

**COMMERCIAL
ESCALATORS
COMMERCIAL
MOVING WALKWAYS**



SILVER ELEVATOR KOREA

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BRIEF INTRODUCTION ABOUT THE COMPANY

SILVER Elevator Korea Co., Ltd. We are introducing the best technology in escalator manufacturing industry. We keep innovating and improving, we exert ourselves to make progress and provide reliable multiple products and services.

SILVER stresses on keeping introducing and developing which based on market orientation and quality and services and driven by innovation. Our plant occupied a floor of 33500 square meters including a 20000 square meters workshop and a 100 meters testing tower, we have many experts in researching and administration. We insist on customer-oriented principles and improving sales, installation, services system. We use advanced manufacture and equipments and professional support to make sure of high quality of products.

SILVER faces to international and domestic market, strives to realize enterprise management and connection with international market, develops towards green and environmental friendly elevator with energy conservation, low pollution, low noise, and long service life, we provide elevator products with superior quality for global users.

PERFECT BLEND OF HUMAN TECHNOLOGY AND INNOVATIVE DESIGN

SILVER escalators possess the understanding of lifts for humans' enjoying pursuit, combine the unique human technology and ingenious innovative design and bring each customer with the quick, convenient, joyful and comfortable enjoyment.

Run efficiently, create with precision work and wisdom and let the city operation in order

High-precision traction machine: provide escalators for a strong delivery power.

Variable frequency drive control: remarkable energy-saving effect, increase the service life of the equipment and reduce the operation cost.

Step road guide rail design: fixed the steps on the step guiderail, control steps' running direction and improve operating efficiency.

Super load and resistant to corrosion: use firm parts to flexibly satisfy commercial delivery needs.



Efficient delivery



Safety smart



Safety protection



Everything available

Well considered in every aspect, especially in safety protection, everything is perfect

Unique brake device: realize the free adjustment of brake torque during the running up and down and ensure the steady and safety.

Running direction displayer: massive dot matrix can display the running direction to increase security.

Fault display: when the fault occurs, the fault code will be displayed on the fault screen, which is good for judging the fault position and improves the efficiency of maintenance.

Skirt panel lighting device: it keeps the beams of light elegant and highlights the visibility of escalator in the whole building to make customer more comfortable and safe.

REALIZE THE GREEN OPERATION WITH SAFETY, ENERGY-SAVING AND COMFORT



SILVER moving walkways are designed with novel, fashionable and creative streamline appearance and appear in every corner of the city with the elegant posture. The super passenger capacity, advanced manufacturing technology and comfortable ride experience can achieve the operation with the safety, energy-saving and environmental protection and improve the reasonable and orderly development of construction of urban space.

The excellent system can achieve the delivery of a large number of passengers and cargos

Microcomputer control panel: quick operation speed, powerful internal function and high stability.

High precision displacement detection technology: it can achieve the leveling accuracy with nearly zero-to-zero and makes passengers in and out as easily as on smooth ground.

Advanced handrail drive: accurately combining the friction wheel drive with V-belt drive, this design not only improves the driving force, but also prevents handrail from surface damage.

The anti-skid slot on the surface of small pedals: let customers experience the safety and comfort.

The perfect configuration can greatly improve the operational efficiency

The big radius and equal arc rotation handrail guide: the use of handrail chain can effectively reduce the friction and prolong the service life of handrail.

Ultra-quiet traction machine: it can effectively prevent the vibration. The landing plate possess the design of special mule shock-absorbing and the tensioner can effectively prevent the noise better.

PLC automatic oil lubricating control system: fulfill the ideal automatic lubricating for transmission chains in the process of moving walkways running and prolong the service life of transmission mechanism.



COMMERCIAL ESCALATORS

The unique masterpiece will bring the ride into the simple and comfortable state

Adhering to the principle of "humanity-oriented production and manufacturing", SILVER Commercial Escalators always take full account of escalator safety, aesthetics, performance, and various requirements of customers, bring customers with steady and safe experiences, enable customers to enjoy the comfort and relaxation, and add luster to the magnificent business environment.

COMMERCIAL MOVING WALKWAYS

As easily as on smooth ground, convenient transportation Provide crowded places with the comfortable and smooth passenger flow service

SILVER commercial moving walkways adopt a number of world advanced energy-saving technology, which are designed with the modern innovation and produced in strict conformance with the safety standards to solve the frequent passenger flow in public places such as shopping malls, shopping centers and airports. The commercial moving walkways are developed for long distance delivery of people and goods to bring people with convenient trips as well as rapid and joyful feelings.



