TECHNOLOGY LEADS THE MARKET
SERVICES CREATE VALUE

BRILLIANT ELEVATOR

- No.1 Chinese Brand
- Chinese Pride
- Trust by the world

Comparing to the renowned world-brand elevator, "Chinese brand" is becoming the step leader worldwide by providing deal service to globe prominent building structures. As China is continuously making science and technology model, we've been dedicating to make each intellectual traveling in the building more safe, comfortable and convenient.

After years of diligent effort, BLT, with its own proprietary intellectual property rights, has found more than 220 selling and service stations worldwide. Areas cover 6 wholly-owned and 1 jointed subsidiaries respectively in Germany, Australia, Singapore, Mongolia, Peru, and Morocco. In addition, we are expanding our universal sales and service network by advancing oversea manufactures setup schema and simultaneously providing professional, efficient, and convenient course to our widespread clients via a "Lifelong VIP Service" journey.

Stock Code: 002689

China Well-know Trademark

National Customer Satisfaction Enterprise

National Customer Satisfaction Service

THE INTRODUCTION OF

SHENYANG YUANDA GROUP

■Shenyang Yuanda Enterprise Group, constituted by Shenyang Yuanda Aluminum Industry Engineering Group, Shenyang Brilliant Elevator Group, and Shenyang Yuanda Mechanical & Electrical Equipment Group, is a large-scale international enterprise group specializing in curtain wall cladding systems, elevator manufacturing, mechanical and electrical equipment, wind power, integrated doors and windows, and environmental engineering. The headquarter is located in the Equipment Manufacturing Base of China – Shenyang City. After 19 years of innovation and development, Yuanda has established four manufacturing bases in Shenyang, Shanghai, Chengdu, and Foshan.

■The full operation of the 1.9 square kilometers Yuanda Modern Industrial Park which located in the western Shenyang Industrial Corridor marks the birth of the world's largest curtain wall and elevator manufacturing base.

■Yuanda Enterprise Group has opened up the high-end markets taking the United States and Japan as the center, the Southeast Asia market taking Singapore as the center, the European market taking United Kingdom and Germany as the center, the Middle East market taking U.A.E. as the center, the North Africa market taking Algiers as the center, and the Russia Federation market taking Moscow as the center. Its global sales and service network cover six continents all over the world, fully realizing the function of a comprehensive network of global business and service integration and radiation.

■With unending spirit of innovation and pursuit of "high quality, high technology, and high-end markets" branding, Yuanda has won the trust of the world.

■At present, projects constructed by Yuanda has been all over the world; the Russian Federation Tower, building height of 509 meters as the "tallest building in Europe"; the most difficult curtain wall engineering in the world – Japan COCOON Tower; Beijing 2008 Olympic National Swimming Stadium, the "Water Cube" and National Stadium the "Bird's Nest" has become unique landmark buildings in the world; Shanghai World Expo 2010 permanent stadium – the Expo Theme Pavilion and the Expo Center; project with the largest area in single contract in world curtain wall projects, Dubai Business Bay; the highest contract amount of a single contract, Abu Dhabi Commercial Center; Beijing New Poly Plaza, "the tallest building in South China" – Shenzhen Jingji Tower, Shanghai Oriental Art Center and other global landmark projects are all from Yuanda Enterprise Group.

■Yuanda has always been seeking for reputation and market with quality, realizing the perfect combination of world-class technology, talents, and first-class equipment, thus the continuous expansion of the core business of Yuanda is becoming the world-class R&D and talents centers of the elevator industry.

■Yuanda believes in the philosophy of "To do things honestly, to treat people sincerely", hoping with all of our friends around the world to build the Yuanda "world family". Yuanda wishes all the sincere people around the world have brilliant prospects!

SHENYANG BRILLIANT ELEVATOR CO.,LTD.

■Shenyang Brilliant Elevator Co., Ltd. affiliates with Yuanda Enterprise group, is a large specialized company engaged in designing, manufacturing, installation, and after-sales service of modern elevating products. In 2010, Shenyang Yuanda Enterprise Group invested 2.8 billion to build the Brilliant Elevator Industrial Park has been fully operational. With a total area of 0.9 square kilometers, the plants are built with aluminum plastic sheets and steel structure. The new plant reached production capacity of 50,000 units per year and became the largest elevator production base in the world. The 177 meters height elevator test tower will be the landmark building of elevator industry.

■"Revitalize national industry, create industry flagship." Since the day of foundation, Brilliant has based on the advancement and expansion of national industry, building native elevator brand. In 2009, Brilliant achieved No.1 in terms of exporting volume among Chinese native brands, and for two consecutive years nominated for the Chinese Elevator Enterprise Top Ten, and won the approval of worldwide clients with outstanding quality and competitive price, including the London 2012 Olympic supporting projects – Heathrow Airport, the transportation hub of Europe – Frankfurt Airrail Center, Beijing Metro, Shenyang Metro, and etc.. In a few years, Brilliant has obtained the European CE certification and Russia GOST certification for the full series of products, with quality products and perfect after-sales service to meet different customer needs. Currently, the sales and service network have covered 140 countries and regions, including the United States, Australia, Russia, Mexico, United Kingdom, Germany, and Singapore. Brilliant Elevator, with independent intellectual property rights as well as independent brand, is one of the leading elevator companies in the world.

Endless innovation

CNYD BLT Escalators

BLT–ES series escalator is designed and manufactured under the European Committee for Standardization EN115–1:2008+A1:2010 and EN115: 1995 "escalators and moving walkways manufacture and installation safety standards" (in line with GB16899–1997). It is widely used in commercial buildings, supermarkets, subway stations, railway stations, business centers and other public places, and is ideal transportation for connecting floor levels.

BLT–ES series escalator is divided into the two types of commercial and public transportation (heavy duty), commercial type includes the four models of ESP–W600/ESP–W610 and ESP–W300/ESP–W310, public transport type includes the six models ofESG–W300/ESG–W610/ESG–W400/ESG–W310 and ESG–B/ESG–W700, which are all designed and developed by BLT through devotion and determination, resulting the most contemporary high–quality products, meeting every aspect of market requirements.

Shenyang Brilliant Elevator Co., Ltd has been focusing on developing heavy–duty escalators for urban rail transportation since establishment. As the major equipment manufacturers of the Northeast region of China, BLT has undertaken the elevator projects for the Tianjin CITIC Plaza, Liaoyuan department stores, Qinhuangdao Fashion New World, and other large–scale projects. Shenyang Metro Line 1 and Line extension escalator project is a major municipal transportation infrastructure project of the city. The 18.5 meters high special designed heavy–duty public transportation type escalator is among the world leaders of high rise escalators, and the technical scope covers every category under the rise of 21 meters.

■ESP series commercial–type escalator is our main product which applies injection molded upper and lower entrance structure, with unique appearance, and black standard color is customizable according to user’s demand.

■ESP–W600/ESP–W610 series escalator is designed for a variety of occasions. Aluminum handrail brackets with optional handrail lighting equipments. The excellent performance meets the elegant and sophisticated commercial building interior, as well as other places.

■ESP–W300/ESP–W310 series escalator, with hairline stainless steel handrail bracket, is designed for department stores, office buildings and other places with elegant interior design. "Slim" handrail is not only easy hold tight, it improves riding comfort, and the compact shape blends in with surroundings, adding more modern flavor.

■ESG Series heavy–duty escalator is our main product, specially designed for subway stations, pedestrian overpasses and other public places. It is suitable for continuous operation with a large passenger capacity, and the optional stainless steel railing fence ensures safety and reliability even in extreme poor conditions.

■ESG–W300/ESG–W610 series escalator handrail brackets are made of aluminum structure, with optional lighting device; ESG–W400/ESG–W310 series escalator handrail brackets are made of hairline stainless steel, the slim handrail emphasizes the characteristic of simple and bright; ESG–B/ESG–W700 series escalator tilted handrails are made of stainless steel, with strengthen gold bars in the center called the "V–type handrail", handrail wheel with V–pulleys, rails guide are made of cold–drawn hairline stainless steel, which all contribute to more smooth operation. With the abolition of the traditional pressure band structure, handrail life is improved.

Actual projects may be slightly different from the standard

A PERFECT ANNOTATION OF
PERSONALIZED DESIGN

■BLT escalator, integrated with the most advanced modern control technology and control concepts, is safe and reliable, fully functional, smooth and comfortable, energy efficient, easy to maintain, economical and practical, meeting various customer needs.

■Adopting microcomputer (or PLC) mater controller, with the characteristic of anti–interference, stable and reliable operation. According to the different operation starting mode: 1 Star delta–activation type; 2, the frequency vector control type. Through frequency start, the starting current is reduced and the escalator is more stable, extending the life of the escalator, meanwhile greatly reduces the power consumption. If frequency control is selected, the escalator is able to run as follows: the escalator starts slowly before running at rated speed when passenger is detected, and the escalator slows down or stop with no passenger, more energy efficient.

■After power on the escalator, operation status and fault information displays on the information display window, making maintenance more convenient.

Auto–start escalator

AN EFFICIENT ENERGY–SAVING AND ENVIRONMENT–FRIENDLY PLATFORM

■Achieving automatic escalator operation through detection devices for passenger detection. Escalator starts running, or starts the transition from low speed to rated speed after passengers enter the surveillance zone, the escalator will set back to the energy–saving mode with no passenger for a set time. This function of the escalator is ideal in a variety of places with high traffic and traffic with intermittent changes. A mass amount of energy could be saved in the above occasions using the escalators with this feature.

Information Display Window

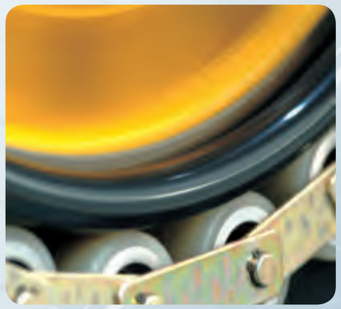
After power on the escalator, operation status and fault information displays on the information display window, making maintenance more convenient.

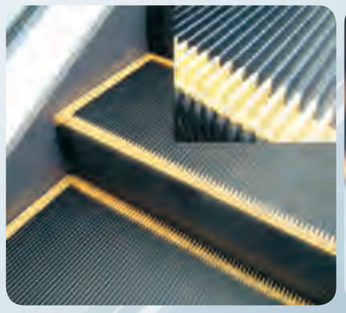
Automatic refueling device

Regular automatic refueling system lubricates moving parts and greatly reduces the maintenance workload.

Roller belt pressure device

Roller belt pressure device ensures the synchronization operation of the handrail, result in more safety and reliability of the operation, as well as reducing frequency of maintenance down to the minimum.





Indicator showing escalator in service

Stainless Steel Steps

The non–slip tread design of the stainless steel step improves safety.

Indicator showing escalator out of service

ELECTRO-MECHANICAL DEVICE

■ MPK108 standard functions

1.Emergency stop switch
In case of emergency, push this button to stop the escalator.

2.Overload protection
When overloaded, the power will be cut, and the escalator will stop.

3.Power phase failure and wrong phase protection
The escalator will stop when power phase or wrong phase fail.

4.Electromagnetic brake
To guarantee the appropriate braking distance for the safety of passengers when escalator stops.

5.Comb safety device
When object is stuck between the step and the comb plate, the escalator will stop.

6.Unintentional reversal of travel direction
When escalator changes its set travel direction, the escalator will stop.

7.Over–speed governor
When over–speed, the escalator will stop.

8.Drive chain guard
When drive chain is excessively pulled through or broken, the escalator will stop.

9.Step safety device
In abnormal conditions caused by deformation or other reasons, the escalator will stop.

10.Step yellow demarcation line
A sign indicating the safe location where the passengers shall stand.

11.Skirt panel safety switch
When something is stuck between the step and skirt panel, the escalator will stop.

12.Handrail entry safety device
When something is stuck into the handrail, the escalator will stop.

