TOSHIBA

Toshiba Standard Type
TG Series

ESCALATOR

Safety Cautions

- Observance of relevant laws / regulations are required.
- Read the entire “Instruction Manual” carefully before use, for important information about safety, handling and operation.

TOSHIBA

Toshiba Elevator and Building Systems Corporation

72-34, Horikawa-cho, Saiwai-ku, Kawasaki
212-8585, Japan

Please enter the contents from the “Inquiry Input Form” in website.
https://www.toshiba-elevator.co.jp/elv/infoeng/

GK-F224(0)-2403-2000-2403(TD)

An Original Product Made In Japan

Toshiba will provide escalators for overseas markets as original models that maintain the high quality, safety, and energy-saving performance supplied to Japan. Toshiba is working on research and developments to ensure safe and secure use of escalators, such as our proprietary "Soft Front Edge Step."
We will continue to be your trusted brand by providing products and services that satisfy our customers.

Improved Safety, Security, and Comfort

Energy Saving

Sanitation and Cleanliness Measures

Toshiba Group and the SDGs

The main plank of the "Toshiba Group Basic Commitment" is "Committed to people, Committed to the Future.". This expresses Toshiba Elevator and Building Systems is unwavering determination to contribute to the development of society through its business, and is consistent with the direction of the SDGs, which aim to realize a sustainable society. Acting in good faith in our daily activities, and with a passion to make the world a better place, looking to the future beyond the next generation, and to create that future with our stakeholders-inspired by these ideas, Toshiba Elevator and Building Systems has and will continue to bring together the creativity and technological capabilities it has cultivated to confront social issues that are becoming more complicated and serious, and to turn on the promise of a new day.

Note : Toshiba Elevator and Building Systems is working on business activities by extracting 11 items that can be promoted from all 17 types of SDGs goals.

Environmental Initiatives

Energy Saving

- Adopting inverter control

The adoption of inverter control has further improved energy-saving performance.

Resource Saving

- Reducing steel trusses

The amount of steel can be reduced without increasing the truss dimensions even when an inverter is installed. (When installed indoors)

Reducing Hazardous Materials

- Lead-free

The adoption of lead-free control circuit boards reduces the amount of lead used.

- Adopting LED lightings

The adoption of LED lightings allows for "mercury-free" lighting systems.

Additional Environmental Initiatives

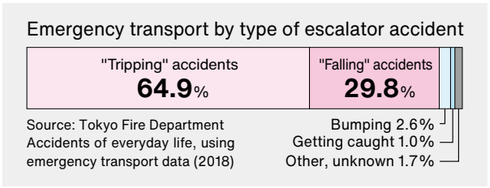
We are working on manufacturing products that are compliant with the RoHS Directive.

"RoHS" stands for "Restriction of the use of certain hazardous substances in electrical and electronic equipment." (Escalators are not subject to the RoHS Directive)

Initiatives for Preventing Injuries and Accidents

"Soft Front Edge Steps" for Reducing Risk of Injury in Case of Falling STANDARD

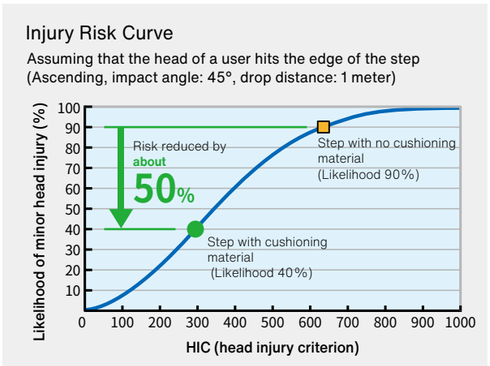
Most emergency accidents related to escalators are caused by "tripping" or "falling." Toshiba developed Soft Front Edge Steps that reduce the risk of injury in the case of falling.



The risk of minor head injury in the case of falling is reduced by about 50% compared with steps with no cushioning material. (Based on research by Toshiba)

Minor head injury: Head injuries with no impairment of consciousness, dental/nasal fractures, and facial injuries

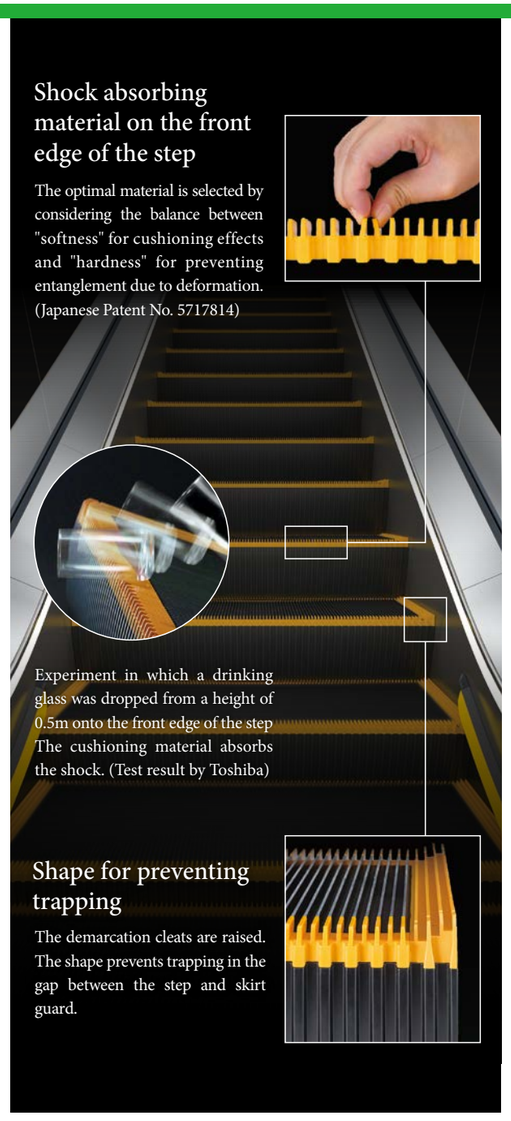
The head injury criterion (HIC)*1 was measured by Toshiba's proprietary method assuming that the head of a user hits the edge of the step. The result is shown by using an injury risk curve*2.

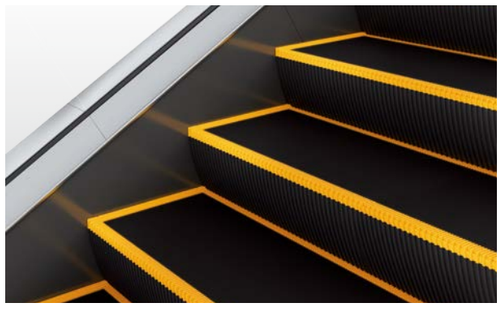


*1 HIC (Head Injury Criterion): A measure of the likelihood of head injury calculated from impact acceleration. It can be calculated based on drop testing with a dummy head. It is mainly used in the automobile industry.
*2 Injury risk curve: A curve that associates HIC and the likelihood of injury.
(Note) Cushioning effects may vary depending on temperature, impact angle, drop distance, and aging.

