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Lead the Future with Intelligent Features

- ✓ Intelligent safety features: Monitor the conditions of passengers and the escalator which may pose possible hazards when an escalator is running, in a dynamic, real-time and active manner.
- ✓ Detect changes in the ambient volume, temperature, light level, and rainfall (outdoor) in real time to realize dynamic and intelligent control of escalators.
- ✓ Utilize real-time intelligent monitoring to improve the efficiency and pertinence of operations management and maintenance of escalators.

Safe and Reliable

- ✓ Over 20 standard safety features to fully ensure passenger safety.
- ✓ Proprietary anti-jump design of leaving steps and new step band double-guide to enable escalators to run more steadily and reliably.
- ✓ Standard user-friendly interface in Chinese and English and one-to-one detection of safety devices to improve the efficiency of escalator maintenance.

A Wide Range of Optional Features

- ✓ Greater rise and rich decoration options to perfect respond to high-end business scenarios.
- ✓ A wider range of speed, horizontal steps, balustrade height and radius of curvature of curved guide rails to select from to offer greater security.
- ✓ More types of inclinations to select from to meet different layout requirements.

Comfortable and Energy-saving

- ✓ LED lighting to save energy.
- ✓ Intelligent passenger sensors to prevent false startup caused by passing-by passengers and thus save energy.
- ✓ Optional bypass variable frequency and light-load energy-saving feature and phase-locking switch technology to enable escalators to run in a more energy-saving manner and provide a more comfortable ride experience.

Product Advantages

Lead the Future with Intelligent Features	P3
Safe and Reliable	P5
A Wide Range of Optional Features	P7
Comfortable and energy-Saving	P8

Design

Decoration Options	P9
Decorative Components	P11
All LED Lighting System	P15
Building interface protection device	P17

Feature List	P19
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Basic Specifications	P21
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Civil Work Drawing	P23
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Handrail Rated Width	P24
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Intelligent Product

○ Intelligent Escalator Terminal

- Identification and warnings of risky passenger behaviors (passengers ride with a pram):
Detect whether a passenger rides the escalator with a pram through the intelligent terminal at the landing areas of the escalator, and then give an acousto-optic alarm signal.
- Identification and warning of risky passenger behaviors (children play at the entrance):
Detect whether there are children playing at the landing areas of the escalator and give an acousto-optic alarm signal.
- Intelligent lubrication:
Automatically adjust the oiling strategy according to the rainfall level where an outdoor escalator is installed.
- Intelligent lighting control:
Automatically control the lighting according to the ambient illuminance and the operation state of the escalator.