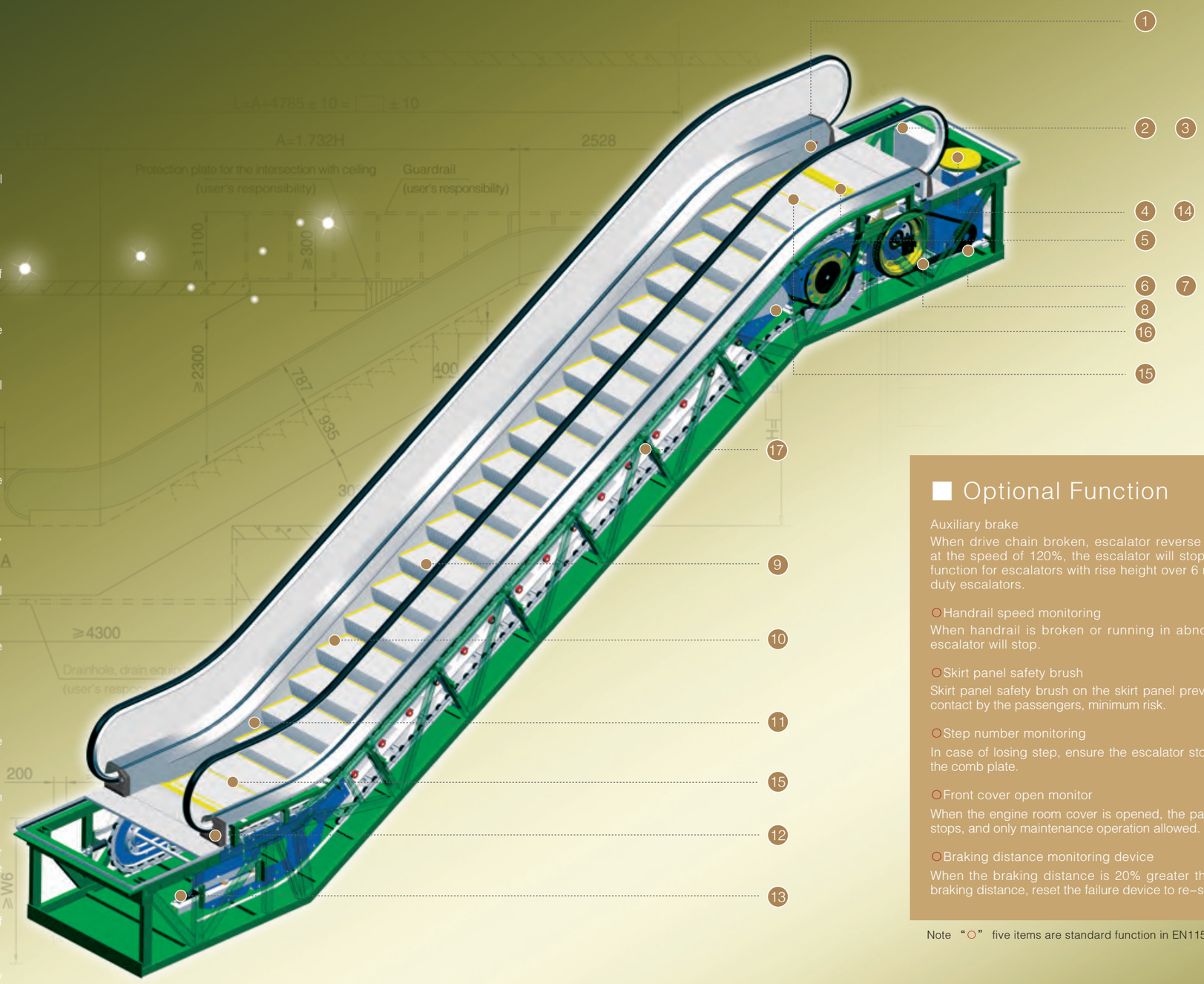
13.Step chain safety device
When traction chain is excessively pulled through or broken, the escalator will stop.

14.Brake release monitoring device
Detect the brake when the master controller outputs brake on signal, escalator can not be started before brake is released.

15.Step lighting
Lighting installed at the bottom of steps of upper & lower entrance/exit in order for passengers clearly understand the operation status of steps

16.Step static eliminator
Make use of the static brush to remove the static electricity of the step.

17.Handrail static eliminator
Make use of the metal roller to remove the static electricity accumulated on the handrail.



■ Optional Function

Auxiliary brake
When drive chain broken, escalator reverse travel, or travels at the speed of 120%, the escalator will stop; it is a standard function for escalators with rise height over 6 meters or heavy–duty escalators.

○Handrail speed monitoring
When handrail is broken or running in abnormal speed, the escalator will stop.

○Skirt panel safety brush
Skirt panel safety brush on the skirt panel prevents unintentional contact by the passengers, minimum risk.

○Step number monitoring
In case of losing step, ensure the escalator stop before it enters the comb plate.

○Front cover open monitor
When the engine room cover is opened, the passenger conveyor stops, and only maintenance operation allowed.

○Braking distance monitoring device
When the braking distance is 20% greater than the maximum braking distance, reset the failure device to re–start.

Note "○" five items are standard function in EN115–1:2008+A1:2010

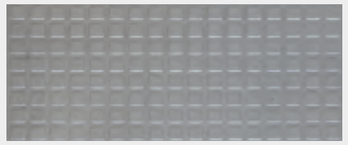
A VARIETY OF HANDRAIL STYLES AND COLORS

BRING OUT THE BEST OF YOUR BUILDING

There may be color shading on handrail from actual object, please take the real product as standard.

Entrance and exit floor

Black stainless steel groove



True color stainless steel groove

Etched Stainless Steel

PRODUCT SPCIFICATION

ITS RELATIVE COMPONENTS

ESP–W600(EN115:1995)		ESP–W610(EN115–1:2008+A1:2010)	
Rise Height	3～6m	Rise Height	3～6m
Angle of inclination	30° / 35°	Angle of inclination	30° / 35°
Step Width	600/800/1000mm	Step Width	600/800/1000mm
Rated Speed	0.5m/s	Rated Speed	0.5m/s
Horizontal Steps	2	Horizontal Steps	2
Theoretical Capacity	4500/6750/9000 (Person/hour)	Theoretical Capacity	3600/4800/6000 (Person/hour)
Power	50HZ ACthree–phase380V Single phase220V or according to regional requirements	Power	50HZ ACthree–phase380V Single phase220V or according to regional requirements
Traction Machine	Three–phase AC motor	Traction Machine	Three–phase AC motor
Control Mode	MPK108	Control Mode	MPK108
Start Operation Mode	Star Delta Start;Optional VVVF photoelectric detection start	Start Operation Mode	Star Delta Start;Optional VVVF photoelectric detection start
Handrail Guard Plate	10mm thick enhanced safety glass;Optional vertical hairline stainless steel	Handrail Guard Plate	10mm thick enhanced safety glass;Optional vertical hairline stainless steel
Handrail Bracket	Anodized aluminum alloy	Handrail Bracket	Anodized aluminum alloy
Handrail	Black synthetic rubber; Other colors available	Handrail	Black synthetic rubber; Other colors available
Interior & Exterior Cover	Hairline stainless steel	Interior & Exterior Cover	Hairline stainless steel
Skirting	Hairline stainless steel;Optional black or green teflon–coated steel	Skirting	Skirting brush;Hairline stainless steel;Optional black or green teflon–coated steel
Handrail Lighting	Optional	Handrail Lighting	Optional
Skirting Lighting	Optional	Skirting Lighting	Optional
Comb Lighting	Optional	Comb Lighting	Optional
Step	Stainless steel with yellow safety line；Optional aluminum alloy with yellow safety line	Step	Stainless steel with yellow safety line；Optional aluminum alloy with yellow safety line
Entrance & Exit Flooring	Black press stainless steel groove；Optional true color press stainless steel groove，Etched Stainless Steel	Entrance & Exit Flooring	Black press stainless steel groove；Optional true color press stainless steel groove，Etched Stainless Steel
Comb Plate	Yellow resin; optional aluminum	Comb Plate	Yellow resin; optional aluminum
		Machine–room	Braking distance monitoring device
			Step loss detection
			Front cover open monitor
		Handrail System	Handrail speed monitoring

ESP–W300(EN115:1995)		ESP–W310(EN115–1:2008+A1:2010)	
Rise Height	3～6m	Rise Height	3～6m
Angle of inclination	30° / 35°	Angle of inclination	30° / 35°
Step Width	600/800/1000mm	Step Width	600/800/1000mm
Rated Speed	0.5m/s	Rated Speed	0.5m/s
Horizontal Steps	2	Horizontal Steps	2
Theoretical Capacity	4500/6750/9000 (Person/hour)	Theoretical Capacity	3600/4800/6000 (Person/hour)
Power	50HZ ACthree–phase380V Single phase220V or according to regional requirements	Power	50HZ ACthree–phase380V Single phase220V or according to regional requirements
Traction Machine	Three–phase AC motor	Traction Machine	Three–phase AC motor
Control Mode	MPK108	Control Mode	MPK108
Start Operation Mode	Star Delta Start;Optional VVVF photoelectric detection start	Start Operation Mode	Star Delta Start;Optional VVVF photoelectric detection start
Handrail Guard Plate	10mm thick enhanced safety glass;Optional vertical hairline stainless steel	Handrail Guard Plate	10mm thick enhanced safety glass;Optional vertical hairline stainless steel
Handrail Bracket	Hairline stainless steel	Handrail Bracket	Hairline stainless steel
Handrail	Black synthetic rubber; Other colors available	Handrail	Black synthetic rubber; Other colors available
Interior & Exterior Cover	Hairline stainless steel	Interior & Exterior Cover	Hairline stainless steel
Skirting	Hairline stainless steel;Optional black or green teflon–coated steel	Skirting	Skirting brush;Hairline stainless steel;Optional black or green teflon–coated steel
Comb lighting	Optional	Comb lighting	Optional
Skirting Lighting	Optional	Skirting Lighting	Optional
Step	Stainless steel with yellow safety line；Optional aluminum alloy with yellow safety line	Step	Stainless steel with yellow safety line；Optional aluminum alloy with yellow safety line
Entrance & Exit Flooring	Black press stainless steel groove；Optional true color press stainless steel groove，Etched Stainless Steel	Entrance & Exit Flooring	Black press stainless steel groove；Optional true color press stainless steel groove，Etched Stainless Steel
Comb Plate	Yellow resin; optional aluminum	Comb Plate	Yellow resin; optional aluminum
		Machine–room	Braking distance monitoring device
			Step loss detection
			Front cover open monitor
		Handrail System	Handrail speed monitoring

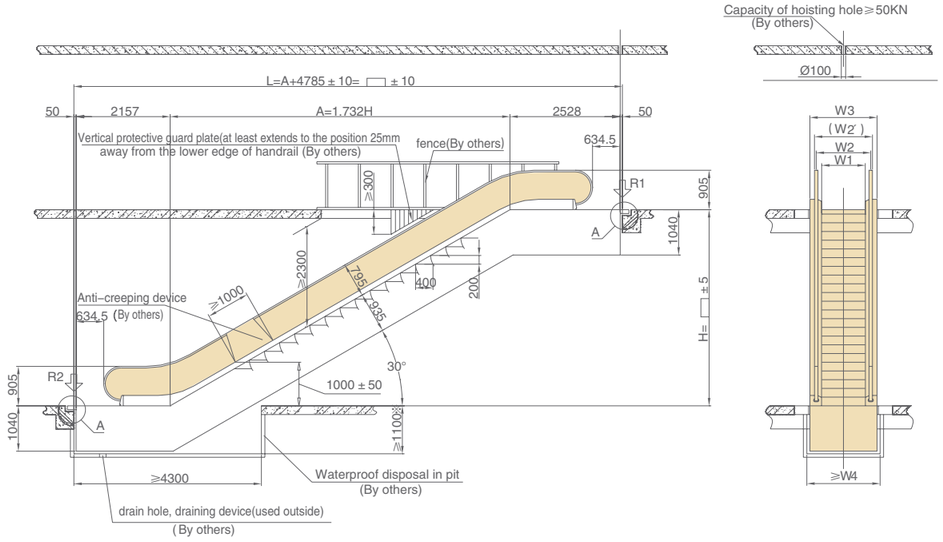
ESG-W300(EN115:1995)		ESG-W610(EN115-1:2008+A1:2010)	
Rise Height	4 ~ 10m	Rise Height	4 ~ 10m
Angle of inclination	30°	Angle of inclination	30°
Step Width	800/1000mm	Step Width	800/1000mm
Rated Speed	0.5m/s	Rated Speed	0.5m/s
Horizontal Steps	3	Horizontal Steps	3
Theoretical Capacity	6750/9000(Person/hour)	Theoretical Capacity	4800/6000(Person/hour)
Power	50HZ ACthree-phase380V Single phase220V or according to regional requirements	Power	50HZ ACthree-phase380V Single phase220V or according to regional requirements
Traction Machine	Three-phase AC motor	Traction Machine	Three-phase AC motor
Control Mode	MPK108	Control Mode	MPK108
Start Operation Mode	Star Delta Start;Optional VVVF photoelectric detection start	Start Operation Mode	Star Delta Start;Optional VVVF photoelectric detection start
Handrail Guard Plate	10mm thick enhanced safety glass;Optional vertical hairline stainless steel	Handrail Guard Plate	10mm thick enhanced safety glass;Optional vertical hairline stainless steel
Handrail Bracket	Anodized aluminum alloy	Handrail Bracket	Anodized aluminum alloy
Handrail	Black synthetic rubber; Other colors available	Handrail	Black synthetic rubber; Other colors available
Interior & Exterior Cover	Hairline stainless steel	Interior & Exterior Cover	Hairline stainless steel
Skirting	Hairline stainless steel;Optional black or green teflon-coated steel	Skirting	Skirting brush;Hairline stainless steel;Optional black or green teflon-coated steel
Handrail Lighting	Optional	Handrail Lighting	Optional
Skirting Lighting	Optional	Skirting Lighting	Optional
Comb Lighting	Optional	Comb Lighting	Optional
Step	Stainless steel with yellow safety line; Optional aluminum alloy with yellow safety line	Step	Stainless steel with yellow safety line; Optional aluminum alloy with yellow safety line
Entrance & Exit Flooring	Black press stainless steel groove; Optional true color press stainless steel groove, Etched Stainless Steel	Entrance & Exit Flooring	Black press stainless steel groove; Optional true color press stainless steel groove, Etched Stainless Steel
Comb Plate	Yellow resin; optional aluminum	Comb Plate	Yellow resin; optional aluminum
		Machine-room	Braking distance monitoring device
			Step loss detection
			Front cover open monitor
		Handrail System	Handrail speed monitoring