"Smart Deck Design" Using No Outwardly Protruding Screws STANDARD

The advanced design uses no exposed screws for securing the section between the deck board and the skirt guard as a measure for preventing clothing from getting caught and other similar problems. The skirt guard is coated with fluorine resin to reduce the coefficient of friction as a measure to prevent entanglement.





Skirt Brush Deflector STANDARD

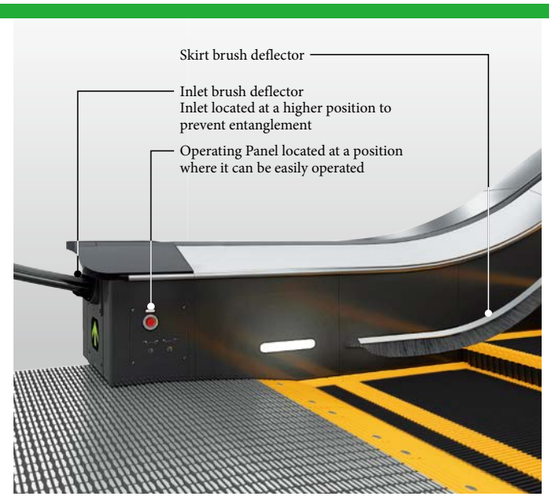
To prevent accidents where objects get caught or entangled between the steps and skirt guard panel, the "skirt brush deflector" can be installed to cover the entire skirt guard panel. To prevent accidents where objects get caught or entangled between the steps and skirt guard panel, the "skirt brush deflector" can be installed to cover the entire skirt guard panel.

Inlet Brush Deflector STANDARD

To prevent accidents where objects become entangled in the handrail inlet, the inlet is located at a higher position, and a brush-type deflector is installed on the handrail inlet.

Operating Panel STANDARD

A large, colored emergency stop button and key switches are placed next to the front skirt where they can be easily operated.



Improved Comfort and Convenience

Kindly Navigating Passengers Operation Monitor ESNAVI OPTIONAL

The operation monitor ESNAVI displays the moving direction of the escalator, etc. During energy saving operation or low-speed/stop standby, it displays "ECO" alternating with the moving direction to emphasize its energy saving operation. When a safety device is activated, it indicates the activated safety device.

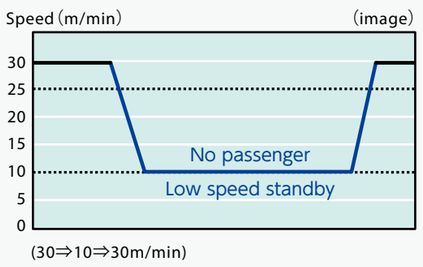
Energy Saving

Contribute to energy and CO_2 reduction

31% Energy reduction

Low-speed standby operation OPTIONAL

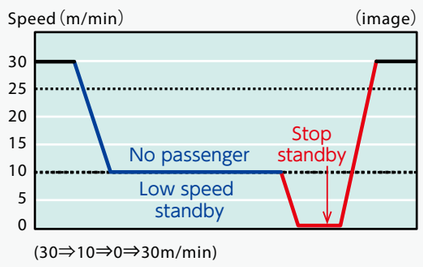
If the passenger is not using the escalator, it slows down at the speed of 10m/min, and when the sensor detects the passenger, it accelerates to the normal operating speed of 30m/min.



36% Energy reduction

Low-speed / stop standby operation OPTIONAL

If there is no passenger, low-speed standby operation is activated and after a certain time of period, the escalator stops completely. When the sensor senses the passenger, it accelerates to normal operation speed again at the speed of 30m/min.



Method of comparing power consumption

Comparison between escalator without inverter drive control and the escalator with the following function (standard escalator S1000 type, 30deg, floor height of 4.3m (no lightings), driving time of 12hours per one day.)

- Low-speed standby operation — Low-speed standby : six hours
- Low-speed / stop standby operation — Low-speed standby : three hours Stop standby : three hours
- Stop standby operation — Stop standby : six hours

High Efficiency Operation Function STANDARD

It maintains the high efficiency state of the motor by regulating the supply voltage to the motor depending on the load status.

Adopting LED lightings

Skirt guard lighting OPTIONAL

The line lighting built into the skirt guard gently illuminates the footing, adding accents of illumination to the escalator.

Comb lighting OPTIONAL

It illuminates the landing to alert passengers.

Step lighting OPTIONAL

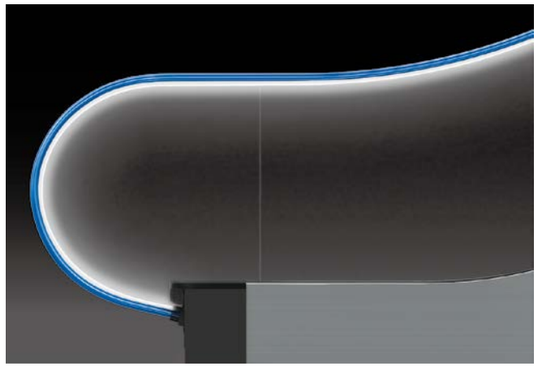
It illuminates the border between steps to make it visible and support passengers in riding on the escalator.

New: LED Balustrade lighting OPTIONAL

The latest LED slimline lighting is adopted for balustrade lighting. The LED slimline lighting, which extends from the inlet in a circular pattern, accentuates the design of the escalator.

- The LED lighting has daylight color（White color）. Optional warm color（Orange like color）is also available.

Conventional balustrade lighting (image)