SAFETY DEVICE

Standard safety device

1 Lack of phase, error phase protection	8 Broken step chain protection
2 Motor over-load protection	9 Over-speed protection
3 Electrical appliance loop protection	10 Direction reversal protection
4 Handrail entrance protection	11 Security line
5 Comb plate safety device	12 Emergency stop button
6 Step sagging protection device	13 Skirt panel protection
7 Broken drive-chain safety device	14 Brake protection

Standard safety device

15 Safety inspection switch	19 Skirt panel brush
16 Step illumination	20 Braking distance inspection
17 Landing plate contact	21 Step missing detection
18 Handrail speed monitor	

Optional safety device

22 Alarm bell starting device	25 Auxiliary brake (it should be allocated with the emergency brake when 6m<k>)
23 Handrail broken protection	26 Oil-water separator(outdoor escalator)
24 Lower machine room water level detection (outdoor escalator)	





PERFECT FUNCTIONS

1. Operation direction indicator:

The operation direction and prohibition display identifiers are placed on the entrance of handrail to ensure passengers' safety and freshness through the obvious operation and prohibition identifiers.



1

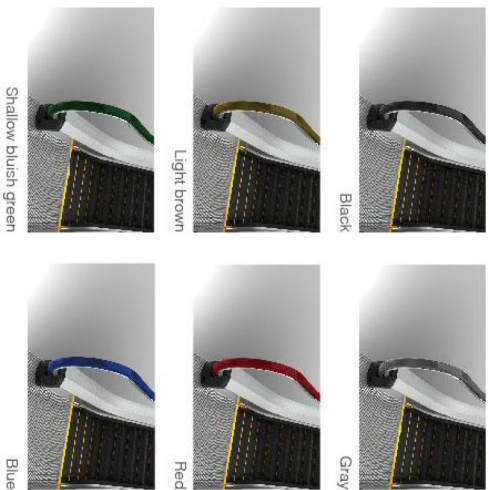
2. Entrance of handrail:

The unique and fashionable entrance and exit streamline design of handrail gives escalators more spirituality and affinity and careful observing for users. It fully shows the flexible, rounded and smooth sense of beauty and surrounding buildings' elegance and nobility.

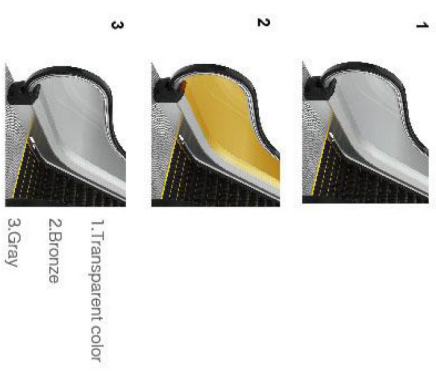


2

Handrail color



Baseboard color



3. Frequency auto restart: The sensor is located near the floor panel to detect the adjacent passengers. It starts automatically from fast to slow and stops automatically when all the passengers leave.

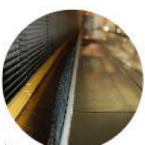


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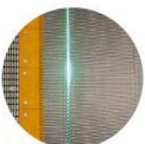


4

5. Skirt panel brush: It is installed on both sides of skirt panel, a little bit higher than step. Brush can prevent passengers' shoes from touching the skirt panel and keep the foreign matters from being taken into steps.



5



6

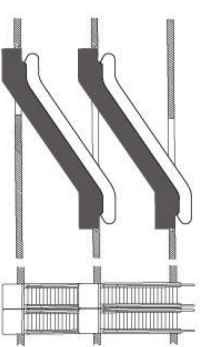
4. Internal step chains of roller: The roller is internally placed in the specially designed step chains of roller to effectively reduce the noise during the running of the drive and make the operation more steady and quiet.

6. Step alarm light: The green fluorescent lights are installed under the upper and lower step. When the joint steps are operated separately, the green fluorescent lights will appear from the gaps between steps to help passengers identify the flat step in and out to ensure the safety.

LAYOUT PLAN

Parallel, interrupted arrangement (two-way traffic)

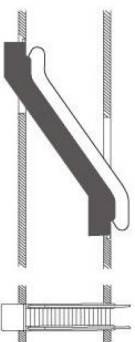
This arrangement is used mainly in department stores and public transport buildings with a heavy traffic volume. When there are three or more escalators, it should be possible to reverse the travelling direction according to the traffic flow. This arrangement is economical, since no inner lateral claddings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



Logical positioning systematic layout

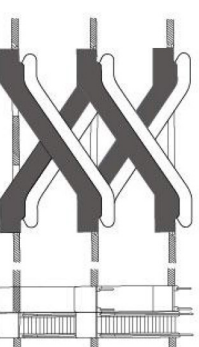
Single unit

The single unit is 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.



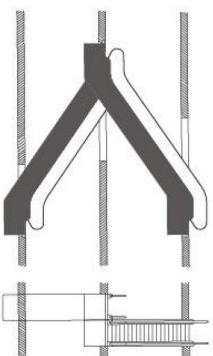
Crisscross, continuous arrangement (two-way traffic)

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.