ESG-W400(EN115:1995)		ESG-W310(EN115-1:2008+A1:2010)	
Rise Height	4 ~ 10m	Rise Height	4 ~ 10m
Angle of inclination	30°	Angle of inclination	30°
Step Width	800/1000mm	Step Width	800/1000mm
Rated Speed	0.5m/s	Rated Speed	0.5m/s
Horizontal Steps	3	Horizontal Steps	3
Theoretical Capacity	6750/9000(Person/hour)	Theoretical Capacity	4800/6000(Person/hour)
Power	50HZ ACthree-phase380V Single phase220V or according to regional requirements	Power	50HZ ACthree-phase380V Single phase220V or according to regional requirements
Traction Machine	Three-phase AC motor	Traction Machine	Three-phase AC motor
Control Mode	MPK108	Control Mode	MPK108
Start Operation Mode	Star Delta Start;Optional VVVF photoelectric detection start	Start Operation Mode	Star Delta Start;Optional VVVF photoelectric detection start
Handrail Guard Plate	10mm thick enhanced safety glass;Optional vertical hairline stainless steel	Handrail Guard Plate	10mm thick enhanced safety glass;Optional vertical hairline stainless steel
Handrail Bracket	Hairline stainless steel	Handrail Bracket	Hairline stainless steel
Handrail	Black synthetic rubber; Other colors available	Handrail	Black synthetic rubber; Other colors available
Interior & Exterior Cover	Hairline stainless steel	Interior & Exterior Cover	Hairline stainless steel
Skirting	Hairline stainless steel;Optional black or green teflon-coated steel	Skirting	Skirting brush;Hairline stainless steel;Optional black or green teflon-coated steel
Skirting Lighting	Optional	Skirting Lighting	Optional
Comb Lighting	Optional	Comb Lighting	Optional
Step	Stainless steel with yellow safety line; Optional aluminum alloy with yellow safety line	Step	Stainless steel with yellow safety line; Optional aluminum alloy with yellow safety line
Entrance & Exit Flooring	Black press stainless steel groove; Optional true color press stainless steel groove, Etched Stainless Steel	Entrance & Exit Flooring	Black press stainless steel groove; Optional true color press stainless steel groove, Etched Stainless Steel
Comb Plate	Yellow resin; optional aluminum	Comb Plate	Yellow resin; optional aluminum
		Machine-room	Braking distance monitoring device
			Step loss detection
			Front cover open monitor
		Handrail System	Handrail speed monitoring

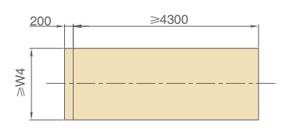
30° ESCALATOR SCHEME DRAWING

ESP-W300(EN115:1995)/ESP-W310(EN115-1:2008+A1:2010)

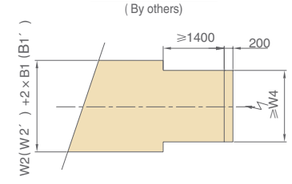
■ 3000≤H≤6000 Number of horizontal steps: 2



Bottom pit
(By others)



Openings of upper floor
(By others)



■ Dimensions

	Step 600	Step 800	Step 1000
W1(Step Width)	600	800	1000
W2(width of handrail center)	850	1050	1250
W2´(width of outer edge of handrail)	930	1130	1330
W3(escalator width)	1140	1340	1540
W4(pit width)	1240	1440	1640

■ Supporting Load

Specifications	Rise Height		3000	3500	4000	4500	5000	5500	6000
Step1000	Escalator Weight	G(KN)	66	70	74	78	86	90	94
	Supporting Load	R1(KN)	62	66	70	74	80	85	89
		R2(KN)	54	58	62	66	72	77	81
Step800	Escalator Weight	G(KN)	62	66	70	73	77	81	85
	Supporting Load	R1(KN)	55	58	62	66	69	73	77
		R2(KN)	47	51	54	58	61	65	69
Step600	Escalator Weight	G(KN)	59	62	66	69	73	77	80
	Supporting Load	R1(KN)	48	51	54	57	61	64	67
		R2(KN)	40	43	47	50	53	56	59

■ Traction Machine Power Meter

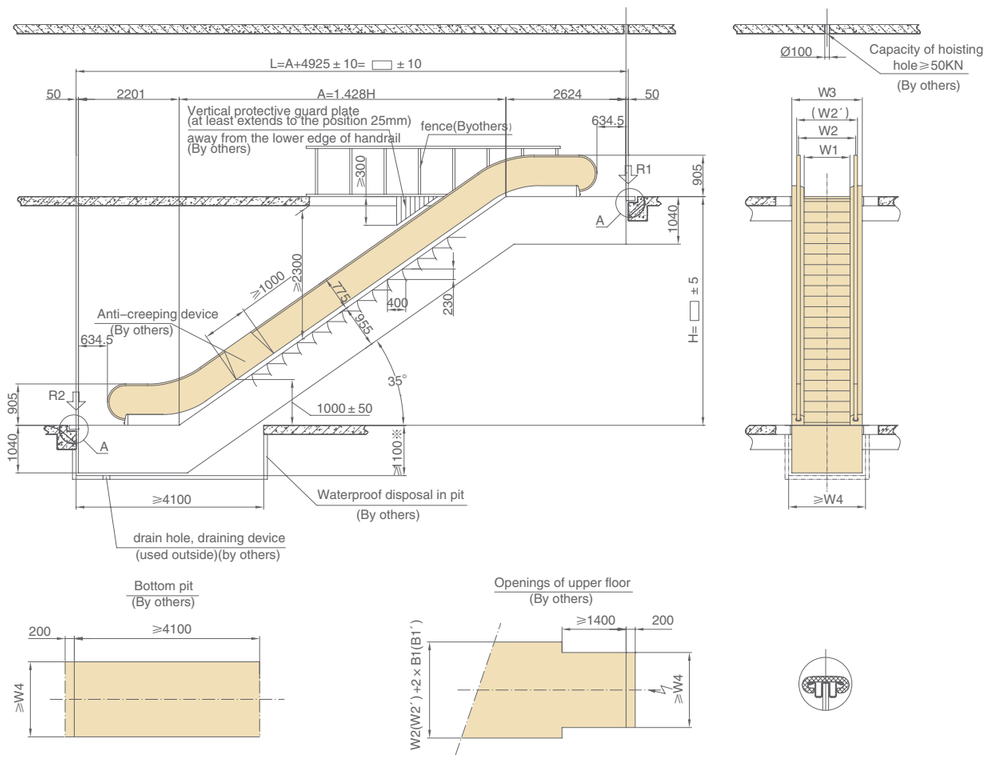
Step Width mm			Traction Machine Power (KW)
600	800	1000	
Rise Height mm			
1500~5100	1500~4000	1500~3350	5.5
5101~6000	4001~5650	3351~4700	8
	5651~6000	4701~6000	11

Note: 1. Dimension of 1340 for the outdoor escalator with "※";
2. Figures with not indication are all in millimeters, enlargement A on page 19;
3. Use insertion method for the supporting load of the escalators with no rise height listed.
4.The sizes of W2 and B1 in the drawing conform to EN115:1995;the sizes of W2´ and B1´ conform to EN115-1:2008+A1:2010.

35° ESCALATOR SCHEME DRAWING

ESP–W300(EN115:1995)/ESP–W310(EN115–1:2008+A1:2010)

■ 3000≤H≤6000 Number of horizontal steps: 2



■ Dimensions

	Step 600	Step 800	Step 1000
W1(Step Width)	600	800	1000
W2(width of handrail center)	850	1050	1250
W2´(width of outer edge of handrail)	930	1130	1330
W3(escalator width)	1140	1340	1540
W4(pit width)	1240	1440	1640

■ Supporting Load

Step Width	Rise Height		3000	3500	4000	4500	5000	5500	6000
1000	Escalator Weight	G(KN)	62	66	69	73	77	80	85
	Supporting Load	R1(KN)	58	62	65	69	72	76	81
		R2(KN)	50	53	57	61	64	68	73
800	Escalator Weight	G(KN)	59	62	65	69	72	75	79
	Supporting Load	R1(KN)	52	55	58	61	64	67	70
		R2(KN)	43	47	50	53	56	59	62
600	Escalator Weight	G(KN)	56	59	62	65	68	71	75
	Supporting Load	R1(KN)	45	48	51	53	56	59	61
		R2(KN)	38	40	43	46	48	51	53

■ Traction Machine Power Meter

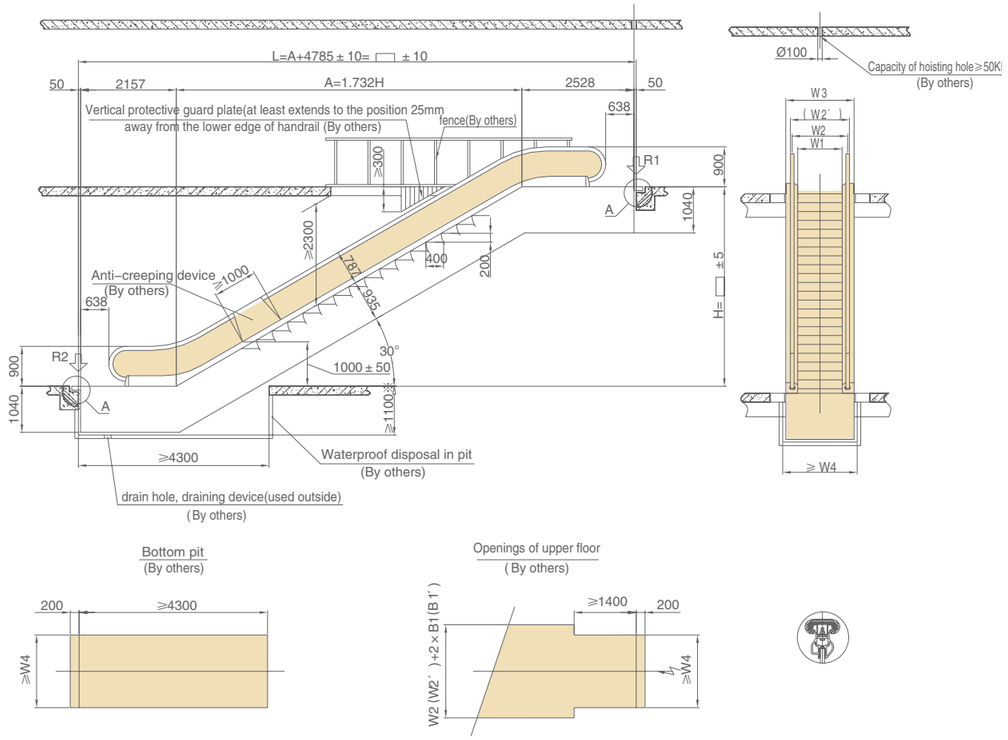
Step Width mm			Traction Machine Power (KW)
600	800	1000	
Rise Height mm			
1500~5500	1500~4200	1500~3500	5.5
5501~6000	4201~6000	3501~5000	8
		5001~6000	11

Note: 1. Dimension of 1340 for the outdoor escalator with "※";
2. Figures with not indication are all in millimeters, enlargement A on page 19;
3. Use insertion method for the supporting load of the escalators with no rise height listed.
4.The sizes of W2 and B1 in the drawing conform to EN115:1995;the sizes of W2´ and B1´ conform to EN115–1:2008+A1:2010.

30° ESCALATOR SCHEME DRAWING

ESP–W600(EN115:1995)/ESP–W610(EN115–1:2008+A1:2010)

■ 3000≤H≤6000 Number of horizontal steps: 2



■ Dimensions

	Step 600	Step 800	Step 1000
W1(Step Width)	600	800	1000
W2(width of handrail center)	850	1050	1250
W2´(width of outer edge of handrail)	932	1132	1332
W3(escalator width)	1140	1340	1540
W4(pit width)	1240	1440	1640

■ Supporting Load

Specifications	Rise Height		3000	3500	4000	4500	5000	5500	6000
Step1000	Escalator Weight	G(KN)	66	70	74	78	86	90	94
	Supporting Load	R1(KN)	62	66	70	74	80	85	89
		R2(KN)	54	58	62	66	72	77	81
Step800	Escalator Weight	G(KN)	62	66	70	73	77	81	85
	Supporting Load	R1(KN)	55	58	62	66	69	73	77
		R2(KN)	47	51	54	58	61	65	69
Step600	Escalator Weight	G(KN)	59	62	66	69	73	77	80
	Supporting Load	R1(KN)	48	51	54	57	61	64	67
		R2(KN)	40	43	47	50	53	56	59