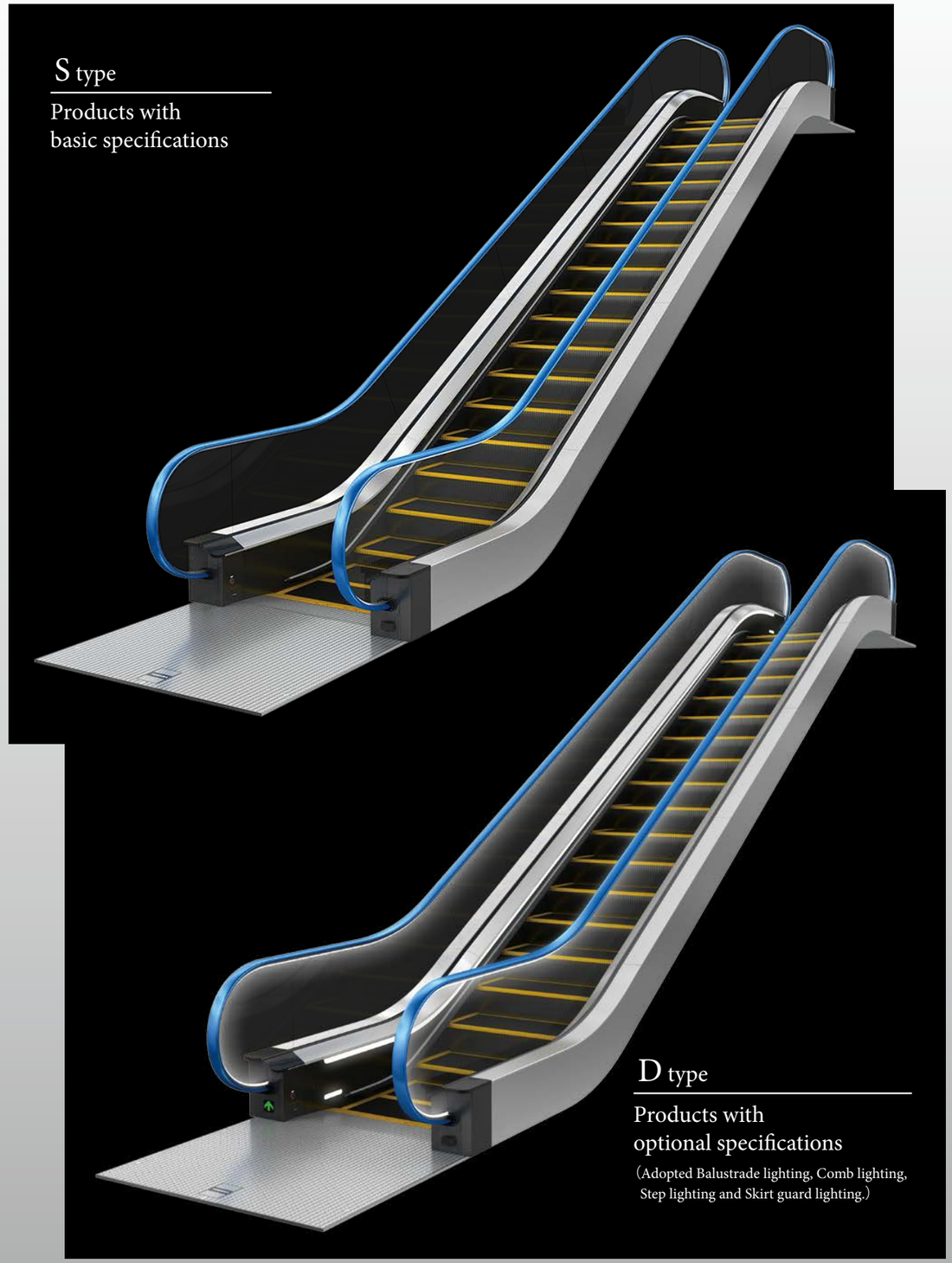
New balustrade lighting with LED slimline lighting (image)

Preventing the Further Spread of Infectious Diseases

Handrail Sterilization Device OPTIONAL

It sterilizes the handrail by directly irradiating it with ultraviolet light. The sterilization device is built into the main body of the escalator, eliminating the concerns about getting a hand or finger caught in the device. In addition, stickers such as "UV STERILIZED" and "HOLD THE HANDRAIL" are included, which will help improve safety by encouraging passengers to use the handrail.

Product Image



Specifications

Contents of notation (applicable regulations)
「EN115-1」=EN115-1:2017
「COP」=COP2021 (Hong Kong)
「SS626」=SS626:2017

General applications

Type		Balustrade type	Step width (mm)	Angle of Inclination	Application floor height(mm)	Rated speed (m/min)
TG-30	S1000	S type D type	1000	30 deg.	3000 to 14500 (Note 1)	30, 39
	S800		800			
	S600		600			
TG-35	S1000		1000	35 deg.	3000 to 6000	30
	S800		800			
	S600		600			

Note 1: For SS626 and S1000, nominal speed 39 m/min with floor height over 12000 mm is not applicable.
(Applicable IE3 motor is not developed)

Other main specifications

Item		Standard specification	Optional specification	Remarks
Environment		Indoor	Outdoor	
Power supply	For main power	Three phase AC.380V-50Hz	Three phase AC.380V-60Hz AC.400V-50Hz AC.415V-50Hz AC.440V-50Hz	
	For lighting	Single phase AC.220V-50Hz	Single phase AC.220V-60Hz AC.230V-50Hz AC.240V-50Hz	(Note 2)

Note 2: Prepare the step-down transformer when supplying lighting and/or inspection source from power source,

Item		Standard specification	Optional specification	Remarks
Usage		Private (Non-public service)		
Running direction		Up-down reversible		
Number of flat steps	30m/min-30 deg.	H≦6000 mm: 2(Two) steps H≧6001 mm: 3(Three) steps	H≦6000 mm: 3(Three) steps	
	30m/min-35 deg.	2(Two) steps	3(Three) steps	
	39m/min-30 deg.	3(Three) steps		
Automatic lubricator		Provided		
Speech synthesizer		Not provided	Provided	(Note 3)
Handrail Sterilizer		Not provided	Provided	
Driving system		Full time inverter operation	—	
Control system		Circuit board	—	
Control type		Single speed	Automatic operation with low speed by stand-by mode (without sensor pole)	
			Automatic operation with low speed and stop by stand-by mode (without sensor pole)	(Note 4)
			Automatic operation with low speed and stop by stand-by mode (without sensor pole) and changing nominal speed	(Note 4)
			Changing nominal speed *(30 - 25 - 20 m/min) *(39 - 30 – 20 m/min)	(Note 5)
ESNAVI			Upper: left side(1set) Lower: right side(1set) (View from lower level)	
Supervisory panel interface			Provided	Provided signal for -REST -FAULT -UP/DN (Note 6)
Earthquake device interface (Seismic detector/sensor)			Provided	Contact capacity: DC24V, 1A (Note 7)

Note 3: Audio device to be provided by others. Detailed information for interface design to be provided at the purchase order.
Note 4: Not applicable in Hong Kong.
Note 5: For angle of Inclination 35 degrees, nominal speed 39 - 30 - 20 m/min is not applicable.
Note 6: Non-voltage A contact is provided for connection to the supervisory panel. (Supervisory panel and wiring to be provided by others.)
Note 7: Interface for the connection to the earthquake device is provided.
(Earthquake device and Non-voltage B contact from the earthquake device to be provided by others).

Specifications

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「EN115-1」=EN115-1:2017
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「SS626」=SS626:2017

List of Specifications

○: Standard △: Optional —: Not applicable

Item				Application	
				Indoor	Outdoor
Handrail	Material		Urethane rubber	○	○
	Color		Black	○	○
			Red	△	—
			Gray		
			Brown		
			Blue		
			Charcoal		
			Beige		
			Green		
Interior panel (Note 1)	Clear tempered glass (t10)	Heat soaked	Right angle layout	○	○
			Vertical layout	△	△
		Heat soaked & shatterproof film	Right angle layout	△	△
			Vertical layout	△	△
	Clear tempered glass (t6+t4)(Laminated)	Heat soaked	Right angle layout	△	△
			Vertical layout	△	△
	Stainless steel hair-line finish (t1.5)		SUS430	○	—
			SUS304	△	○
			SUS316	△	△
Rail for handrail	Stainless steel hair-line finish (t1.5)		SUS430	○	—
			SUS304	△	○
			SUS316	△	△
Skirt guard panel	Sheet steel with fluororesin coating (Black)			○	—
	Stainless steel hair-line finish (t3)		SUS430	△	—
			SUS304	△	○
			SUS316	△	△
Skirt brush deflector	Provided			○	○
	Not provided			—	—
Balustrade height(middle part)	900 mm (Angle of Inclination: 30 deg.)			○	○
	952 mm (Angle of Inclination: 35 deg.)				
	1000 mm (Angle of Inclination: 30 / 35 deg.)			—	—
Inlet brush deflector	Provided			○	○

Note 1: Right angle layout -> Right-angled to deck board. Vertical layout -> Right-angled to building floor.