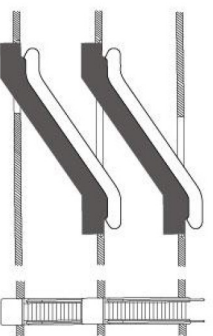
Continuous arrangement (one-way traffic)

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)

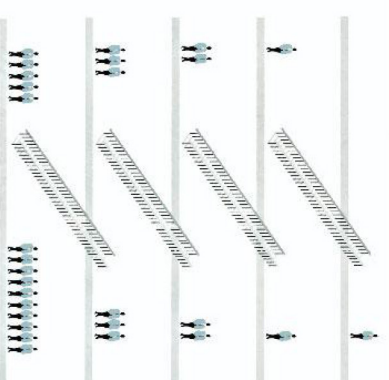
This arrangement is somewhat inconvenient for users, but advantageous for department store owners, since the short detour to the next unit and the spatial separation between up and down travel is ideal for leading customers past strategically placed advertising displays.



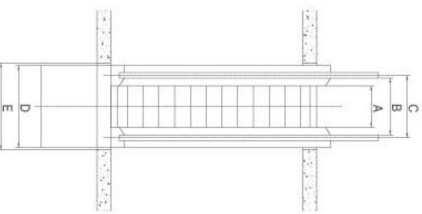
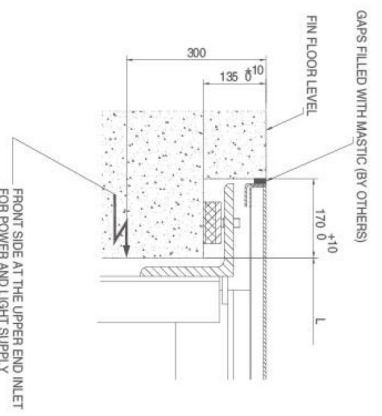
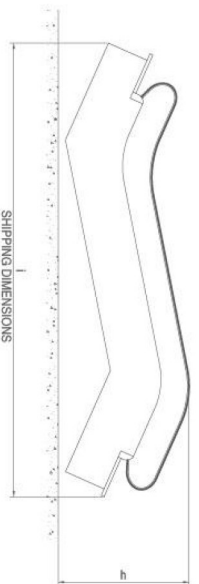
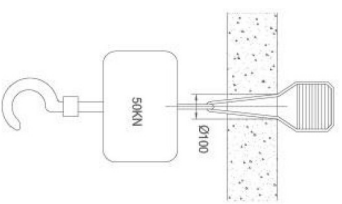
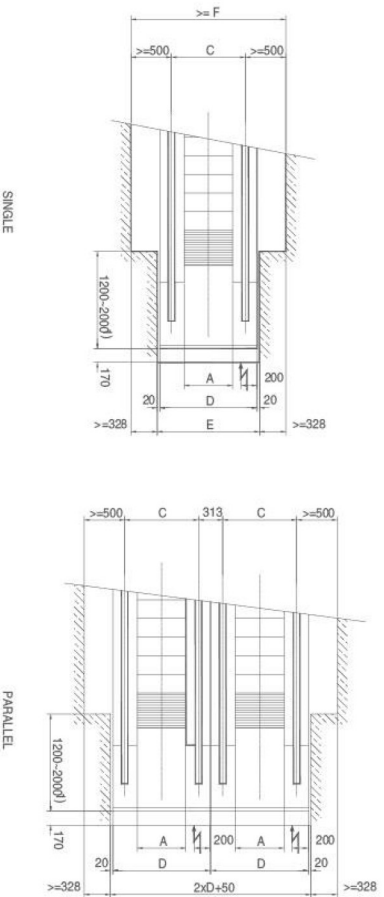
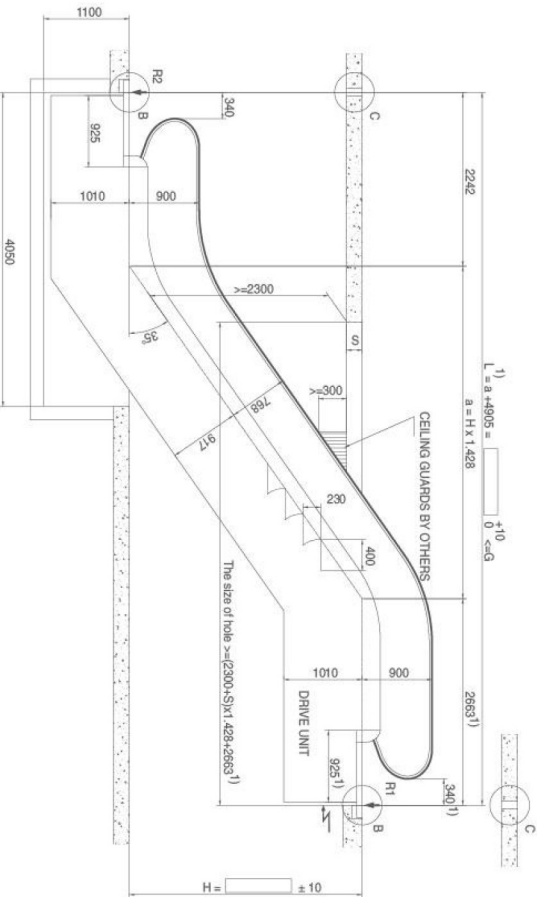
Escalators