■ Traction Machine Power Meter

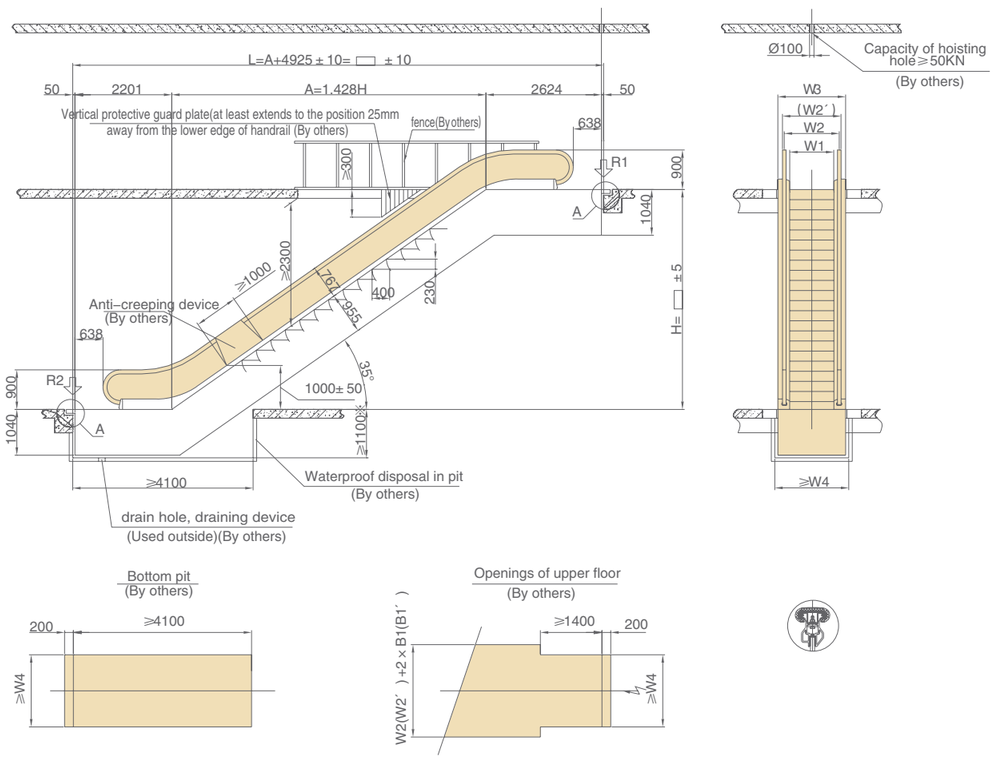
Step Width mm			Traction Machine Power (KW)
600	800	1000	
Rise Height mm			
1500~5100	1500~4000	1500~3350	5.5
5101~6000	4001~5650	3351~4700	8
	5651~6000	4701~6000	11

Note: 1. Dimension of 1340 for the outdoor escalator with "※";
2. Figures with not indication are all in millimeters, enlargement A on page 19;
3. Use insertion method for the supporting load of the escalators with no rise height listed.
4.The sizes of W2 and B1 in the drawing conform to EN115:1995;the sizes of W2´ and B1´ conform to EN115–1:2008+A1:2010.

35° ESCALATOR SCHEME DRAWING

ESP–W600(EN115:1995)/ESP–W610(EN115–1:2008+A1:2010)

■ 3000≤H≤6000 Number of horizontal steps: 2



■ Dimensions

	Step 600	Step 800	Step 1000
W1(Step Width)	600	800	1000
W2(width of handrail center)	850	1050	1250
W2´(width of outer edge of handrail)	932	1132	1332
W3(escalator width)	1140	1340	1540
W4(pit width)	1240	1440	1640

■ Supporting Load

Step Width	Rise Height		3000	3500	4000	4500	5000	5500	6000
1000	Escalator Weight	G(KN)	62	66	69	73	77	80	85
	Supporting Load	R1(KN)	58	62	65	69	72	76	81
		R2(KN)	50	53	57	61	64	68	73
800	Escalator Weight	G(KN)	59	62	65	69	72	75	79
	Supporting Load	R1(KN)	52	55	58	61	64	67	70
		R2(KN)	43	47	50	53	56	59	62
600	Escalator Weight	G(KN)	56	59	62	65	68	71	75
	Supporting Load	R1(KN)	45	48	51	53	56	59	61
		R2(KN)	38	40	43	46	48	51	53

■ Traction Machine Power Meter

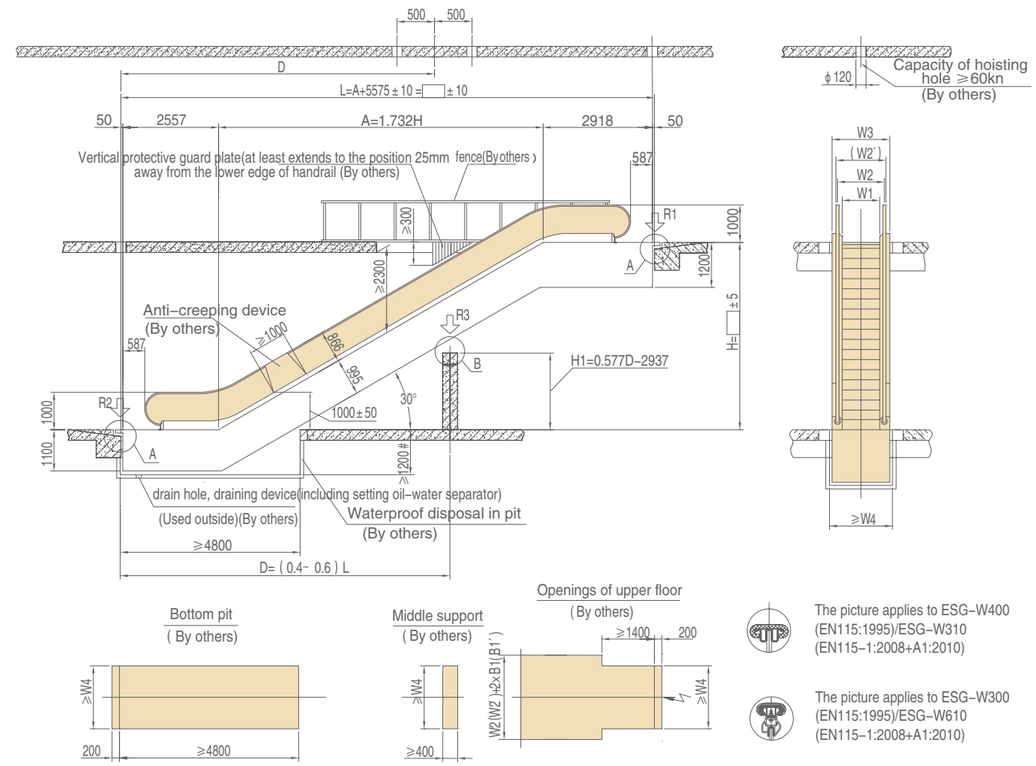
Step Width mm			Traction Machine Power (KW)
600	800	1000	
Rise Height mm			
1500~5500	1500~4200	1500~3500	5.5
5501~6000	4201~6000	3501~5000	8
		5001~6000	11

Note: 1. Dimension of 1340 for the outdoor escalator with "※";
2. Figures with not indication are all in millimeters, enlargement A on page 19;
3. Use insertion method for the supporting load of the escalators with no rise height listed.
4.The sizes of W2 and B1 in the drawing conform to EN115:1995;the sizes of W2´ and B1´ conform to EN115–1:2008+A1:2010.

30° ESCALATOR SCHEME DRAWING

ESG–W300(EN115:1995)/ESG–W610(EN115–1:2008+A1:2010)
ESG–W400(EN115:1995)/ESG–W310(EN115–1:2008+A1:2010)

■ 4000≤H≤10000 Number of horizontal steps: 3



■ Dimensions

	Step 800	Step 1000
W1(Step Width)	800	1000
W2(width of handrail center)	1050	1250
W2´(width of outeredge of handrail) ESG–W300/W610	1132	1332
W2´(width of outeredge of handrail) ESG–W400/W310	1130	1330
W3(escalator width)	1340	1540
W4(pit width)	1440	1640

■ Supporting Load

Rise Height		2500≤H≤5500		5500<H≤10000		
Reaction of supports		R1	R2	R1	R2	R3
Step Width	800	4.54L+14.52	4.55L+5.07	2.14L+13.57	2.24L+3.35	5.64L+4.08
	1000	4.94L+15.27	5.22L+5.24	2.26L+17.65	2.67L+3.36	6.20L+5.44

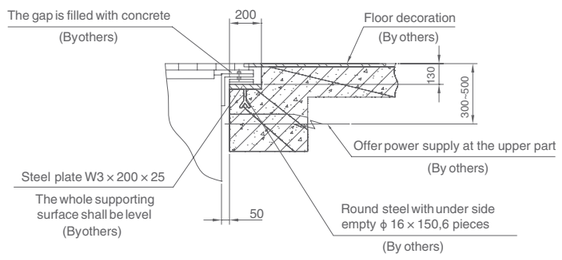
■ Traction Machine Power Meter

Step Width mm		Traction Machine Power (KW)
800	1000	
Rise Height mm		
2500~3700	2500~3000	5.5
3701~5400	3001~4400	8
5401~7400	4401~6000	11
7401~8700	6001~7200	13
8701~10000	7201~8200	15
	8201~9500	18.5
	9501~10000	20

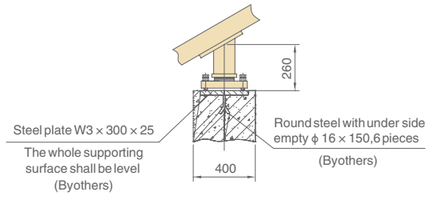
Note: 1. Dimension of 1400 for the outdoor escalator with "#";
2. The L in reaction of supports formula is in meters，other figures with not indication are all in millimeters, enlargement A 、B on page 19;
3.The sizes of W2 and B1 in the drawing conform to EN115:1995;the sizes of W2´ and B1´ conform to EN115–1:2008+A1:2010.

Guarding device (By others, Should be in accordance with local safety rules) and the distance between escalator refer below, Passenger Conveyor the same (page 30) 。

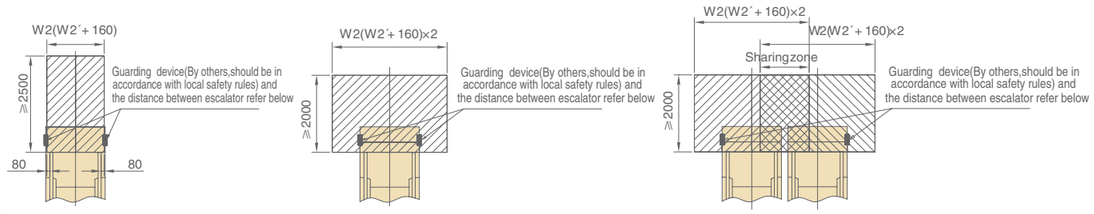
A enlarged



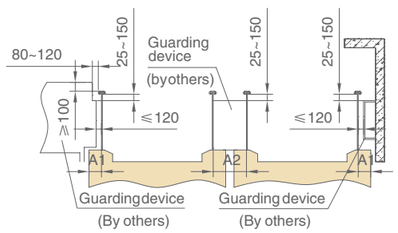
B enlarged



Boarding zone

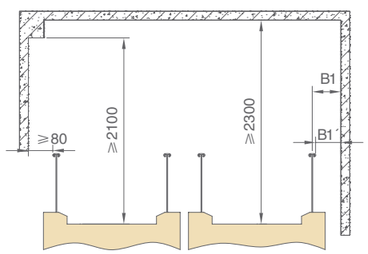


Guarding device at access



When the passenger conveyor is adjacent to the wall and width A1 of exterior cover plate is more than 125mm, install guarding devices at the upper and lower ends; When the passenger conveyor is arranged in parallel and width A2 of shared exterior cover plate is more than 125mm, install guarding device as well.

Distance between building structure and escalator



1. When the distance B1 between the center of handrail and any obstacle is no less than 500mm, there is no need to set vertical protective guard plate. (performing EN115:1995)
2. When the distance B1' between the exterior edge and any obstacle is no less than 400mm, there is no need to set vertical protective guard plate. (performing EN115-1:2008+A1:2010)

MPK208 standard functions (only for ESG-B;ESG-W700)

ESG-B(EN115:1995)			
Rise Height	4~18.5m	Handrail Bracket	Hairline stainless steel
Angle of inclination	30°	Handrail	Black synthetic rubber; Other colors available
Step Width	800/1000mm	Skirting	Hairline stainless steel
Rated Speed	0.65m/s	Step	Stainless steel with yellow safety line;optional aluminum alloy with yellow safety line
Horizontal Steps	4		
Theoretical Capacity	8775/11700(Person/hour)	Entrance & Exit Flooring	Etched stainless steel,Optional true color press stainless steel groove, Black press stainless steel groove;
Power	50HZ ACthree-phase380V Single phase220V or according to regional requirements	Comb Plate	Yellow resin; optional aluminum
Traction Machine	Three-phase AC motor		
Control Mode	MPK208		
Start Operation Mode	Star Delta with Bypass frequency conversion start		
Handrail Guard Plate	Tilting hairline stainless steel		

ESG-W700(EN115-1:2008+A1:2010)			
Rise Height	4~18.5m	Handrail Bracket	Hairline stainless steel
Angle of inclination	30°	Handrail	Black synthetic rubber; Other colors available
Step Width	800/1000mm	Skirting	Skirting brush;Hairline stainless steel;
Rated Speed	0.65m/s	Step	Optional stainless steel with yellow safety line;aluminum alloy with yellow safety line
Horizontal Steps	4		
Theoretical Capacity	5900/7300(Person/hour)	Entrance & Exit Flooring	Etched stainless steel,Optional true color press stainless steel groove, Black press stainless steel groove;
Power	50HZ ACthree-phase380V Single phase220V or according to regional requirements	Comb Plate	optional Yellow resin; aluminum
Traction Machine	Three-phase AC motor	Machine-room	Braking distance monitoring device
Control Mode	MPK208		Step loss detection
Start Operation Mode	Star delta with bypass frequency conversion start		Front cover open monitor
Handrail Guard Plate	Tilting hairline stainless steel	Handrail System	Handrail speed monitoring