Lighting (LED lamp) (Note 2)

Item			Application		Remarks
			S type	D type	
Balustrade lighting	Not provided		○	—	
	Provided	Daylight color (White color)	—	○	
		Warm color (Orange-like color)	—	△	
Comb lighting	Not provided		○		
	Provided	Daylight color (White color)	△		
		Warm color (Orange-like color)	△		
Step lighting	Not provided		○		
	Provided	Green color	△		
Skirt guard lighting (Note 3)	Not provided		○		
	Provided	Daylight color (White color)	△		
		Warm color (Orange-like color)	△		
Landing lighting			—		

Note 2: LED lamps have the property that variation in color hue.
Note 3: It is possible to use in combination with Skirt guard lighting and Skirt brush.

Landing

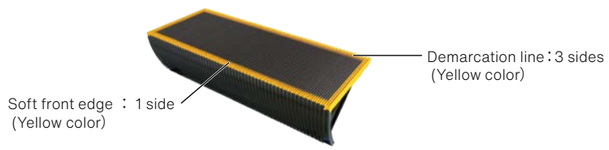
○: Standard △: Optional —: Not applicable

Item			Application		Remarks
			Indoor	Outdoor	
Landing plate	Stainless steel (SUS430 t1.5) pressed groove		○	—	
	Stainless steel (SUS304 t1.5) pressed groove		△	○	
	Stainless steel (SUS316 t1.5) pressed groove		△	△	
	Stainless steel (SUS430 t1.5) etched groove		△	—	
	Stainless steel (SUS304 t1.5) etched groove		△	△	
	Stainless steel (SUS316 t1.5) etched groove		△	△	
Color of Groove for Landing plate	Pressed groove	Without color	—	—	
		Black painting	○	○	
	Etched groove	Without color	△	△	
		Black painting	△	△	
Name plate on landing plate	With "TOSHIBA" mark only		○		
	With "TOSHIBA" mark and Floor No.		△		
	With Floor No. only		△		
	No notation		△		
Comb	Reinforced resin(color: yellow)		○		
	Aluminum		△		
Front skirting	Sheet steel (color: black)		○		
Operating panel	Steel plate (color: black)		○		

Step

Item		Application		Remarks
		Indoor	Outdoor	
Step material	Aluminum alloy diecast	○		
Step color	Step groove: Black	○		
Demarcation line	Four sides of step (color: yellow) Front edge side is shock absorbing type.	○		(Note 4)

Note 4: Detail of demarcation line of step is as below the image view.

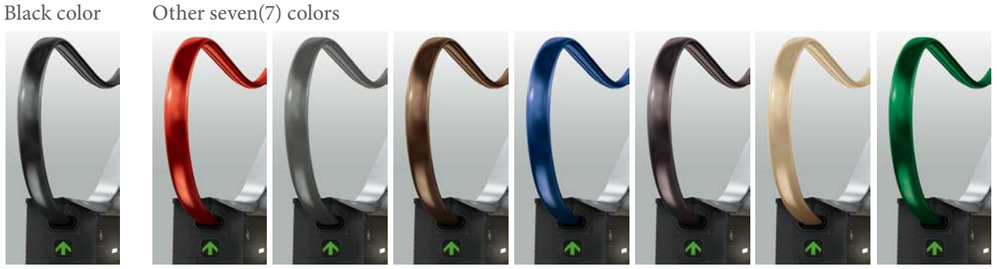


Handrail

Select the most suitable color from eight(8) color variations to match the building use and design concepts.

STANDARD
Black color

OPTIONAL
Other seven(7) colors



Black Red Gray Brown Blue Charcoal Beige Green

Layout plan 30 deg.

Contents of notation (applicable regulations)
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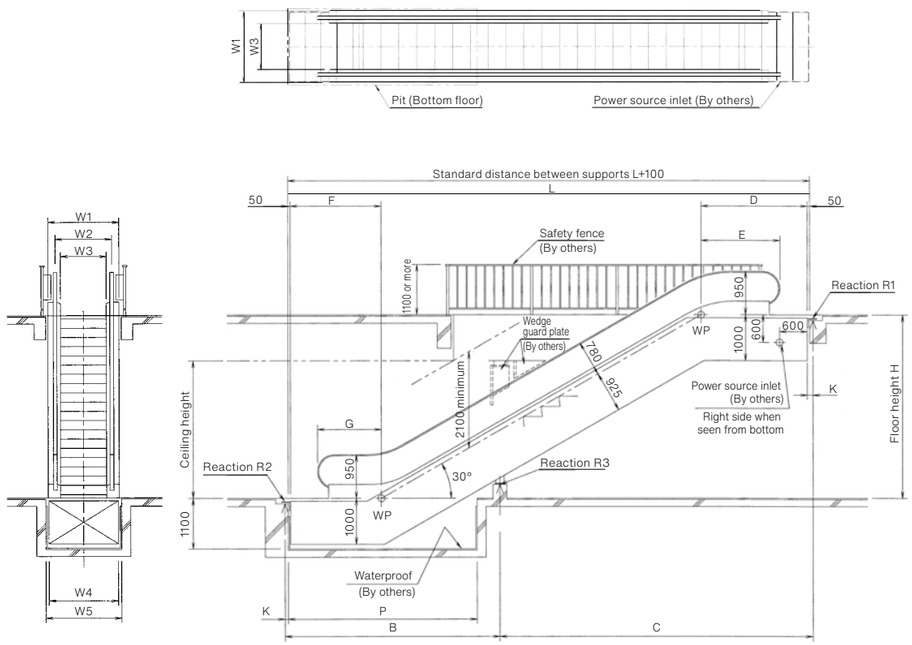
Unit mm