Ordinary staircase



HS200-35K COMMERCIAL ESCALATOR CONSTRUCTION LAYOUT DRAWING

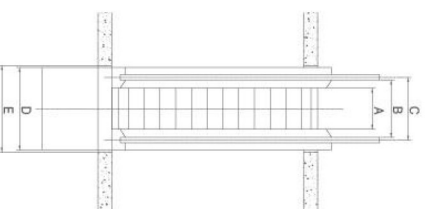
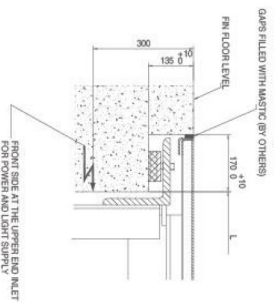
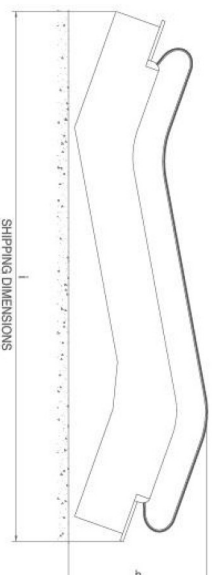
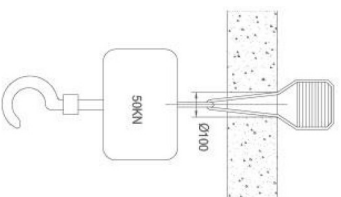
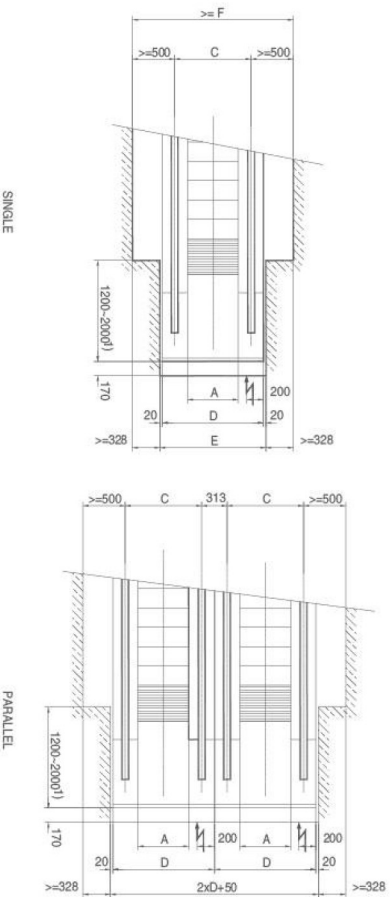
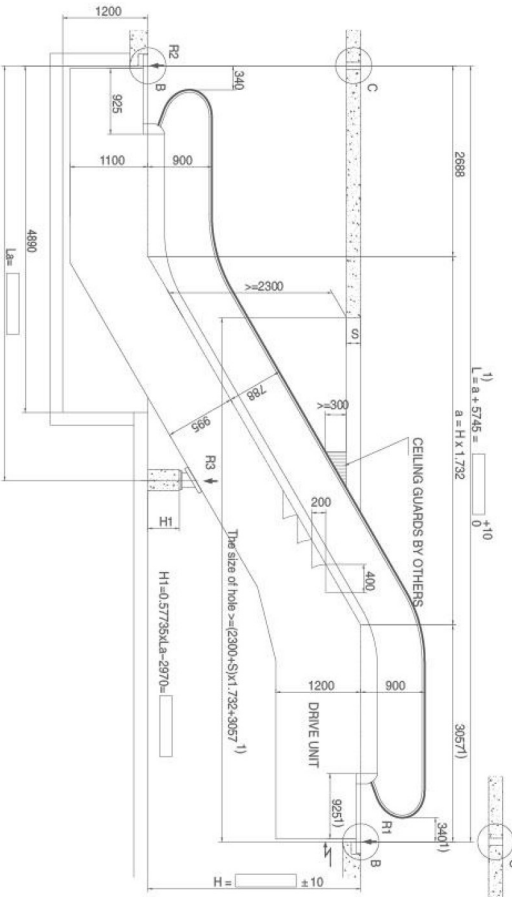