1.Emergency stop switch
In case of emergency, push this button to stop the escalator.
2.Star-delta and frequency conversion start method
Select the star-delta or frequency conversion start method by external key.
3.Handrail entry safety device
When something is stuck into the handrail entry, the escalator will stop.
4.Slow running function
When no passenger takes the escalator, it will run with the energy-saving speed automatically.
5.Step uprush protection
When the uprush takes place, the escalator will stop.
6.Comb safety device
When object is stuck between the step and the comb plate, the escalator will stop.
7.Overload protection
When the drive motor is overloaded, the power will be cut automatically, and the escalator will stop.
8.Power phase failure and wrong phase protection
The escalator will stop when power phase failure or wrong phase takes place.
9.Explosion proof lamp
There should be the explosion proof lamp with safety voltage in machine room.
10.Chronograph function
Record the escalator running time by hour meter.
11.Current monitoring
Check the current while the escalator is running.
12.Electromagnetic brake
Guarantee the appropriate braking distance for the safety of passengers when the escalator stops.
13.RS485 communication
By making use of RS485 communication, the escalator can communicate with the master machine and submit the escalator running state.
14.Unintentional reversal of travel direction
When the escalator changes the set travel direction, the escalator will stop.
15.Overspeed protection device
When over-speed, the escalator will stop.
16.Drive chain safety device
When drive chain is excessively pulled or broken, the escalator will stop.
17.Auxiliary brake
When drive chain is broken, escalator does reverse travel, or travels at the overspeed of 120%, the device acts and the escalator will stop.
18.Step safety device
In abnormal conditions caused by deformation or other reasons, the escalator will stop.
19.Step yellow demarcation line
It is a sign indicating the safe location where the passengers shall stand.
20.Skirt panel safety switch
When something is stuck between the step and skirt panel, the escalator will stop.
21.Step static eliminator
Make use of the static brush to remove the static electricity of the step.
22.Handrail static eliminator
Make use of the metal roller to remove the static electricity accumulated on the handrail.
23.Step chain safety switch
When the traction chain is excessively pulled or broken, the escalator will stop.
24.Water level switch
When the water in the lower machine room of escalator reaches a certain level, the switch makes the escalator stop.
25.Step lighting
The lighting lamps are installed at the lower part of steps of upper and lower entrance/exit so that the passengers can understand the running state of steps clearly.
26.Brake release monitoring device
Detect whether brake is released after the main controller outputs brake control signal, and the escalator cannot start until brake is released.
27.Anti-theft for entrance floor plate
The magnetic lock has been installed on the cover plate of machine room, and the alarm bell in monitor room will ring if the cover plate is opened abnormally.

Optional function

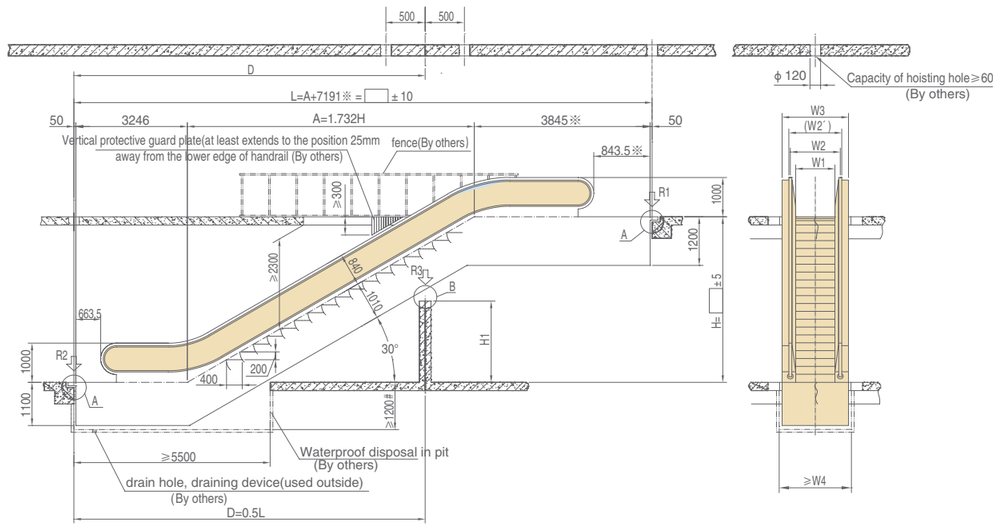
■Entrance floor plate protection
When the cover of machine room is opened, escalator can not be started normally, but only started by inspection control device.
■Handrail speed monitoring
Escalator will stop running when the speed of handrail deviates from speed of step by more than -15% and lasts for more than 15s.
■Skirt panel brush
Skirt panel brush will protect passengers from unintentional contacting with skirt panel, so as to lower the risk of squeezing.
■Step number monitoring
In case of losing step, ensure the escalator stop before it enters the comb plate.
■Braking distance detecting
When the braking distance exceeds the allowed distance, escalator can not be restarted until the escalator failure lock device is reset.

Notice:
The optional functions above are standard in EN115-1:2008+A1:2010. RS485 communication only provides the interface, not including the cables or wires that connect to the supervisory control room.

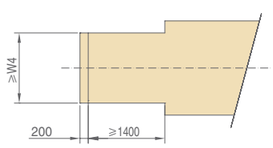
30° ESCALATOR SCHEME DRAWING

ESG–B(EN115:1995)/ESG–W700(EN115–1:2008+A1:2010)

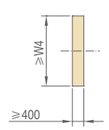
■ 4000≤H≤10000 Number of horizontal steps: 4



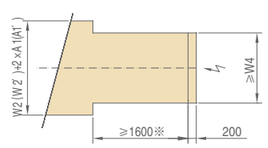
Openings of lower floor
(By others)



Middle support
(By others)



Openings of upper floor
(By others)



■ Dimensions

	Step 800	Step 1000
W1(Step Width)	800	1000
W2 (Handrail center width)	1100	1300
W2´ (Handrail outer edge width)	1176	1376
W3(Escalator width)	1400	1600
W4(Shaft Width)	1500	1700
H1 (Middle support height)	0.577D–3352	

■ Supporting Load

Rise Height		4000≤H≤4500		4500＜H≤10000		
Reaction of supports		R1	R2	R1	R2	R3
Step Width	800	4.54L+14.52	4.55L+5.07	2.14L+13.57	2.24L+3.35	5.64L+4.08
	1000	4.94L+15.27	5.22L+5.24	2.26L+17.65	2.67L+3.36	6.20L+5.44

■ Traction Machine Power Meter

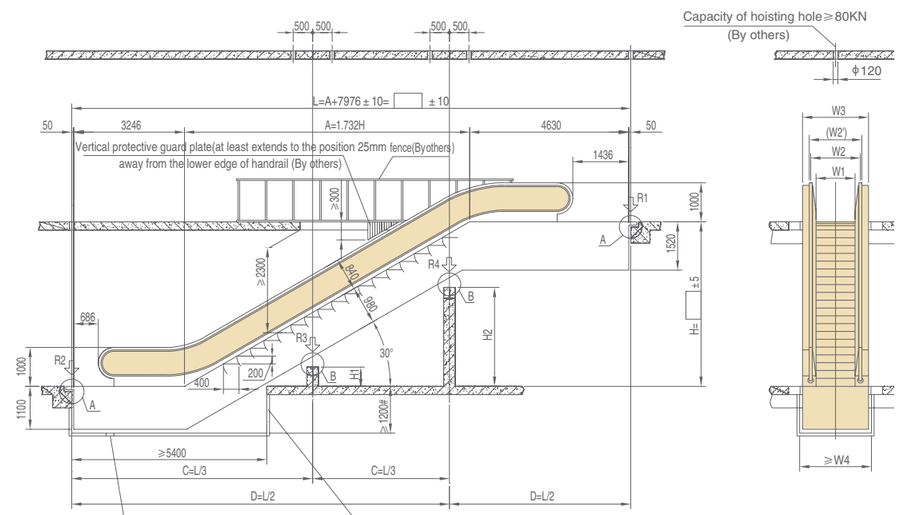
Rated speed m/s	Step Width mm	Rise Height mm	Power KW
0.65	1000	4000~4650	11
		4651~6100	13
		6101~7000	15
		7001~8600	18.5
		8601~10000	22
	800	4000~4150	8
		4151~5650	11
		5651~7450	13
		7451~8550	15
		8551~10000	18.5

Note: 1. Dimension of 1400 for the outdoor escalator with "#";
2.The L in reaction of supports formula is in meters，other figures with not indication are all in millimeters, enlargement A、B on page 24;
3. The dimension is +300 for figures with "※" when the step width is 1000, and the rise height H＞8600.
4.The size of W2 and A1 in the drawing is in accordance with EN115:1995; The size of W2´ and A1´ in the drawing is in accordance with EN115–1:2008+A1:2010.

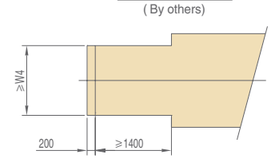
30° ESCALATOR SCHEME DRAWING

ESG–B(EN115:1995)/ESG–W700(EN115–1:2008+A1:2010)

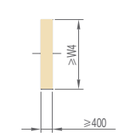
■ 10000<H≤14000 Number of horizontal steps: 4



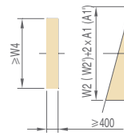
Openings of lower floor
(By others)



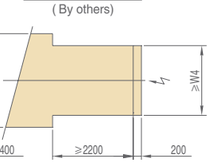
Middle support
(By others)



Middle support
(By others)



Openings of upper floor
(By others)



■ Dimensions

	Step 800	Step 1000
W1(Step Width)	800	1000
W2´(Handrail center width)	1072	1272
W2´ (Handrail outer edge width)	1148	1348
W3(Escalator width)	1490	1690
W4(Shaft Width)	1590	1790

	H1	H2
10000<H≤12500	0.577D–3318	
12500<H≤14000	0.577C–3318	1.155C–3318

■ Supporting Load

Rise Height		10000<H≤12500			12500<H≤14000			
Reaction of supports		R1	R2	R3	R1	R2	R3	R4
Step Width	800	2.14L+13.57	2.24L+3.35	5.64L+4.08	1.5L+13	1.5L+5	3.03L+2	3.03L+5
	1000	2.26L+17.65	2.67L+3.36	6.20L+5.44	1.53L+13	1.53L+5	3.07L+2	3.07L+5

■ Traction Machine Power Meter

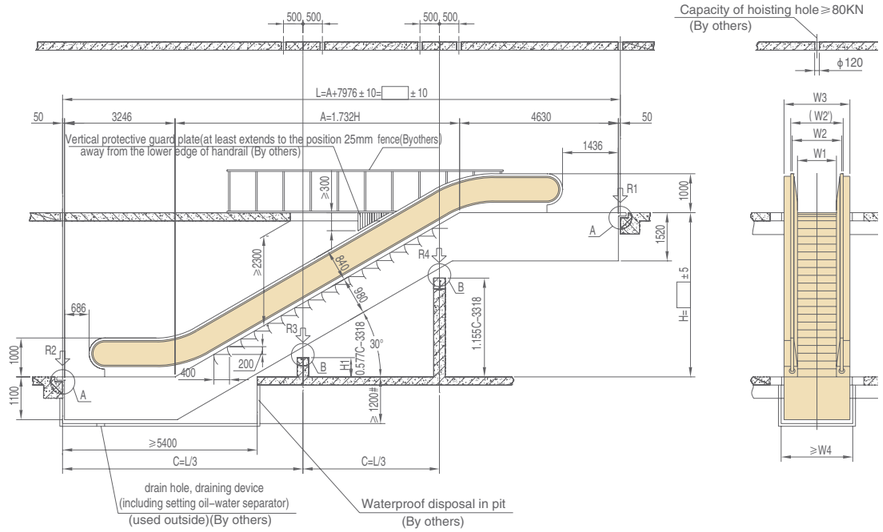
Rated speed m/s	Step Width mm	Rise Height mm	Power KW
0.65	1000	10001~10200	22
		10201~13800	30
		13801~14000	37
	800	10001~10550	18.5
		10551~12500	22
		12501~14000	30

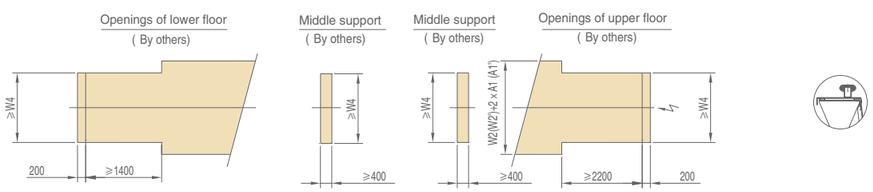
Note: 1. Dimension of 1400 for the outdoor escalator with "#";
2. The L in reaction of supports formula is in meters，other figures with not indication are all in millimeters, enlargement A、B on page 24;
3.The size of W2 and A1 in the drawing is in accordance with EN115:1995; The size of W2´ and A1´ in the drawing is in accordance with EN115–1:2008+A1:2010.