Model type : S800

Model type			S800								S800			
Speed			30m/min								39m/min			
Angle			30 deg.								30 deg.			
Floor height H (mm)			3000 to 6000				6001 to 11500		11501 to 14500		3000 to 8000		8001 to 14500	
Truss height (mm)			3000 to 6000				6010 to 11500		11510 to 14500		3000 to 8000		8010 to 14500	
Type			Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
Number of Flat step			2		3						3			
Upper truss length D (mm)			2830		3230		3430		4050		3555		4050	
Upper balustrade length E (mm)			1830		2230		2230		2355		2355			
Lower truss length F (mm)			2290	2360	2690	2760	2690	2760	2690	2760	2690	2760	2690	2760
Lower balustrade length G (mm)			1590		1990						1990			
Upper truss depth J (mm)	EN115-1 COP	Without Auxiliary brake	1100				1200		1270		1200		1270	
		With Auxiliary brake	1000											
	SS626	Without Auxiliary brake	1100				1300 *Note3		1270		1300 *Note3		1270	
		With Auxiliary brake	1000											
Total plan length of truss L (mm)			√3 H+5120	√3 H+5190	√3 H+5920	√3 H+5990	√3 H+6120	√3 H+6190	√3 H+6740	√3 H+6810	√3 H+6245	√3 H+6315	√3 H+6740	√3 H+6810
Pit length P (mm)			4400	4470	4800	4870	4800	4870	4800	4870	4800	4870	4800	4870
Lower pit depth Q (mm)			1100	1300	1100	1300	1100	1300	1100	1300	1100	1300	1100	1300
Escalator width W1 (mm)			1350						1462		1350		1462	
Handrail between both centers W2 (mm)			1036								1036			
Nominal step width W3 (mm)			802.5								802.5			
Truss width W4 (mm)			1310						1422		1310		1422	
Pit width W5 (mm)			1460						1572		1460		1572	

Note 3: For SS626, IE3 motor shall be applied, consequently the truss depth is expanded.

Model type : S1000

Model type			S1000								S1000					
Speed			30m/min								39m/min					
Angle			30 deg.								30 deg.					
Floor height H (mm)			3000 to 6000				6001 to 9500		9501 to 14500		3000 to 6000		6001 to 12000		12001 to 14500	
Truss height (mm)			3000 to 6000				6010 to 9500		9510 to 14500		3000 to 6000		6010 to 12000		12010 to 14500	
Type			Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
Number of Flat step			2		3						3					
Upper truss length D (mm)			2530		2930		3130		3750		3255		3750		3750	
Upper balustrade length E (mm)			1830		2230				2355		2355					
Lower truss length F (mm)			2290	2360	2690	2760	2690	2760	2690	2760	2690	2760	2690	2760	2690	2760
Lower balustrade length G (mm)			1590		1990						1990					
Upper truss depth J (mm)	EN115-1 COP	Without Auxiliary brake	1100		1100		1200		1270		1200		1270		1400	
		With Auxiliary brake	1000		1000											
	SS626	Without Auxiliary brake	1100		1100		1300 *Note3		1270		1300 *Note3		1270		1400	
		With Auxiliary brake	1000		1000											
Total plan length of truss L (mm)			√3 H+4820	√3 H+4890	√3 H+5620	√3 H+5690	√3 H+5820	√3 H+5890	√3 H+6440	√3 H+6510	√3 H+5945	√3 H+6015	√3 H+6440	√3 H+6510	√3 H+6440	√3 H+6510
Pit length P (mm)			4400	4470	4800	4870	4800	4870	4800	4870	4800	4870	4800	4870	4800	4870
Lower pit depth Q (mm)			1100	1300	1100	1300	1100	1300	1100	1300	1100	1300	1100	1300	1100	1300
Escalator width W1 (mm)			1550						1662		1550		1662			
Handrail between both centers W2 (mm)			1236								1236					
Nominal step width W3 (mm)			1002								1002					
Truss width W4 (mm)			1510						1622		1510		1622			
Pit width W5 (mm)			1660						1772		1660		1772			

Note 3: For SS626, IE3 motor shall be applied, consequently the truss depth is expanded.

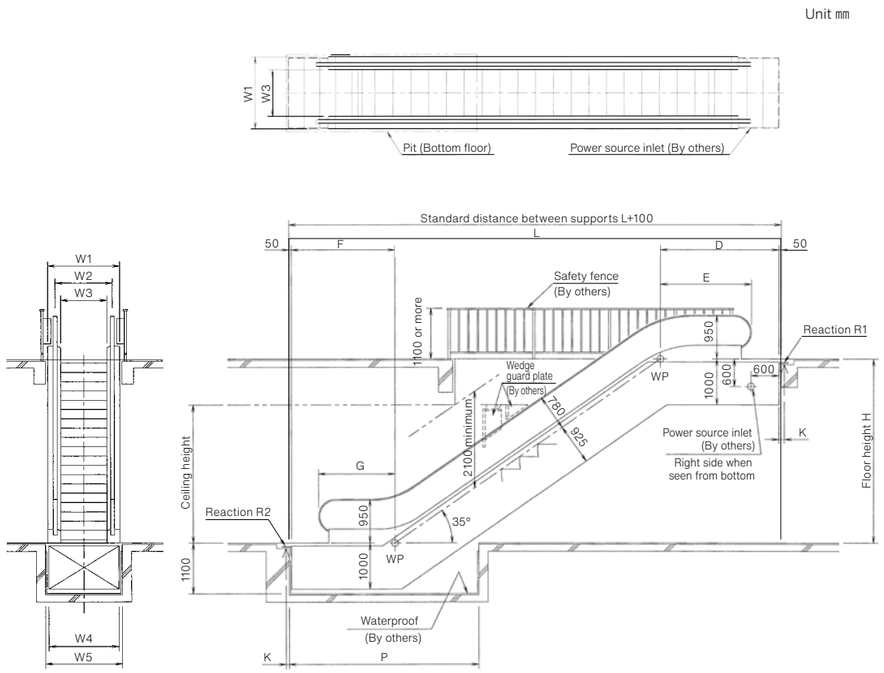
Model type : S600

Model type			S600						S600			
Speed			30m/min						39m/min			
Angle			30 deg.						30 deg.			
Floor height H (mm)			3000 to 6000				6001 to 14500		3000 to 12000		12001 to 14500	
Truss height (mm)			3000 to 6000				6010 to 14500		3000 to 12000		12010 to 14500	
Type			Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
Number of Flat step			2		3				3			
Upper truss length D (mm)			3030		3430		3630	3930	3755	4055	4250	
Upper balustrade length E (mm)			1830		2230				2355			
Lower truss length F (mm)			2290	2360	2690	2760	2690	2760	2690	2760	2690	2760
Lower balustrade length G (mm)			1590		1990				1990			
Upper truss depth J (mm)	EN115-1 COP	Without Auxiliary brake	1100				1200		1200		1270	
		With Auxiliary brake	1000									
	SS626	Without Auxiliary brake	1100				1300 *Note3		1300 *Note3		1270	
		With Auxiliary brake	1000									
Total plan length of truss L (mm)			√3 H+5320	√3 H+5390	√3 H+6120	√3 H+6190	√3 H+6320	√3 H+6690	√3 H+6445	√3 H+6815	√3 H+6940	√3 H+7010
Pit length P (mm)			4400	4470	4800	4870	4800	4870	4800	4870	4800	4870
Lower pit depth Q (mm)			1100	1300	1100	1300	1100	1300	1100	1300	1100	1300
Escalator width W1 (mm)			1150						1150		1262	
Handrail between both centers W2 (mm)			836						836			
Nominal step width W3 (mm)			603						603			
Truss width W4 (mm)			1110						1110		1222	
Pit width W5 (mm)			1260						1260		1372	

Note 3: For SS626, IE3 motor shall be applied, consequently the truss depth is expanded.