Type	Rise	Weight	Support Levels		Power kw	Transport size	
			R1	R2		H	I
35-60K 3240 man/hour	3000	53	46	42	5.5	2289	10493
	3500	56	48	44	5.5	2344	11344
35-80K 4800 man/hour	4000	59	51	47	5.5	2388	12197
	4500	62	54	50	5.5	2454	13053
35-100K 6000 man/hour	5000	64	57	52	5.5	2480	13911
	5500	67	60	55	5.5	2480	14770
35-80K 4800 man/hour	6000	70	63	58	5.5	2502	15631
	6500	73	66	61	5.5	2520	16317
35-100K 6000 man/hour	7000	76	69	64	5.5	2520	17186
	7500	79	72	67	5.5	2520	18055
35-100K 6000 man/hour	8000	82	75	70	5.5	2520	18924
	8500	85	78	73	5.5	2520	19793

	1000mm	800mm	600mm
A: Step width	1157	957	690
B: Width between handrails	1237	1037	837
C: Handrail center distance	1540	1340	1140
D: Width of escalator	1580	1380	1180
E: Width of shaft	2236	2036	1836
F: Minimum spacing	16000	17200	18900

- If L > G, an intermediate support is required, please consult.
- If step width is 600mm, upper truss shall increase 417mm.
- Detailed motor power parameters may check with our technical department.

HS200 MEDIUM HEIGHT COMMERCIAL ESCALATOR CONSTRUCTION LAYOUT DRAWING



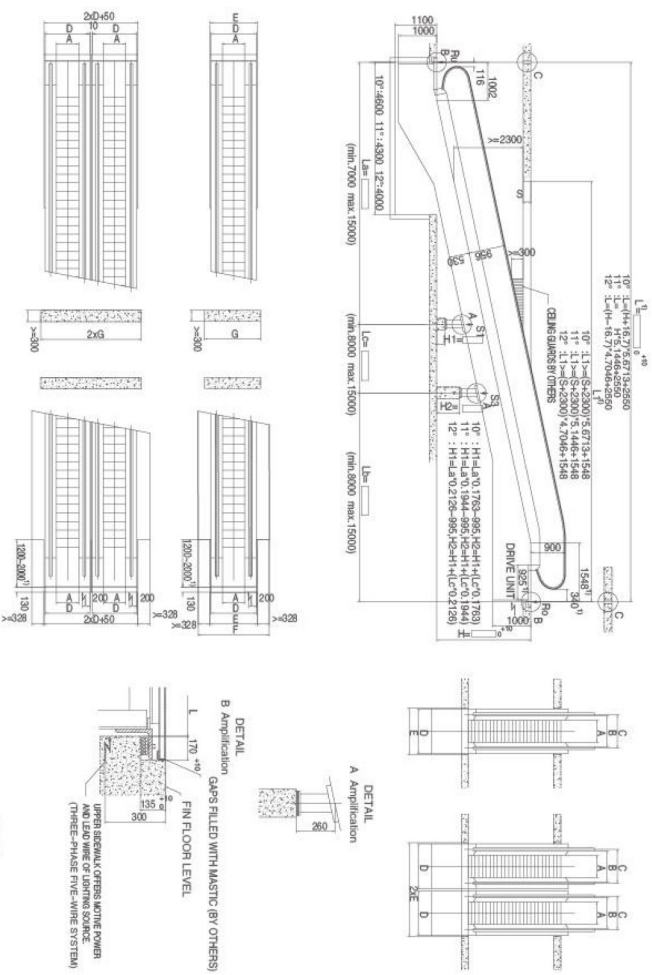
	1000mm	800mm	600mm
A: Step width	1000	800	600
B: Width between handrails	1197	997	797
C: Handrail center distance	1237	1037	837
D: Width of escalator	1540	1340	1140
E: Width of shaft	1580	1380	1180
F: Minimum spacing	2236	2036	1836
G: Maximum outreach	16000	17200	18800

- 1.If L>G, an intermediate support is required, please consult.
- 2.If step width is 600mm, upper truss shall increase 417mm.
- 3.Detailed motor power parameters may check with our technical department.