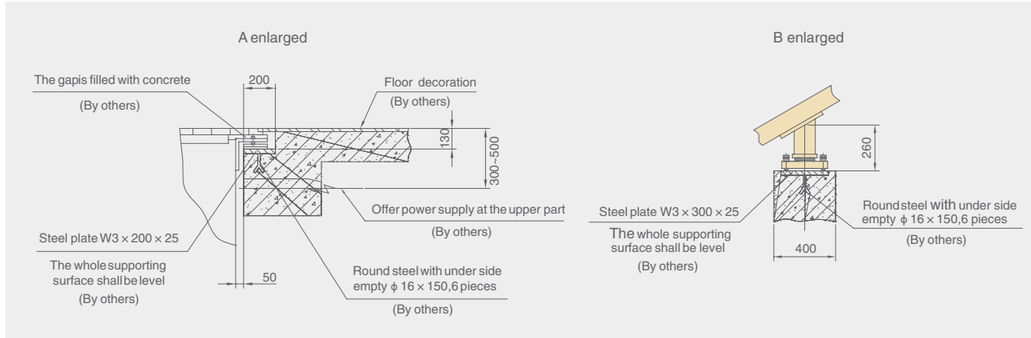
30° ESCALATOR SCHEME DRAWING

ESG–B(EN115:1995)/ESG–W700(EN115–1:2008+A1:2010)

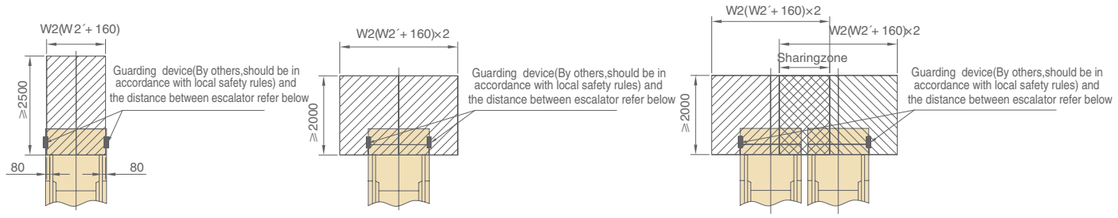
■ 14000<H≤18500 Number of horizontal steps: 4



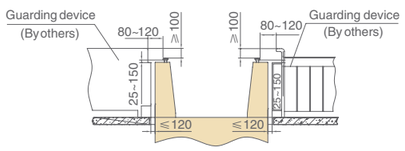




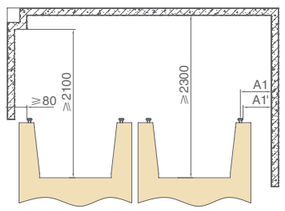
Boarding zone



Guarding device at access



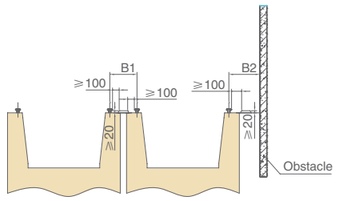
Distance between building structure and escalator



1.When the dis tance A1 between the center of handrail and any obstacleis no less than500mm,there is no need to set vertical protective guard palate (performing EN115:1995)

2.When the distance A1' between the exterior edge and any obstacleis no less than400mm,there is no need to set vertical protective guard plate.(performing EN115–1:2008+A1:2010)

Anti–slipping device



When B1 is more than 400mm or B2 is more than 300mm, install anti–slipping devices on handrail cover plate. The gap between the devices shall be no more than 1800mm and there is no sharp angle or edge.

■ Dimensions

	Step 800	Step 1000
W1(Step Width)	800	1000
W2 (Handrail center width)	1072	1272
W2´ (Handrail outer edge width)	1148	1348
W3(Escalator width)	1580	1780
W4(Shaft Width)	1680	1880

■ Supporting Load

Rise Height		14000<H≤18500			
Reaction of supports		R1	R2	R3	R4
Step Width	800	1.5L+13	1.5L+5	3.03L+2	3.03L+5
	1000	1.53L+13	1.53L+5	3.07L+2	3.07L+5

■ Traction Machine Power Meter

Rated speed m/s	Step Width mm	Rise Height mm	Power KW
0.65	1000	14001~17000	37
		17001~18500	40
	800	14001~17000	30
		17001~18500	37

Note: 1. Dimension of 1400 for the outdoor escalator with "#";
2. The L in reaction of supports formula is in meters，other figures with not indication are all in millimeters, enlargement A、B on page 24;
3.The size of W2 and A1 in the drawing is in accordance with EN115:1995; The size of W2´ and A1´ in the drawing is in accordance with EN115–1:2008+A1:2010.

■Cancel the pit when the escalator installed above the ground floor, Symmetrical construction of substructure and superstructure.

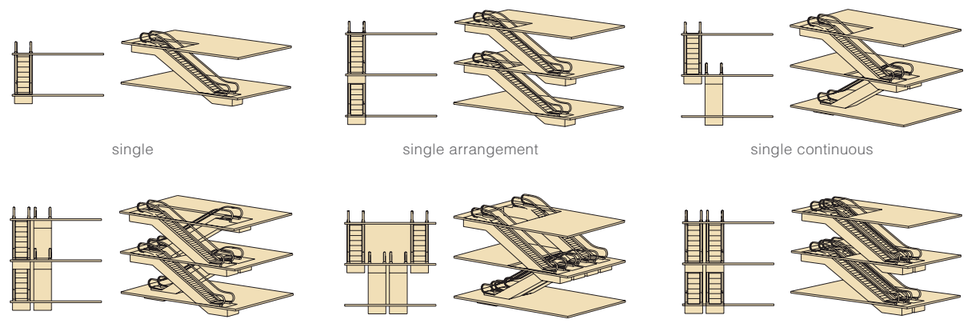
■Power supply: three–phase five–wire 380VAC ±7%, 50HZ; or according to regional requirements.

■Lighting Power Supply: Single phase 220VAC±7%, 50HZ.

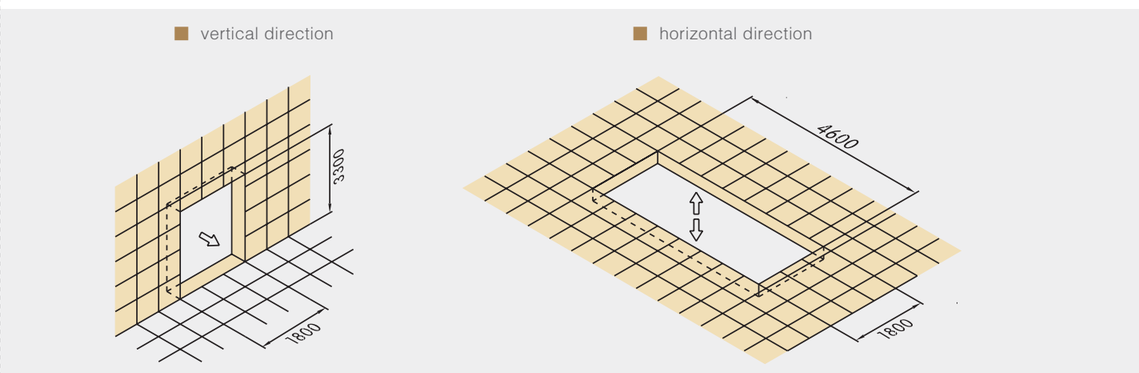
■User shall provide no more than 4 ohm ground resistance for the escalator.

■Users shall provide at least 50LX 15LX degree of illumination (ground monitoring value) at the indoor or outdoor escalator entrances.

Arrangement



The minimum size of the escalator entrance



Note: Figure dimensions all in millimeters

Other related projects responsible by the user and agents

- The holes which need to be drilled on the floor and the recovery works
- Water proofing work for the bottom layer of escalator pit
- Surrounding floor and ceiling decoration work after the completion of escalator installation
- Escalator safety in existing buildings, the protection around the escalator
- The wall around the guardrail and escalator
- Installation of temporary access and restoration works If the elevator is installed in existing buildings
- Power cable to the top of the escalator inside the power supply
- The outer decoration of escalator
- Installation of anti-fall nets if ladder wells are between the escalators

Shenyang Brilliant Elevator • Passenger Conveyor……

■Passenger conveyors are mainly used in supermarkets, shopping malls, subways, airports and other public places. BLT-CS series passenger conveyor is designed and manufactured in accordance with the European Committee for Standardization EN115-1:2008+A1:2010 and EN115: 1995 " escalators and moving walkways manufacture and installation safety standards" (in line with GB16899-1997).

■BLT-CS series passenger conveyor divides into two types of CSP-W100/CSP-W110 and CSP-W200/CSP-W210, the most contemporary high-quality products through devoting research and development, which meets the full range market demand. CSP-W100/CSP-W110 with novel appearance, is most popular model. CSP-W200/CSP-W210 adopting outer arc structure, and about 1.3m horizontal area at each end as transition in order for the passengers to enjoy more comfortable and safety. The model was designed mainly to focus on international market, fully compliance with European CE standards, and it stands as a strong competitor in the domestic market.

Product Characteristics……

PRODUCT CHARACTERISTIC

■CSP-W100/CSP-W110 series passenger conveyor with the characteristic of small space occupation and wide angle (10° /11° /12°), meeting customer demands. Stainless steel pedals, compact structure, strong and durable, non-slip pedal surface design, all contribute to a safe and comfortable passenger experience. A variety of handrail colors and simple handrail shape, harmonize the surrounding environment.

■CSP-W200/CSP-W210 series passenger conveyor adopting the small pitch aluminum pedals, the gap between the pedal and apron changes from horizontal direction to vertical direction, meaning the lower pedal goes under the apron, greatly reducing the possibility that the skirts or pants of the passenger get caught into the gap of the apron. With double arc structure, and large horizontal area at each end, passengers will enjoy the convenience and safety of BLT-CS.

MPK108 standard functions

1.Electromagnetic brake
Passenger conveyor stops running to ensure proper braking distance in order to ensure passenger safety.

2.Overload protection
When overloaded, the power will be cut, and the passenger conveyor will stop.

3.Power phase failure and wrong phase protection
The passenger conveyor will stop when power phase or wrong phase takes place.

4.Unintentional reversal of the direction of travel
When passenger conveyor changes its setting travel direction, the passenger conveyor will stop.

5.Over-speed governor
When over-speed, the passenger conveyor will stop.

6.Drive chain guard
When drive chain is excessively pulled through or broken, the passenger conveyor will stop.

7.Comb safety device
When object is stuck between the step and the comb plate, the passenger conveyor will stop.

8Handrail entry safety device
When object is stuck into the handrail, the passenger conveyor will stop.

9.Emergency stop switch
In case of emergency, push this button to stop the passenger conveyor.

10.Skirt panel safety switch
When object is stuck between the step and the skirt panel, the passenger conveyor will stop.

11.Step safety device
In abnormal conditions caused by deformation or other reasons, the passenger conveyor will stop.

12.Traction chain guard
When traction chain is excessively pulled through or broken, the passenger conveyor will stop.

13.Brake release monitoring device
Detect the brake when the master controller outputs brake on signal, passenger conveyor can not be started before brake is released.

14.step tread lighting
Lighting installed at the bottom of steps of upper & lower entrance/exit in order for passengers clearly understand the operation status of steps.

15. Pallet static eliminator
Static brush is used to eliminate the static on pallet.

16. Handrail static eliminator
Metal carrier roller is used to eliminate the accumulated static on handrail.

Optional Functions

Auxiliary brake

When drive chain broken, passenger conveyor reverse travel, or travels at the speed of 120%, the passenger conveyor will stop; it is a standard function for passenger conveyor with rise height over 6 meters or heavy-duty passenger conveyors.

Skirt panel safety brush

Skirt panel safety brush on the skirt panel prevents unintentional contact by the passengers, minimum risk.

■Handrail speed monitoring

When handrail is broken or running in abnormal speed, the passenger conveyor will stop.

■Step number monitoring

In case of losing step, ensure the passenger conveyor stop before it enters the comb plate.

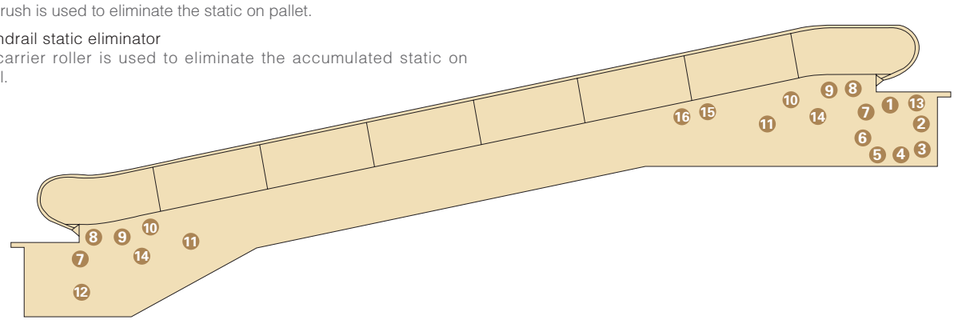
■Front cover open monitor

When the engine room cover is opened, the passenger conveyor stops, and only maintenance operation allowed.

■Braking distance monitoring device

When the braking distance is 20% greater than the maximum braking distance, reset the failure device to re-start.