Layout plan 35 deg.

Unit mm

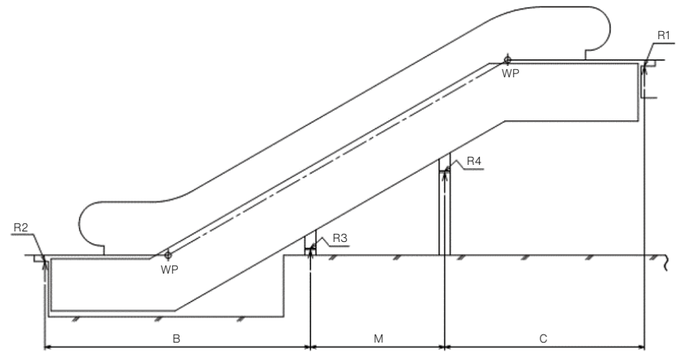


Model type：S1000 / S800 / S600

Model type		S1000		S800		S600		S1000		S800		S600	
Speed		30m/min											
Angle		35 deg.											
Floor height H (mm)		3000 to 6000											
Truss height (mm)		3006 to 6000											
Type		Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
Number of Flat step		2						3					
Upper truss length D (mm)		2590		2890		3090		2990		3290		3490	
Upper balustrade length E (mm)		1890						2290					
Lower truss length F (mm)		2325	2395	2325	2395	2325	2395	2725	2795	2725	2795	2725	2795
Lower balustrade length G (mm)		1625						2025					
Upper truss depth J (mm)	Without Auxiliary brake	1100						1100					
	With Auxiliary brake	1000						1000					
Total plan length of truss L (mm)		1.4282 H+4915	1.4282 H+4985	1.4282 H+5215	1.4282 H+5285	1.4282 H+5415	1.4282 H+5485	1.4282 H+5715	1.4282 H+5785	1.4282 H+6015	1.4282 H+6085	1.4282 H+6215	1.4282 H+6285
Pit length P (mm)		4170	4240	4170	4240	4170	4240	4570	4640	4570	4640	4570	4640
Lower pit depth Q (mm)		1100	1300	1100	1300	1100	1300	1100	1300	1100	1300	1100	1300
Escalator width W1 (mm)		1550		1350		1150		1550		1350		1150	
Handrail between both centers W2 (mm)		1236		1036		836		1236		1036		836	
Nominal step width W3 (mm)		1002		802.5		603		1002		802.5		603	
Truss width W4 (mm)		1510		1310		1110		1510		1310		1110	
Pit width W5 (mm)		1660		1460		1260		1660		1460		1260	

Reaction Value at Support

Contents of notation (applicable regulations)
「EN115-1」=EN115-1:2017
「COP」=COP2021 (Hong Kong)
「SS626」=SS626:2017



Model type		S1000							
Speed		30m/min、39m/min							
Angle		30 deg.							
Floor height H (mm)		3000 to 6000		6001 to 9500		9501 to 14500			
Truss height (mm)		3000 to 6000		6010 to 9500		9510 to 14500			
Type		Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
Support number		2		3		3		4	
Reaction symbol & Reaction Value (N)	R1	9.35H+36500		4.8C+17000		4.8C+38000		4.8C+38000	
	R2	9.35H+32500		4.8B+10000		4.8B+16000		4.8B+16000	
	R3	—		4.8(B+C)+10000		4.8(B+C)+64000		4.8(B+M)+30000	
	R4	—		—		—		4.8(C+M)+34000	

Model type		S800							
Speed		30m/min、39m/min							
Angle		30 deg.							
Floor height H (mm)		3000 to 6000		6001 to 11500		9501 to 14500			
Truss height (mm)		3000 to 6000		6010 to 11500		9510 to 14500			
Type		Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
Support number		2		3		3		4	
Reaction symbol & Reaction Value (N)	R1	8.15H+33500		4.25C+17000		4.25C+38000		4.25C+38000	
	R2	8.15H+29500		4.25B+10000		4.25B+16000		4.25B+16000	
	R3	—		4.25(B+C)+10000		4.25(B+C)+64000		4.25(B+M)+30000	
	R4	—		—		—		4.25(C+M)+34000	

Model type		S600							
Speed		30m/min、39m/min							
Angle		30 deg.							
Floor height H (mm)		3000 to 6000		6001 to 9500		9501 to 14500			
Truss height (mm)		3000 to 6000		6010 to 9500		9510 to 14500			
Type		Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
Support number		2		3		3		4	
Reaction symbol & Reaction Value (N)	R1	6.96H+30500		3.7C+17000		3.7C+38000		3.7C+38000	
	R2	6.96H+26500		3.7B+10000		3.7B+16000		3.7B+16000	
	R3	—		3.7(B+C)+10000		3.7(B+M)+64000		3.7(B+M)+30000	
	R4	—		—		—		3.7(C+M)+34000	

Model type		S1000		S800		S600	
Speed		30m/min					
Angle		35 deg.					
Floor height H (mm)		6000 or less					
Truss height (mm)		6000 or less					
Type		Indoor	Outdoor	Indoor	Outdoor	Indoor	Outdoor
Support number		2		2		2	
Reaction symbol & Reaction Value (N)	R1	7.85H+36000		6.85H+33000		5.85H+30000	
	R2	7.85H+33000		6.85H+30000		5.85H+27000	

Dimensions relating to the supports

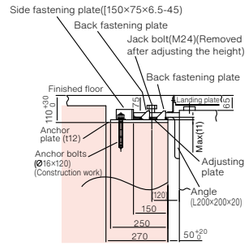
Contents of notation (applicable regulations)
「EN115-1」=EN115-1:2017
「COP」=COP2021 (Hong Kong)
「SS626」=SS626:2017

Inclination angle	Regulation of Standards	Type	Rated speed (m/min)	Floor height (H)	Support type		Anchor plate (t12) (mm)		
					Lower (Fixed side)	Upper (Non fixing side)	P	M	Q
30 deg.	EN115-1	S1000	30	H≦6.0m	TYPE A-1	TYPE A-2	1650	1640	1460
				6.0m<H≦9.5m	TYPE A-1	TYPE B	1650	1640	1460
				9.5m<H≦14.5m	TYPE A-1	TYPE C	1760	1750	1572
			39	H≦6.0m	TYPE A-1	TYPE A-2	1650	1640	1460
				6.0m<H≦9.5m	TYPE A-1	TYPE B	1760	1750	1572
				9.5m<H≦14.5m	TYPE A-1	TYPE C	1760	1750	1572
		S800	30	H≦6.0m	TYPE A-1	TYPE A-2	1450	1440	1260
				6.0m<H≦9.5m	TYPE A-1	TYPE B	1450	1440	1260
				9.5m<H≦11.5m	TYPE A-1	TYPE C	1450	1440	1260
				11.5m<H≦14.5m	TYPE A-1	TYPE C	1560	1550	1372
			39	H≦6.0m	TYPE A-1	TYPE A-2	1450	1440	1260
				6.0m<H≦8.0m	TYPE A-1	TYPE B	1450	1440	1260
				9.0m<H≦14.5m	TYPE A-1	TYPE C	1560	1550	1372
		S600	30	H≦6.0m	TYPE A-1	TYPE A-2	1250	1240	1060
				6.0m<H≦9.5m	TYPE A-1	TYPE B	1250	1240	1060
				9.5m<H≦14.5m	TYPE A-1	TYPE C	1250	1240	1060
			39	H≦6.0m	TYPE A-1	TYPE A-2	1250	1240	1060
				6.0m<H≦9.5m	TYPE A-1	TYPE B	1250	1240	1060
				9.5m<H≦12.0m	TYPE A-1	TYPE C	1250	1240	1060
				12.0m<H≦14.5m	TYPE A-1	TYPE C	1360	1350	1172
35 deg.		S1000	30	H≦6.0m	TYPE A-1	TYPE A-2	1650	1640	1460
		S800		H≦6.0m	TYPE A-1	TYPE A-2	1450	1440	1260
		S600		H≦6.0m	TYPE A-1	TYPE A-2	1250	1240	1060