Type	Rise		Weight		Power/kw	Person/
	H	V	W	V=0.5m/s		
30-60M 3240 man/hour	6000	96	5500	96	8	11
	6500	100	7000	100		
	7500	103	8500	103		
	8500	110	9500	110		
	9500	113	9500	113		
30-80M 4800 man/hour	10000	120	10000	120	11	15
	11000	127	11000	127		
	12000	134	12000	134		
	13000	140	13000	140		
	14000	147	14000	147		
30-100M 6000 man/hour	12000	150	12000	150	15	2x11
	13000	157	13000	157		
	14000	164	14000	164		
	15000	171	15000	171		
	16000	178	16000	178		

mm size units, individual size may be revised

HS300-I MOVING WALKWAYS CONSTRUCTION LAYOUT DRAWING (10° -12°)

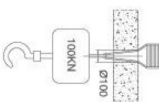


Tread	Rise		Mid-support		Support	
	From	To	S1	S2	La	Lb
10°	1273	2154	-	-	-	-
	2155	3388	1	-	L-7000	-
	3389	4799	1	-	L-15000	15000
	4800	6000	1	1	7000	15000
	1423	2394	-	-	-	L-22000
11°	2395	3754	1	-	7000	L-7000
	3755	5309	1	-	L-15000	15000
	5310	6000	1	1	7000	15000
	1572	2634	-	-	-	L-22000
	2635	4122	1	-	7000	L-7000
12°	4123	5822	1	-	L-15000	15000
	5823	6000	1	1	7000	L-22000

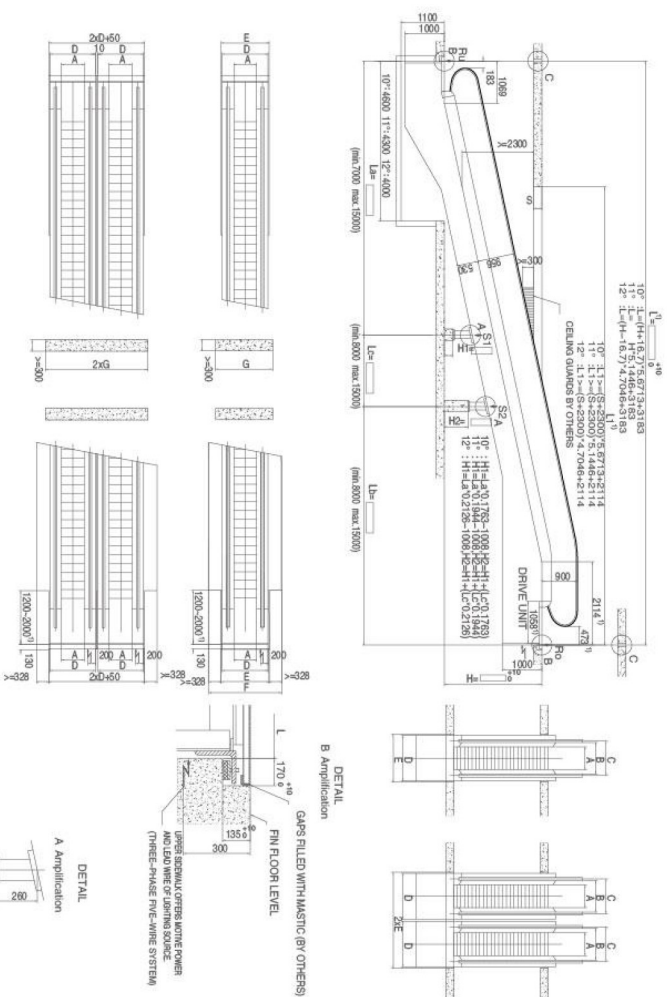
Supported by treads	q	M	N
YSS80	0.0039	9.5	4.5
YSS100	0.0045	11	5

YSS80	YSS100
A 800	1000
B 957	1157
C 1037	1237
D 1340	1540
E 1380	1580
F 2036	2236
G 1300	1500

1. Use the tread with 139mm pitch.
2. Upper truss shall increase 417mm for double-drive.
3. Detailed motor power parameters may check with our technical department.



HS300-II MOVING WALKWAYS CONSTRUCTION LAYOUT DRAWING (10° -12°)

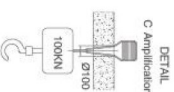


Tread	Rise		Mid-support		Support	
	From	To	S1	S2	La	Lb
10°	1273	2154	-	-	-	-
	2155	3388	1	-	7000	L-7000
	3389	4799	1	-	L-15000	15000
	4800	6000	1	1	7000	15000
	1423	2394	-	-	-	L-22000
11°	2395	3754	1	-	7000	L-7000
	3755	5309	1	-	L-15000	15000
	5310	6000	1	1	7000	15000
	1572	2634	-	-	-	L-22000
	2635	4122	1	-	7000	L-7000
12°	4123	5822	1	-	L-15000	15000
	5823	6000	1	1	7000	L-22000

