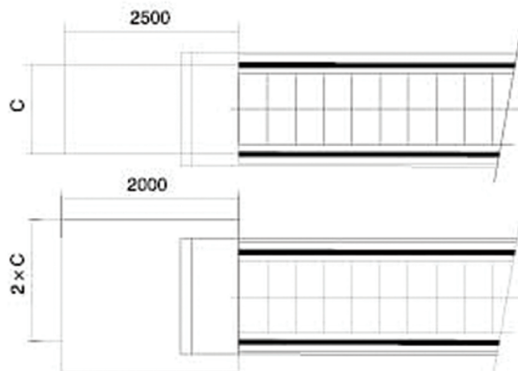
Multi-level parallel arrangement (Interrupted traffic, two travel directions)

Mainly used in department stores and public buildings with a heavy traffic flow, When there are three or more escalators, the possibility to reverse the direction of travel of both escalators depending on the usage or traffic flow, this arrangement is economical, since no decorative truss cladding required.



Multi-level criss-cross arrangement (continuous traffic flow, two travel directions)

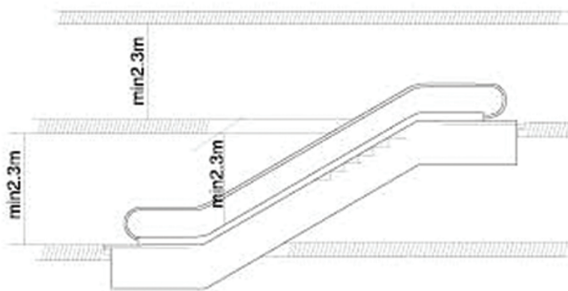
Mainly used in major department stores, public buildings and public transport buildings, reduce congestion at the landing area by separating upwards and downwards travelling passengers.



Besides complying with the drawing of the contract, attention should also be drawn to the following.

To ensure the safety of the escalator and moving walk, free space should be large enough in the landing area. (See the minimum size on right)

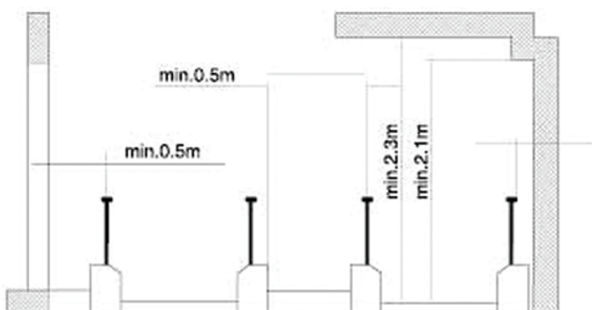
C = handrail belt width



Vertical safety distance

There should be at least 2.3 m. upside safety distance starting upward from the step board.

Notice : If the vertical rise of one escalator, which is installed above another one, is less than 3.3 m. the upside safety distance can not reach 2.3 m.



Escalators and moving walk horizontal safety distance

The horizontal distance between the handrail edge and the wall or other objects should be more than 80 mm.

The vertical distance above the step board should be more than 2.3 m.

The vertical distance above the handrail space should be more than 2.1 m.

In case of floor spaces or the cross layout of escalators and moving walk, the safety distance between the handrail center and the object should be more than 0.5 m.

If the above-mentioned requirements cannot be met, a special protection device and a bumper rail should be used.