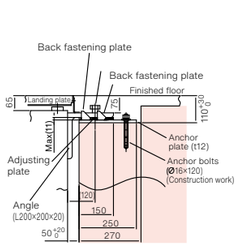
Schematic drawing of support
*For example single units installation in concrete structure.

Sectional drawing of support

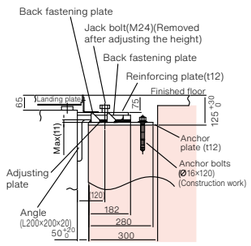
Type : A-1



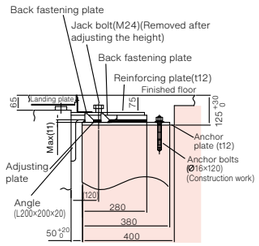
A-2



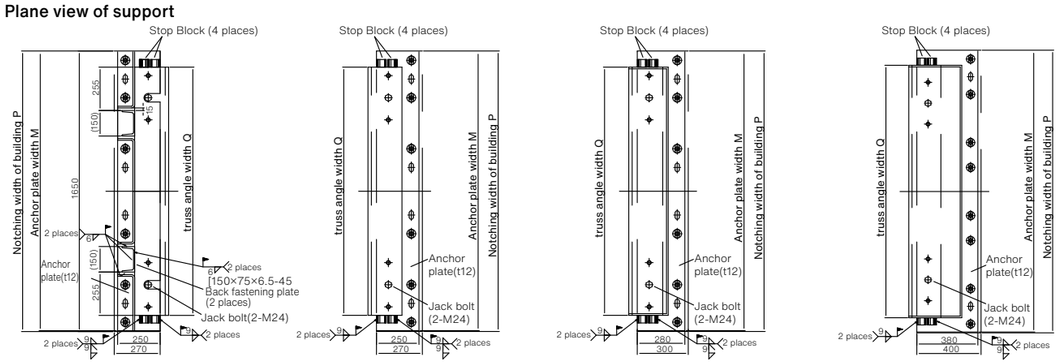
B



C



Plane view of support



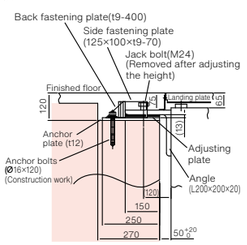
*Note：The case of construction in parallel installation or crossing installation, please consult our local distributor.
Plan to install it in a steel structure, please consult our local distributor.

Inclination angle	Regulation of Standards	Type	Rated speed (m/min)	Floor height (H)	Support type		Anchor plate (t12) (mm)		
					Lower (Fixed side)	Upper (Non fixing side)	P	M	Q
30 deg.	COP SS626	S1000	30	H≦6.0m	TYPE D-1	TYPE D-2	1650	1640	1460
				6.0m<H≦9.5m	TYPE D-1	TYPE D-2	1650	1640	1460
				9.5m<H≦14.5m	TYPE D-1	TYPE D-2	1760	1750	1572
			39	H≦6.0m	TYPE D-1	TYPE D-2	1650	1640	1460
				6.0m<H≦14.5m	TYPE D-1	TYPE D-2	1760	1750	1572
		S800	30	H≦6.0m	TYPE D-1	TYPE D-2	1450	1440	1260
				6.0m<H≦11.5m	TYPE D-1	TYPE D-2	1450	1440	1260
				11.5m<H≦14.5m	TYPE D-1	TYPE D-2	1560	1550	1372
			39	H≦6.0m	TYPE D-1	TYPE D-2	1450	1440	1260
				6.0m<H≦8.0m	TYPE D-1	TYPE D-2	1450	1440	1260
				9.0m<H≦14.5m	TYPE D-1	TYPE D-2	1560	1550	1372
		S600	30	H≦6.0m	TYPE D-1	TYPE D-2	1250	1240	1060
				6.0m<H≦14.5m	TYPE D-1	TYPE D-2	1250	1240	1060
			39	H≦6.0m	TYPE D-1	TYPE D-2	1250	1240	1060
				6.0m<H≦12.0m	TYPE D-1	TYPE D-2	1250	1240	1060
				12.0m<H≦14.5m	TYPE D-1	TYPE D-2	1360	1350	1172
35 deg.		S1000	30	H≦6.0m	TYPE D-1	TYPE D-2	1650	1640	1460
		S800		H≦6.0m	TYPE D-1	TYPE D-2	1450	1440	1260
		S600		H≦6.0m	TYPE D-1	TYPE D-2	1250	1240	1060

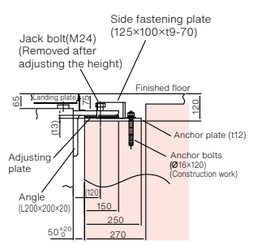
Schematic drawing of support
*For example single units installation in concrete structure.