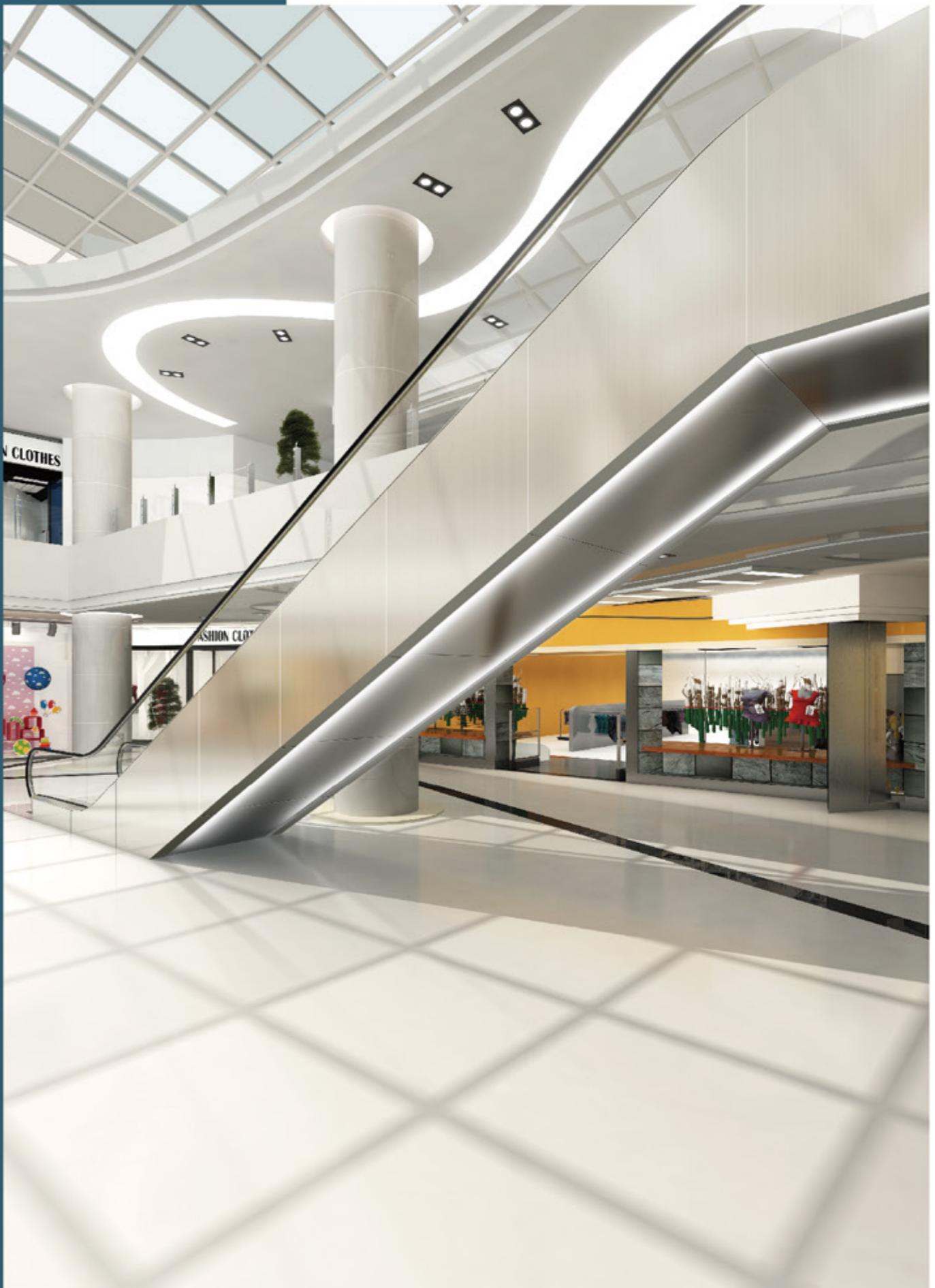
○ Intelligent handrail sterilization (UV light)

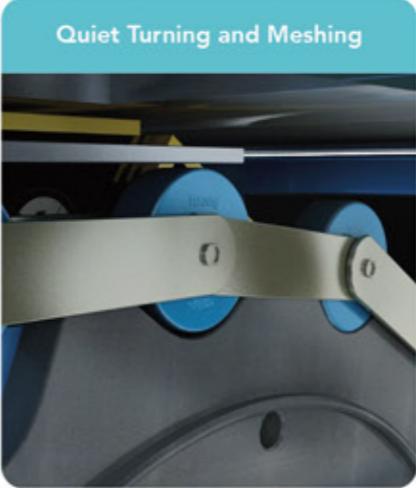
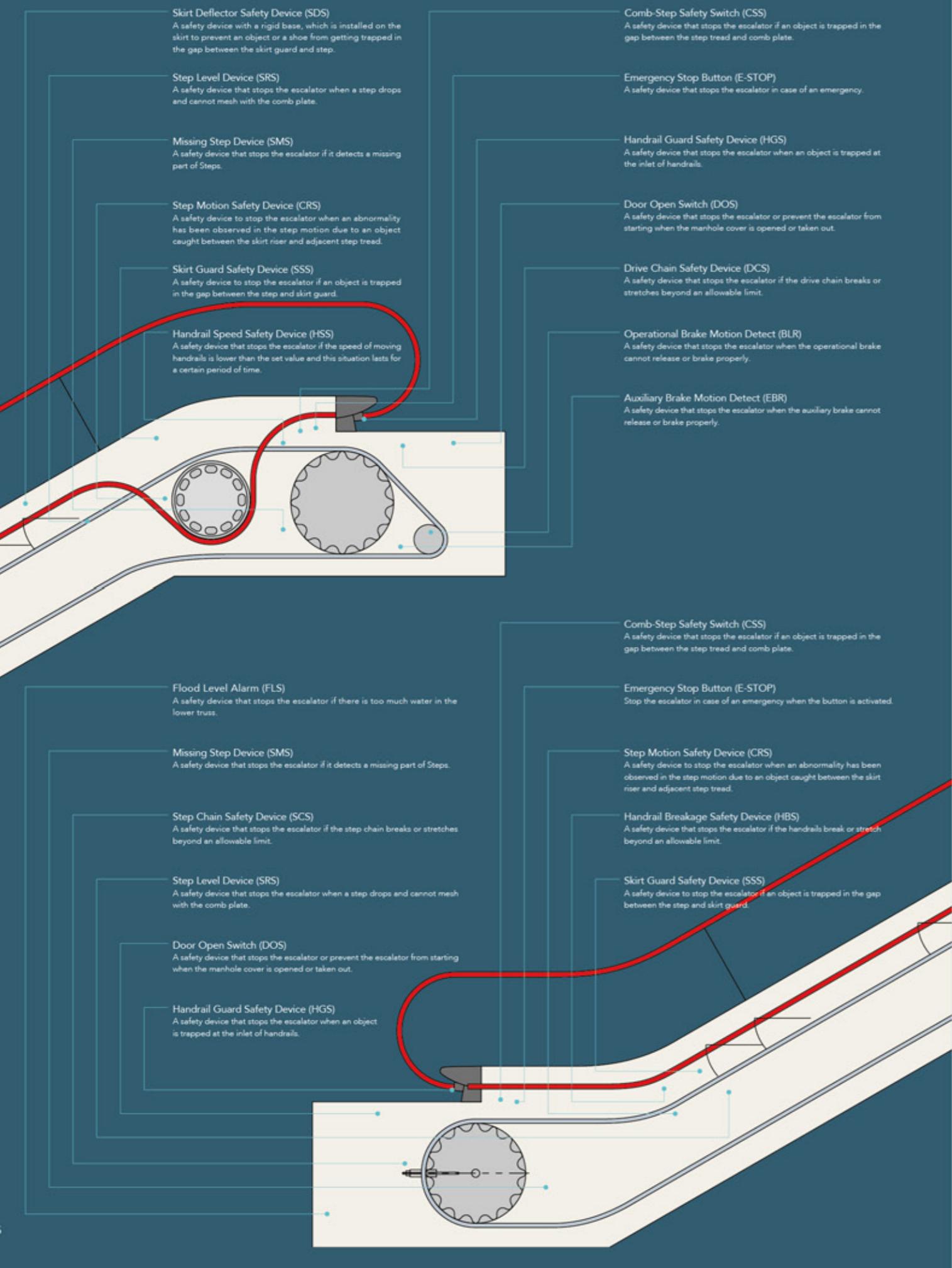
Automatically sterilize the handrails by way of UV light based on the actual operation state of the escalator.
Kill 99.99% of Staphylococcus Aureus and E. coli.