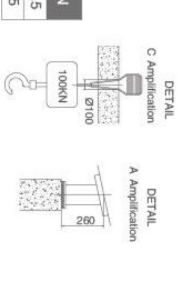
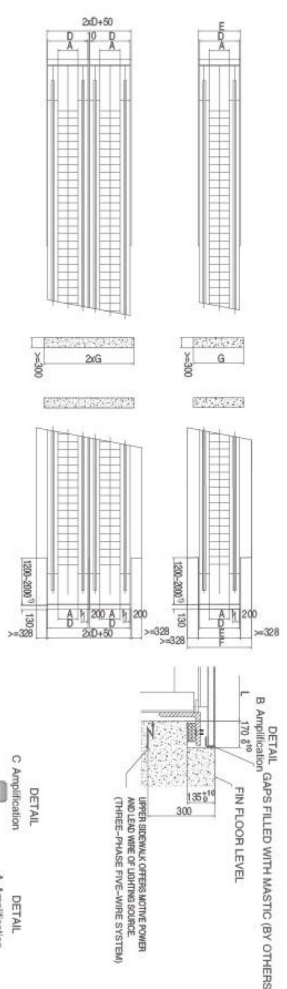
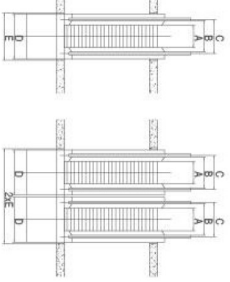
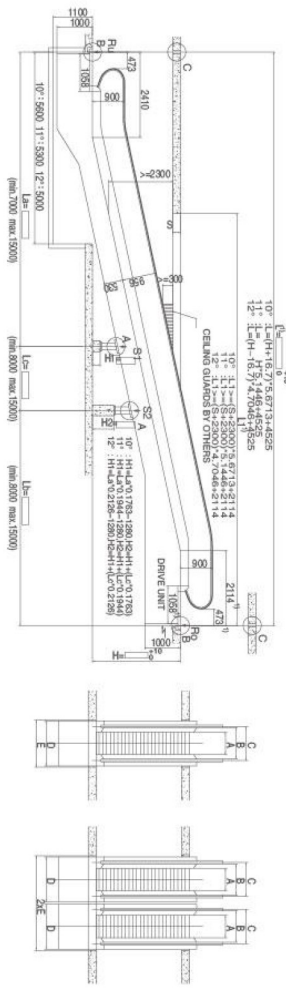
Supported by treads	q	M	N
YSS80	0.0039	9.5	4.5
YSS100	0.0045	11	5

YSS80	YSS100
A 800	1000
B 957	1157
C 1037	1237
D 1340	1540
E 1380	1580
F 2036	2236
G 1300	1500

1. Use the tread with 266mm pitch.
2. Upper truss shall increase 417mm for double-drive.
3. Detailed motor power parameters may check with our technical department.



HS300-III DOUBLE-ARC MOVING WALKWAYS CONSTRUCTION LAYOUT DRAWING (10° ~12°)



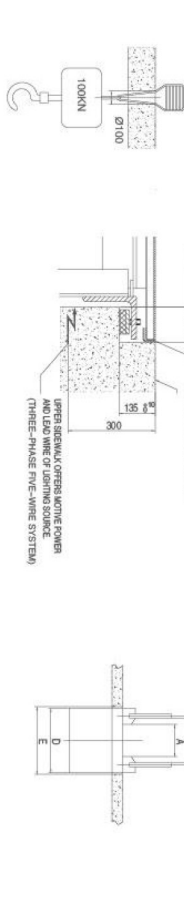
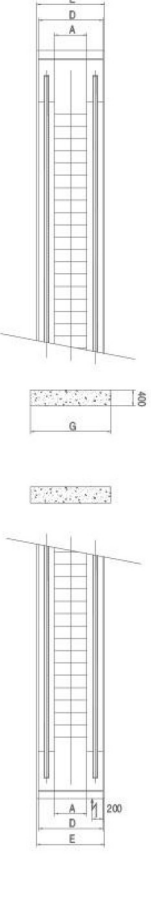
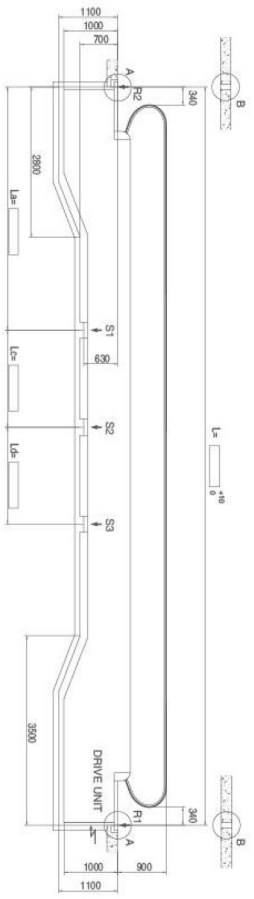
Temp	Rise		Mid-support		La	Lb	Lc
	From	To	S1	S2			
10°	1273	2154	-	-	7000	L-7000	-
	2155	3388	1	-	L-15000	15000	-
	3389	4799	1	1	7000	15000	L-22000
	4800	6000	1	1	7000	15000	L-22000
	1423	2394	-	-	-	-	-
11°	2395	3754	1	-	7000	L-7000	-
	3755	5309	1	-	L-15000	15000	-
	5310	6000	1	1	7000	15000	L-22000
	1572	2634	-	-	-	-	-
	2635	4122	1	-	7000	L-7000	-
12°	4123	5822	1	-	L-15000	15000	-
	5823	6000	1	1	7000	15000	L-22000