Sectional drawing of support

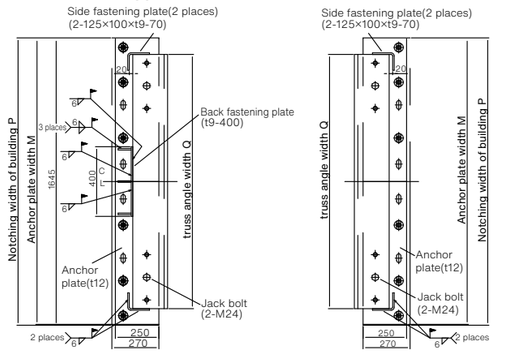
Type : D-1



D-2

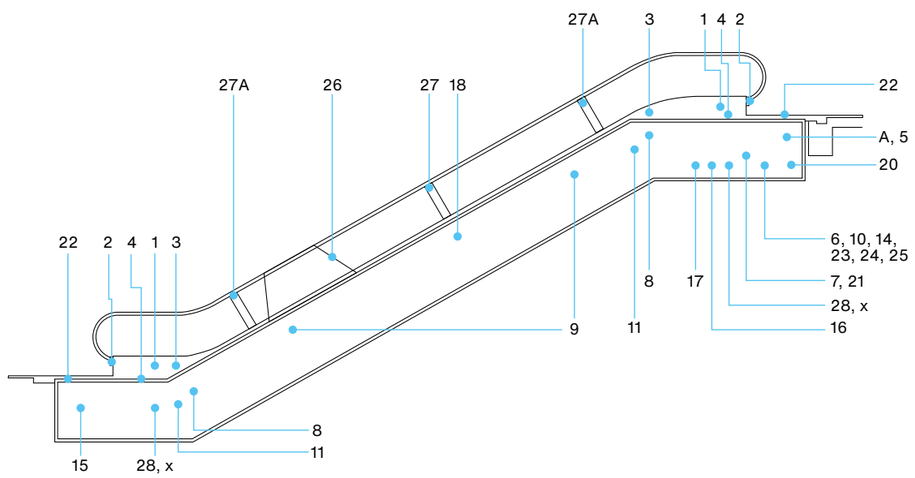


Plane view of support



*Note：The case of construction in parallel installation or crossing installation, please consult our local distributor.
Plan to install it in a steel structure, please consult our local distributor.

Safety Device



Safety device

○: Applied, △: Optional, —: Not applicable

Part	No.	Device name	Number (Note 1)	Application		
				EN115-1	COP	SS 626
Upper floor	1	Emergency stop button	1	○	○	○
Upper landing part	2	Handrail inlet safety device	2 (RL)	○	○	○
	3	Skirt guard panel safety device (Note 2)	2 (RL)	○	○	△
	4	Comb safety device	2 (RL)	○	○	○
	16	Auxiliary brake — Floor height: 6000mm or less (Note 3)	1	△	○	△
		Auxiliary brake — Floor height: over 6000mm	1	○	○	○
	22	Landing plate switch	1	○	○	○
Upper truss	A	PESSRAE	1	○	○	○
	5	Electrical circuit protection device	1	○	○	○
	6	Electromagnetic brake	1	○	○	○
	23	Brake release checking device	1	○	○	○
	7	Broken drive-chain detection device	1	○	○	○
	8	Step up-thrust device (Note 4)	2 (RL)	○	○	○
	9	Step sag detection device	1	○	○	○
	10	Electromagnetic brake overheat protection device (Note 5)	1	○	○	○
	11	Protection cover against rotating steps	1	○	○	○
	24	Over speed governor (PG)	1	○	○	○
	x	Additional reversal detection device (for Hong Kong)	2 (RL)	○	○	○
	14	Motor overheat protection device (Note 5)	1	○	○	○
	17	Handrail speed monitoring device	2 (RL)	○	○	○
	25	Stopping distance detector	1	○	○	○
	21	Ratchet wheel	1	○	○	○
	20	Fire shutter interlocking device	1	△	△	△
	28	Missing step detector	2 (RL)	○	○	○
Middle	18	Skirt guard panel safety device (Note 2)	(Note 6)	△	○	△
	26	Running up prevention device	2 (RL)	△	△	△
	27	Emergency stop button (Middle)	(Note 7)	(Note 6)	(Note 6)	(Note 6)
	27A	Emergency stop button (Note 8)	(Note 9)	—	—	△
Lower floor	1	Emergency stop button	1	○	○	○
Lower landing part	2	Handrail inlet safety device	2 (RL)	○	○	○
	3	Skirt guard panel safety device (Note 2)	2 (RL)	△	○	△
	4	Comb safety device	2 (RL)	○	○	○
	22	Landing plate switch	1	○	○	○
Lower truss	8	Step up-thrust device (Note 4)	2 (RL)	○	○	○
	9	Step sag detection device	1	○	○	○
	11	Protection cover against rotating steps	1	○	○	○
	15	Broken step-chain detection device	2 (RL)	○	○	○
	28	Missing step detector	2 (RL)	○	○	○
	x	Additional reversal detection device (for Hong Kong)	2 (RL)	○	○	○

Contents of notation (applicable regulations)
「EN115-1」=EN115-1:2017
「COP」=COP2021 (Hong Kong)
「SS626」=SS626:2017

Note 1: "RL" means right and left each one.
Note 2: Skirt guard panel safety devices are not mandatory by the codes.
Note 3: Apply this specification for floor height 6000mm or less, change the depth of upper truss into 1100mm from 1000mm.
Note 4: Step upthrust detector is mandatory for SS 626.
Note 5: Built-in driving device
Note 6: Application and number(s) of skirt guard panel safety device are as follows.

Floor height (H)	Quantity
H≦6000mm	2(RL)
6000<H≦7500mm	4(RL)
7500<H≦9500mm	6(RL)

Note 7: The quantity is determined by the codes.
Reference information: Distance between switches shall not exceed 15 m for COP, and 30 m for EN115-1 and SS 626.
Note 8: This device is provided in case a shutter or a fireproof gate are installed in front of the landings, and where the exit of the escalator is blocked by structural measures.
Note 9: Installation location and the quantity are as follows.

Operation direction	Installation location	Quantity
Up	Upper-floor right-hand side	1
Down	Lower-floor left-hand side	1
Up-down reversible	Upper-floor right-hand side + lower-floor left-hand side	2

Works by Others

Works not included in the Installation Contract (costs for the followingwork shall be burden by the customer)

1. Any structural works, such as opening floors to accommodate the escalators or the installation of necessary support beams.
2. Finishes to peripheral architecture after installation.
3. Pit waterproofing work.
4. Installation of handrails, fences or other safety features around the escalator.
5. Escalator truss exterior cladding work (Maximum load 123 N/m^2); bottom illumination work. (Although not included within the scope of the standard installation contract, such customizations are possible upon request, at an additional cost.)
6. Installation of fire protection shutters, sprinklers and other building-safety features.
7. Building electrical work, such as the installation of main power cables, lighting cables, inspection power cables and grounding wires leading up to the escalator machine room.
8. Other peripheral wiring work, such as wiring to interlock escalator circuit with the fire shutter system (or other building safety systems), or wiring connections between escalator and various peripheral systems.
9. Worker locker room, materials stock yard, and other facilities necessary for the duration of the installation work.
10. Power supply, scaffolding, and other basic facilities necessary during installation and adjustment work.
11. Installation of wedge guard plates that are necessary where the escalators intersect with the ceiling, or wherever escalators intersect.
12. Any other architectural works, such as the installation of partitions or fences around landings.

Please provide us with the following information when ordering or making inquires.

1. Name and address of your building.
2. Type of escalator to be installed.
3. The total number of floors and height of each floor where the escalators are to be installed.
4. The voltage and frequency of main power supply, along with the voltage and frequency of power supplies to be used for lighting inspection.
5. Desired color of the handrails.
6. Whether the truss requires exterior cladding work.
7. Whether bottom illumination work is necessary.
8. Whether the escalator circuit is to be interlocked with the fire protection system or other peripheral circuitry.