○ Intelligent lighting

Automatically select different heating strategies according to the ambient temperature and the operation state of the escalator.

Product Dimension	Function	Configuration
Intelligent Product	Identification and warning of risky passenger behaviors (passengers ride with a pram)	Optional package for intelligent terminal
	Identification and warning of risky passenger behaviors (children play at the landing areas)	
	Intelligent attentive announcer	
	Intelligent lighting control	
	Intelligent lubrication	
	Intelligent heating (if heaters are available)	Standard
	Intelligent handrail sterilization (UV light)	Optional
	Phase-locking switch of bypass inverter (VVVF escalators only)	Standard
	Light-load energy saving (VVVF escalators only)	Standard
	Passenger passing-by false-start prevention	Optional
	Control Panel LCD Operating Panel (CN/EN)	Standard
	Multi-Functional Operating Panel (CN/EN)	Optional
	One-on-one Fault Detect (Safety Device)	Standard





The drive chain wheel is directly meshed with the step roller made of high polymer wearable resin, which avoids rigid shock between metal of the chain wheel and the step shaft.



The entire travel of the leaving side of the step band adopts a double-guide structure, which makes the steps run more smoothly.



Mitsubishi's proprietary step band guide rail structure which realizes anti-jumping of the leaving steps and thus provides better safety and reliability.



Each safety device is one-to-one with fault codes, which speeds up troubleshooting and improves the efficiency of maintenance and repair.



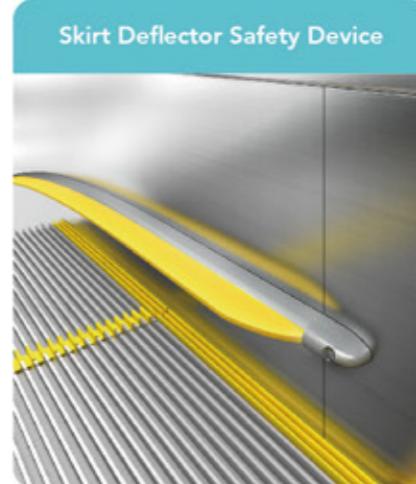
In the control panel, there is an LCD operating panel in Chinese and English, which is used to set parameters and check the escalator state, thus facilitating maintenance management.