Note: ■four items are standard function in EN115-1:2008+A1:2010

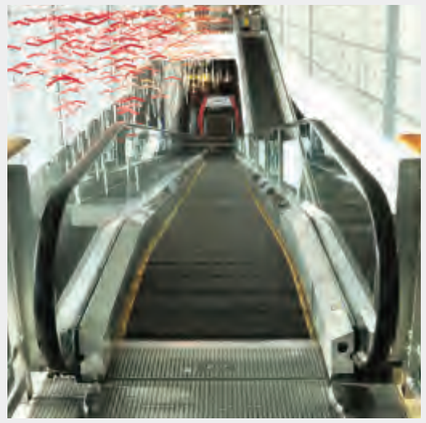


PRODUCT SPCIFICATION

ITSRELATIVE COMPONENTS

	CSP-W100 (EN115:1995)	CSP-W110(EN115 -1:2008+A1:2010)
Rise Height	3 ~ 6m	3 ~ 6m
Angle of inclination	10° /11° /12°	10° /11° /12°
Step Width	800/1000mm	800/1000mm
Rated Speed	0.5m/s	0.5m/s
Horizontal steps	2 at upper entrance/exit, none at lower entrance/exit (with the exception of 0)	2 at upper entrance/exit, none at lower entrance/exit (with the exception of 0)
Theoretical Capacity	6750/9000(Person/hour)	4800/6000(Person/hour)
Power	50HZ ACthree-phase380V Single phase220V or according to regional requirements	50HZ ACthree-phase380V Single phase220V or according to regional requirements
Traction Machine	Three-phase AC motor	Three-phase AC motor
Control Mode	MPK108	MPK108
Start Operation Mode	Star Delta Start;Optional VVVF photoelectric detection start	Star Delta Start;Optional VVVF photoelectric detection start
Handrail Guard Plate	10mm thick enhanced safety glass;Optional vertical hairline stainless steel	10mm thick enhanced safety glass;Optional vertical hairline stainless steel
Handrail Bracket	Hairline stainless steel, Optional Anodized aluminum alloy	Hairline stainless steel, Optional Anodized aluminum alloy
Handrail	Black synthetic rubber; Other colors available	Black synthetic rubber; Other colors available
Interior & Exterior Cover	Hairline stainless steel	Hairline stainless steel
Skirting brush	Hairline stainless steel;Optional black or green teflon-coated steel	Hairline stainless steel; Optional black or green teflon-coated steel ;Skirting brush
Handrail Lighting	Optional(anodized aluminum alloy handrail bracket)	Optional(anodized aluminum alloy handrail bracket)
Entrance & Exit Flooring	Black press stainless steel groove; Optional true color press stainless steel groove, Etched Stainless Steel	Black press stainless steel groove; Optional true color press stainless steel groove,Etched Stainless Steel
Comb Plate	aluminum	aluminum
Machine-room		Braking distance monitoring device
		Step loss detection
		Front cover open monitor
Handrail System		Handrail speed monitoring

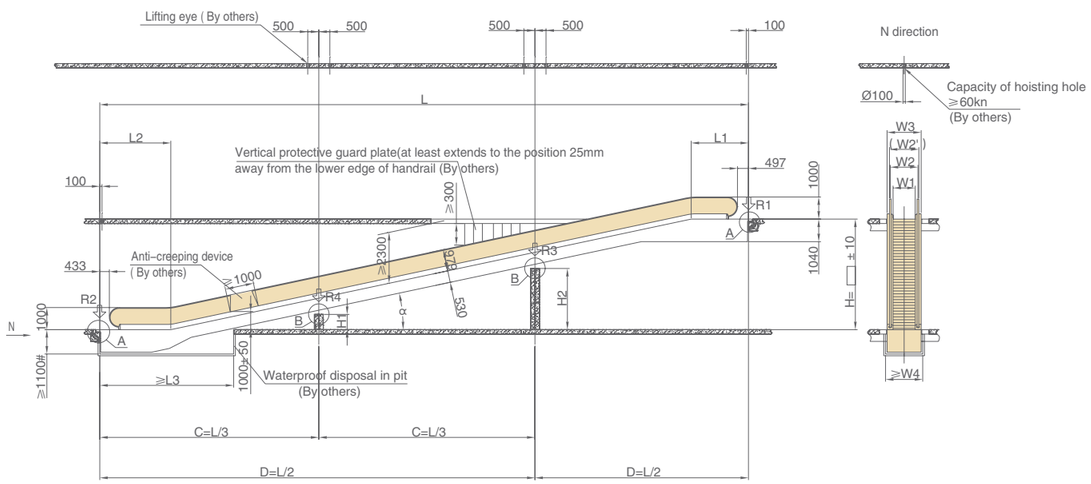
	CSP-W200 (EN115:1995)	CSP-W210(EN115-1:2008+A1:2010)	CSG-W500(EN115-1:2008+A1:2010)
Rise Height	3 ~ 6m	3 ~ 6m	0 ~ span60m
Angle of inclination	10° /11° /12°	10° /11° /12°	0 ~ 6°
Step Width	800/1000mm	800/1000mm	1000mm
Rated Speed	0.5m/s	0.5m/s	0.5m/s
Horizontal steps	10 at upper entrance, 10 at lower entrance	10 at upper entrance, 10 at lower entrance	
Theoretical Capacity	6750/9000(Person/hour)	4800/6000(Person/hour)	6000(Person/hour)
Power	50HZ ACthree-phase380V Single phase220V or according to regional requirements	50HZ ACthree-phase380V Single phase220V or according to regional requirements	50HZ ACthree-phase380V Single phase220V or according to regional requirements
Traction Machine	Three-phase AC motor	Three-phase AC motor	Three-phase AC motor
Control Mode	MPK108	MPK108	MPK108
Start Operation Mode	Star Delta Start;Optional VVVF photoelectric detection start	Star Delta Start;Optional VVVF photoelectric detection start	Star Delta Start;Optional VVVF photoelectric detection start
Handrail Guard Plate	10mm thick enhanced safety glass;Optional vertical hairline stainless steel	10mm thick enhanced safety glass;Optional vertical hairline stainless steel	10mm thick enhanced safety glass;Optional vertical hairline stainless steel
Handrail Bracket	Hairline stainless steel, Optional Anodized aluminum alloy	Hairline stainless steel, Optional Anodized aluminum alloy	Hairline stainless steel, Optional Anodized aluminum alloy
Handrail	Black synthetic rubber; Other colors available	Black synthetic rubber; Other colors available	Black synthetic rubber; Other colors available
Interior & Exterior Cover	Hairline stainless steel	Hairline stainless steel	Hairline stainless steel
Skirting brush	Hairline stainless steel;Optional black or green teflon-coated steel	Hairline stainless steel; Optional black or green teflon-coated steel ;Skirting brush	Hairline stainless steel; Optional black or green teflon-coated steel ;Skirting brush
Handrail Lighting	Optional(anodized aluminum alloy handrail bracket)	Optional(anodized aluminum alloy handrail bracket)	Optional(anodized aluminum alloy handrail bracket)
Entrance & Exit Flooring	Black press stainless steel groove; Optional true color press stainless steel groove,Etched Stainless Steel	Black press stainless steel groove; Optional true color press stainless steel groove,Etched Stainless Steel	Etched Stainless Steel,Optional Black press stainless steel groove; true color press stainless steel groove.
Comb Plate	aluminum	aluminum	aluminum
Machine-room		Braking distance monitoring device	Braking distance monitoring device
		Step loss detection	Step loss detection
		Front cover open monitor	Front cover open monitor
Handrail System		Handrail speed monitoring	Handrail speed monitoring



PASSENGER

CONVEYOR SCHEME DRAWING

CSP–W200(EN115:1995)/CSP–W210(EN115–1:2008+A1:2010)

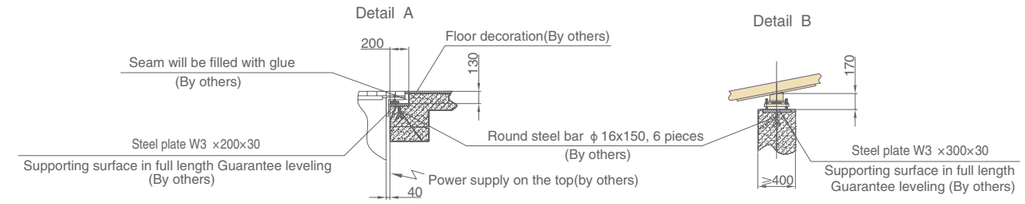


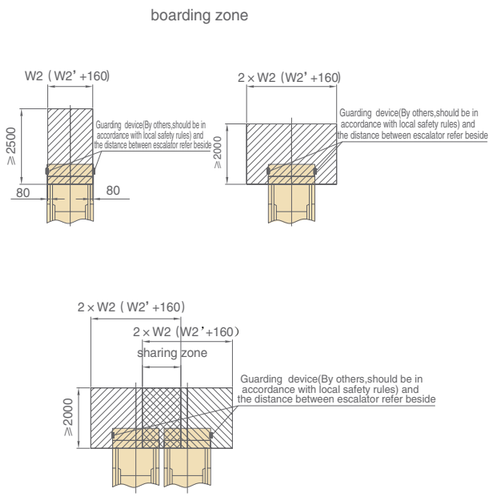
Dimensions

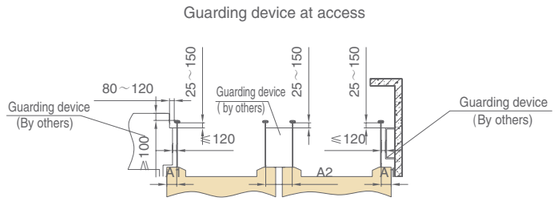
	800 Pallet	1000 Pallet
W1(Pallet Width)	800	1000
W2 (Handrail center width)	1050	1250
W2´(Handrail outer edge width)	1130	1330
W3(Passenger conveyor width)	1340	1540
W4(Pit width)	1440	1640
E(Support span)	16300	15000
F(Support span)	32600	30000

angle of inclination α	L1	L2	L3	L
11°	2556	3192	6250	5.1446×H+5748
12°	2588	3210	6050	4.7046×H+5798

Note: 1. One intermediate support is needed if L > E; two intermediate supports are needed if L > F.
2. The L in reaction of supports formula is in meters，other figures with not indication are all in millimeters.
3. Please contact us if the angles are different from above.
4. The size of W2 and B1 in the drawing is in accordance with EN115:1995; The size of W2´ and B1´ in the drawing is in accordance with EN115–1:2008+A1:2010.
5. For outdoor passenger conveyor, the size with "#" in the drawing is 1400.



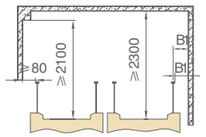




When the passenger conveyor is adjacent to the wall and width A1 of exterior cover plate is more than 125mm, install guarding devices at the upper and lower ends; When the passenger conveyor is arranged in parallel and width A2 of shared exterior cover plate is more than 125mm, install guarding device as well.

★Guarding device (By others) , Reference escalator (page 19)

Distance between the building structure and passenger conveyor



1. When the distance B1 between the center of handrail and any obstacle is no less than 500mm, there is no need to set vertical protective guard plate. (performing EN115:1995)
2.When the distance B1' between the exterior edge and any obstacle is no less than 400mm, there is no need to set vertical protective guard plate. (performing EN115–1:2008+A1:2010)

Height of Intermediate Support

angle of inclination α	One intermediate support	Two intermediate support
11°	H1=0.1944D–1351	H1=0.1944C–1351 H2=0.3888C–1351
12°	H1=0.2126D–1415	H1=0.2126C–1415 H2=0.4251C–1415

Reaction of supports (KN)

Step Width W1	Reaction of supports	One intermediate support	Two intermediate support
1000	R1	R1=1.3L+36	R1=0.66L+33.6
	R2	R2=1.5L+23.5	R2=0.69L+25.5
	R3	R3=5.8L+288/L	R3=3.4L+3.2
	R4	———	R4=3.4L+3.2

11° Traction Machine Power Meter (KW)

Step Width W1	Rise Height H	power
1000	2000≤H≤2600	5.5
	2600＜H≤3800	8
	3800＜H≤5100	11
	5100＜H≤6000	13
800	2000≤H≤3100	5.5
	3100＜H≤4500	8
	4500＜H≤6000	11

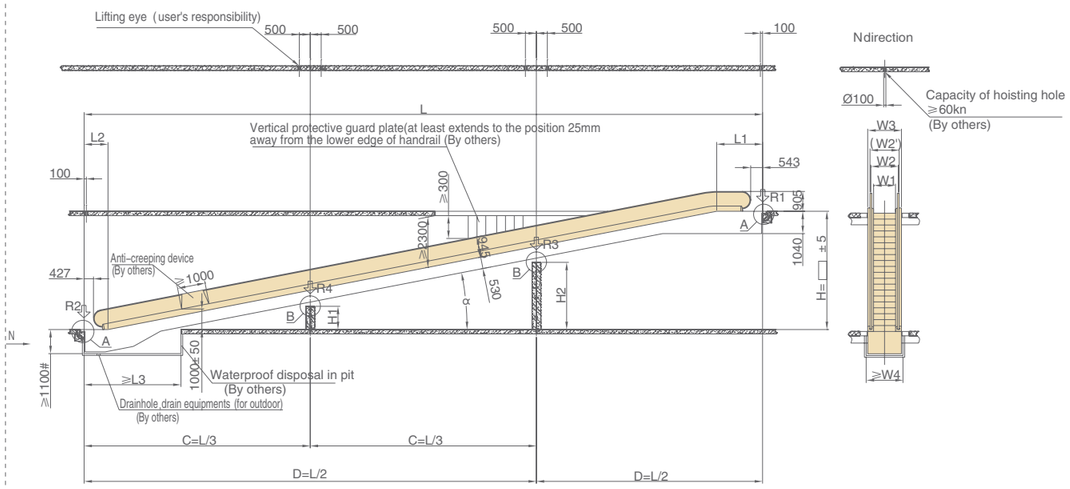
12° Traction Machine Power Meter (KW)