Supported by force	q	M	N
YSS80	0.0039	9.5	4.5
YSS100	0.0045	11	5

	YSS80	YSS100
A	800	1000
B	957	1157
C	1037	1237
D	1340	1540
E	1380	1580
F	2036	2236
G	1300	1500

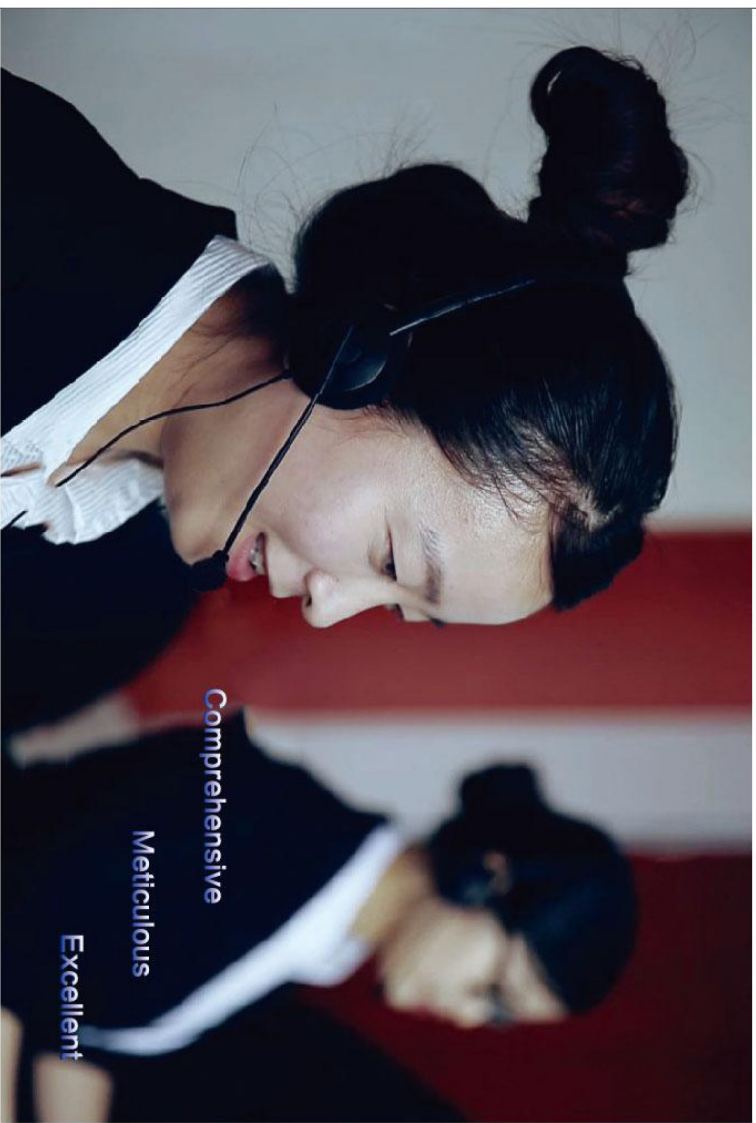
1.Upper truss shall increase 417mm for double-drive.
2.Detailed motor power parameters may check with our technical department.

HS300 MOVING WALKWAYS CONSTRUCTION LAYOUT DRAWING (0°)



	YSH80	YSH100
A	800	1000
B	957	1157
C	1037	1237
D	1340	1540
E	1380	1580
F	2036	2236
G	1300	1500

CUSTOMER ESTEEMED, SERVICE SUPREME



SILVER organizes professional after-sale service team, overall service team has profound experience to solve after-sale service problems and formulate solutions. The service engineers in Hanson should be taken professional, strict and standard train, and pass the examination before assignment.



- SILVER establishes the brand institutes in various major cities in Korea, it will furnish the local clients with the prompt service, including the spare supply and the responsive time.
- SILVER sets 24-hours customer hotline in order to urgently remove the trouble, it will always promptly furnish you with the best service.
- SILVER regularly assigns the staff to test your escalator's running conditions so that your escalator can get the most professional maintenance.

Attentive

The customers can be rest assured in buying our products.

Considerate

Intensive control, accurate grasp.

Trustworthy

We persist in executing and expanding the service networks.