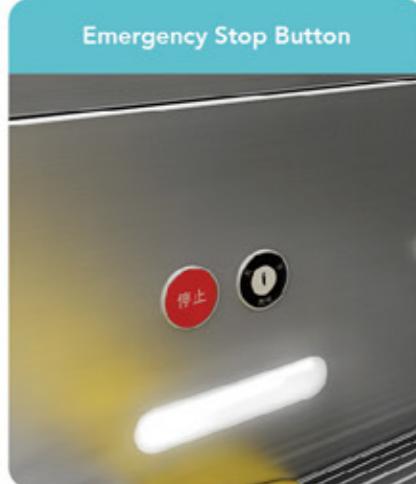
An operating panel in Chinese and English can be installed at the landing areas of the escalator, which is used to set functions and check the faults, thus improving management efficiency.



Continues Mitsubishi's hidden handrail inlet design, which greatly reduces the risk of objects getting trapped; a long and soft inlet guard is installed to provide multiple protection.



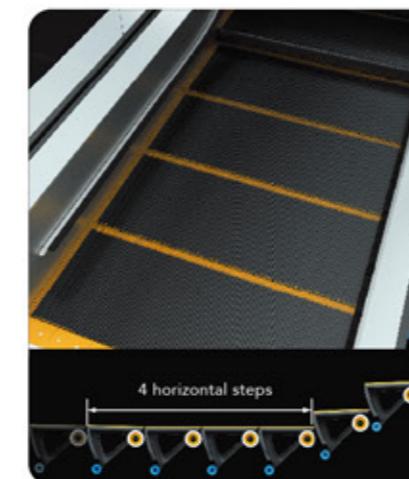
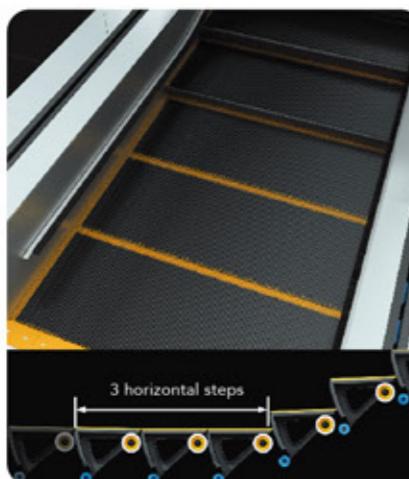
A safety device which prevents passengers stand too close to the edge of a step and prevent their feet from getting trapped in the gap between the skirt guard and step.



In case of an emergency, persons nearby or passengers can press the emergency stop button to stop the escalator manually.

A Wide Range of Optional Features

- Balustrade height: 950/1000 mm
- Radius of curvature of curved guide rail: 2600/1500/1000 mm (upper); 2000/1000 mm (lower)
- Inclination: 27.3°, 30°, 35°
- Rise: 13 m
- Horizontal steps: 2/3/4 steps



Comfortable and Energy-saving

Smart K-II

Bypass Inverter and Light-load Energy-saving Technology

At rated speed, automatically switch off the inverter and switch over to the working frequency grid to greatly extend the service life of the inverter. If the inverter has an unrecoverable fault, manually switch it to standby mode. If there is no passenger, automatically switch it to low speed or stop and standby mode; if under full load, feed back the regenerated energy to the grid to save energy.

Phase-locking Switch Technology

Mitsubishi's proprietary inverter is featured by modular design and small size; with sophisticated "active phase synchronization and phase-locking switch technology", it realizes smooth switch from variable frequency to working frequency and provides a more comfortable ride experience.



Intelligent Attentive Announcer

The voice announcer adaptive to ambient volume: In a noisy environment the volume of announcer increases and in a quiet environment the volume of announcer decreases, which ensures the overall comfort of the environment and passengers.



Intelligent Passenger Sensor

Intelligent sensors with innovative Time of Light technology can get an accurate picture of passenger's walking path by detecting the profile of the object to be detected, and effectively identify passengers who pass by and will not ride the escalator and those who will ride the escalators.



LED Lighting System

LED lighting improves the environmental quality and saves energy.