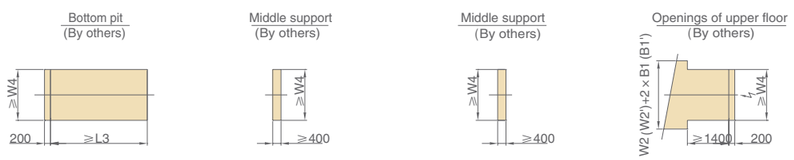
Step Width W1	Rise Height H	power
1000	2000≤H≤2700	5.5
	2700＜H≤3900	8
	3900＜H≤5300	11
	5300＜H≤6000	13
800	2000≤H≤3200	5.5
	3200＜H≤4600	8
	4600＜H≤6000	11

PASSENGER

CONVEYOR SCHEME DRAWING

CSP-W100(EN115:1995)/CSP-W110(EN115-1:2008+A1:2010)



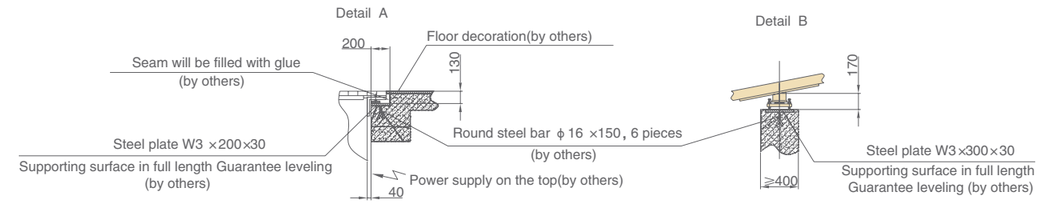


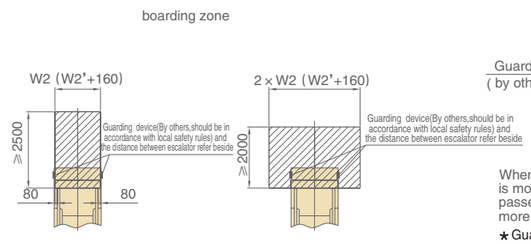
Dimensions

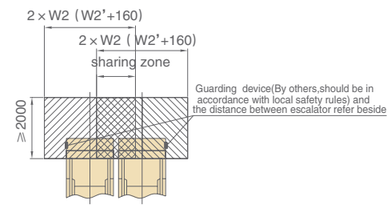
	800 Pallet	1000 Pallet
W1(Pallet width)	800	1000
W2 (Handrail center width)	1050	1250
W2′ (Handrail outer edge width)	1130	1330
W3(Passenger conveyor width)	1340	1540
W4(Pit width)	1440	1640
E (Support span)	16300	15000
F (Support span)	32600	30000

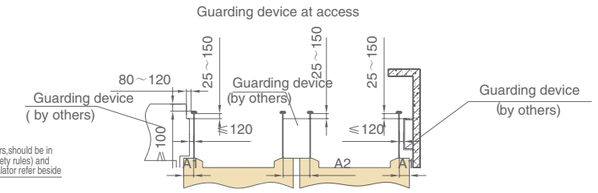
angle of inclination α	L1	L2	L3	L
10°	2016	1122	4750	5.6713×H+3138
11°	2093	1090	4420	5.1446×H+3183
12°	2165	1080	4120	4.7046×H+3245

Note: 1. One intermediate support is needed if L>E; two intermediate supports are needed if L>F.
2. The L in reaction of supports formula is in meters, other figures with not indication are all in millimeters.
3. Please contact us if the angles are different from above.
4.The size of W2 and B1 in the drawing is in accordance with EN115:1995; The size of W2′ and B1′ in the drawing is in accordance with EN115-1:2008+A1:2010.
5. For outdoor passenger conveyor, the size with "#" in the drawing is 1400.





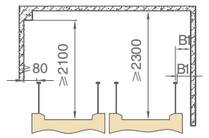




When the passenger conveyor is adjacent to the wall and width A1 of exterior cover plate is more than 125mm, install guarding devices at the upper and lower ends; When the passenger conveyor is arranged in parallel and width A2 of shared exterior cover plate is more than 125mm, install guarding device as well.

★Guarding device (By others) , Reference escalator (page 19)

Distance between the building structure and passenger conveyor



1. When the distance B1 between the center of handrail and any obstacle is no less than 500mm, there is no need to set vertical protective guard plate. (performing EN115:1995)
2.When the distance B1' between the exterior edge and any obstacle is no less than 400mm, there is no need to set vertical protective guard plate. (performing EN115-1:2008+A1:2010)

Height of Intermediate Support

angle of inclination α	One intermediate support	Two intermediate support
10°	H1=0.1763D-926	H1=0.1763C-926 H2=0.3527C-926
11°	H1=0.1944D-942	H1=0.1944C-942 H2=0.3888C-942
12°	H1=0.2126D-962	H1=0.2126C-962 H2=0.4251C-962

Reaction of supports (KN)

Step Width W1	Reaction of supports	One intermediate support	Two intermediate support
1000	R1	R1=1.3L+36	R1=0.66L+33.6
	R2	R2=1.5L+23.5	R2=0.69L+25.5
	R3	R3=5.8L+288/L	R3=3.4L+3.2
	R4		R4=3.4L+3.2

10° Traction Machine Power Meter (KW)

Step Width W1	Rise Height H	power
1000	2000≤H≤2500	5.5
	2500<H≤3600	8
	3600<H≤5000	11
	5000<H≤6000	13
800	2000≤H≤3000	5.5
	3000<H≤4400	8
	4400<H≤6000	11

11° Traction Machine Power Meter (KW)

Step Width W1	Rise Height H	power
1000	2000≤H≤2600	5.5
	2600<H≤3800	8
	3800<H≤5100	11
	5100<H≤6000	13
800	2000≤H≤3100	5.5
	3100<H≤4500	8
	4500<H≤6000	11

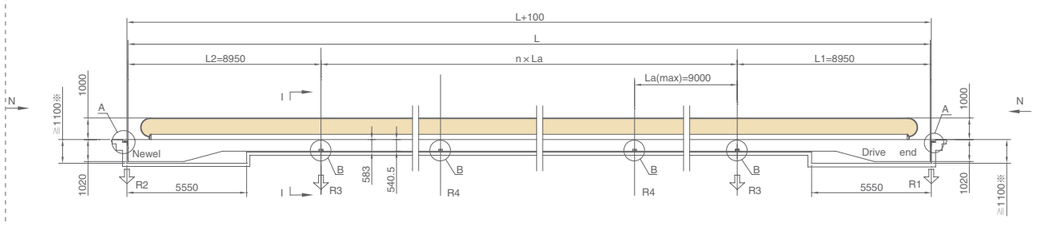
12° Traction Machine Power Meter (KW)

Step Width W1	Rise Height H	power
1000	2000≤H≤2700	5.5
	2700<H≤3900	8
	3900<H≤5300	11
	5300<H≤6000	13
800	2000≤H≤3200	5.5
	3200<H≤4600	8
	4600<H≤6000	11

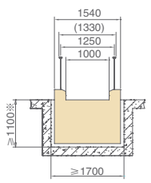
PASSENGER

CONVEYOR SCHEME DRAWING

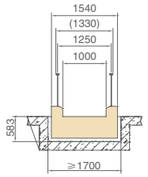
CSG–W500(EN115–1:2008+A1:2010)



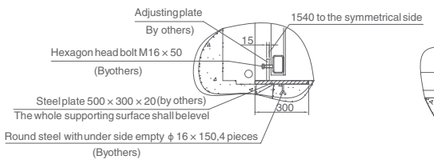
Ndirection



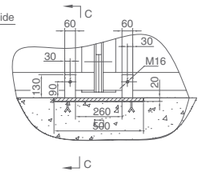
I–I



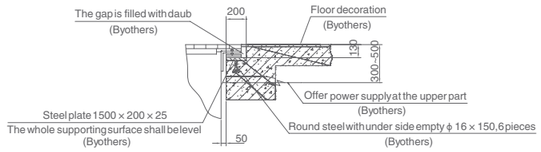
C–C view



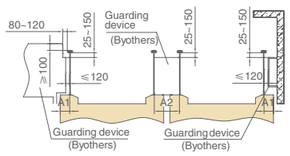
B enlarged



A enlarged

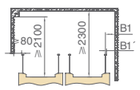


Guarding device at access



When the passenger conveyor is adjacent to the wall and width A1 of exterior cover plate is more than 125mm, install guarding devices at the upper and lower ends; When the passenger conveyor is arranged in parallel and width A2 of shared exterior cover plate is more than 125mm, install guarding device as well.

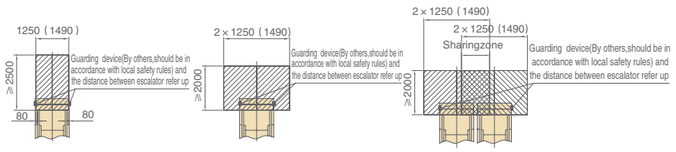
Distance between building structure and passenger conveyor



1. When the distance B1 between the center of handrail and any obstacle is no less than 500mm, there is no need to set vertical protective guard plate. (performing EN115:1995)

2. When the distance B1' between the exterior edge and any obstacle is no less than 400mm, there is no need to set vertical protective guard plate. (performing EN115–1:2008+A1:2010)

Boarding zone



Power of traction machine

	Length of conveyor L(mm)	Power P(kw)
Pallet width 1000mm	27000≤L≤58000	5.5
	58000 < L≤60000	8

Support reaction

R1 (N)	R2 (N)	R3 (N)	R4 (N)
54000	46000	83000	79000

Note:

1. For passenger conveyors used outdoor, the dimension of the ones marked with ※ is 1400;
2. The unit of the data in sheet is millimeter except the specifically marked ones;
3. Please contact with our company if the angle is different from the above;
4. The dimensions of B1 and 1250 in picture performs standard EN115:1995; the dimensions of B1', 1330 and 1490 performs standard EN115–1:2008+A1:2010;
5. Our company reserves the right of modifying the data in sheet. Please further confirm when signing the contract.

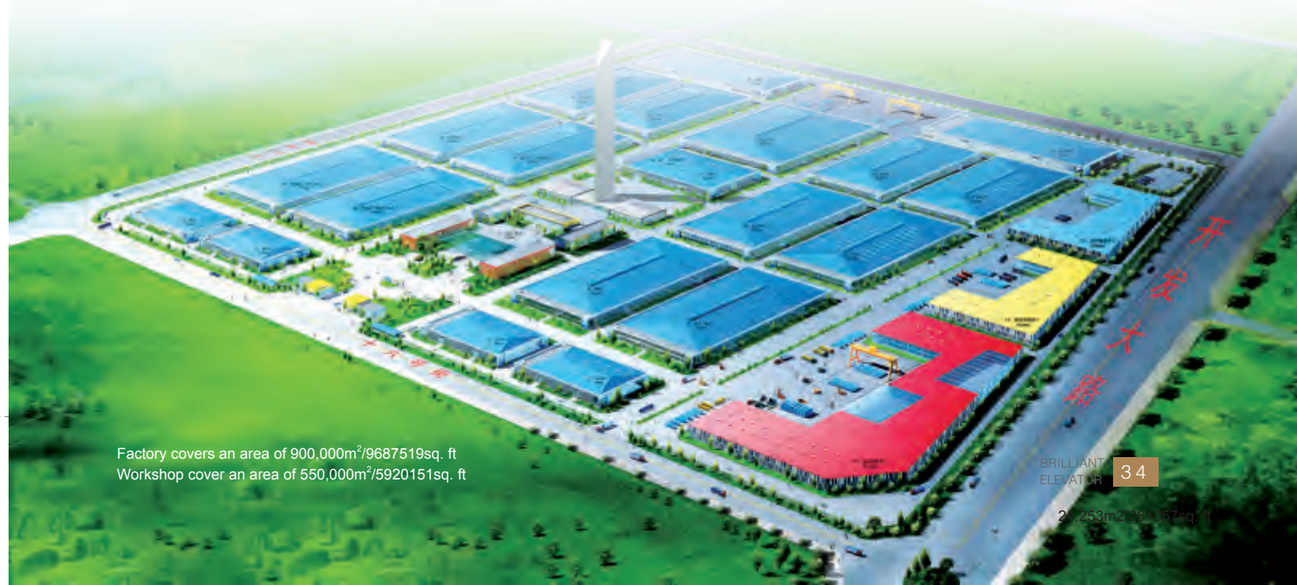
BLT MANUFACTURE BASE

Office Building and Test Tower

Elevator Workshop 48,506 m^2/522114sq. ft

Salvagnini's(S4+P4) Complete and Flexible Sheet Metal Product Lines, Italy

Escalator Workshop 24,253m^2/261057sq. ft



Factory covers an area of 900,000m^2/9687519sq. ft
Workshop cover an area of 550,000m^2/5920151sq. ft