Decoration Options

Smart K-II



Balustrade KS-SB-II / KS-SBF-II

Part Description

- Interior Panel**: Fully transparent rectangular glass interior panel
- Step**: Aluminum alloy step with yellow resin strips at three sides (other specifications are available); silver gray coating
- Handrail**: Beige PU (NT-Belge) (other specifications are available)
- Inner Deck and Outer Deck**: Hairline-finish SUS
- Handrail Inlet**: ZHE-02A silver gray aluminum alloy (other specifications are available)
- Operation Indicator**: ZIN-02 (other models are available)
- Skirt**: Hairline-finish SUS (other specifications are available)
- Floor Plate**: ZCY-F02P SUS floor plate with anti-slip grooves (black coating inside)



Balustrade KS-B-II / KS-BF-II

Part Description

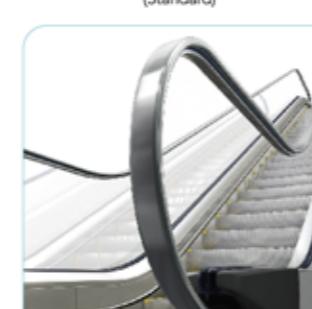
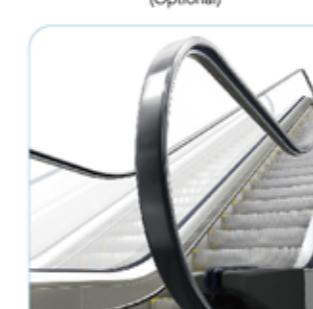
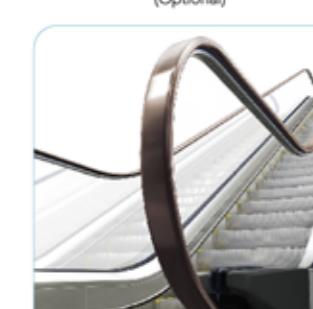
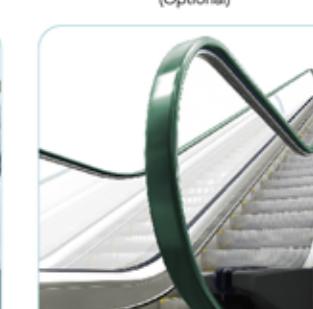
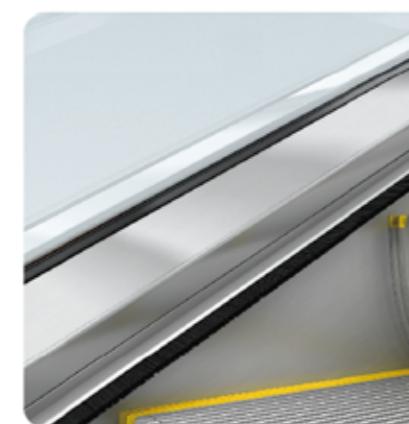
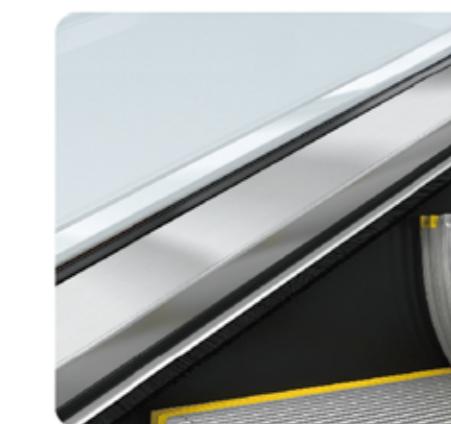
- Interior Panel**: Fully transparent rectangular glass interior panel
- Step**: Aluminum alloy step with yellow resin strips at three sides (other specifications are available); silver gray coating
- Handrail**: Beige PU (NT-Belge) (other specifications are available)
- Inner Deck and Outer Deck**: Hairline-finish SUS
- Handrail Inlet**: ZHE-02A black gray aluminum alloy (other specifications are available)
- Operation Indicator**: ZIN-02 (other models are available)
- Skirt**: Hairline-finish SUS (other specifications are available)
- Floor Plate**: ZCY-F02P SUS floor plate with anti-slip grooves (black coating inside)

Balustrade KP-B-II / KP-BF-II

Part Description

- Interior Panel**: Hairline-finish rectangular SUS interior panel
- Step**: All aluminum alloy step (other specifications are available); black gray coating
- Handrail**: Black PU (NT-Black) (other specifications are available)
- Main Deck**: Hairline-finish SUS
- Operation Indicator**: At the newel balustrade
- Skirt**: Hairline-finish SUS (other specifications are available)
- Floor Plate**: ZCY-F02P SUS floor plate with anti-slip grooves (black coating inside) (other specifications are available)

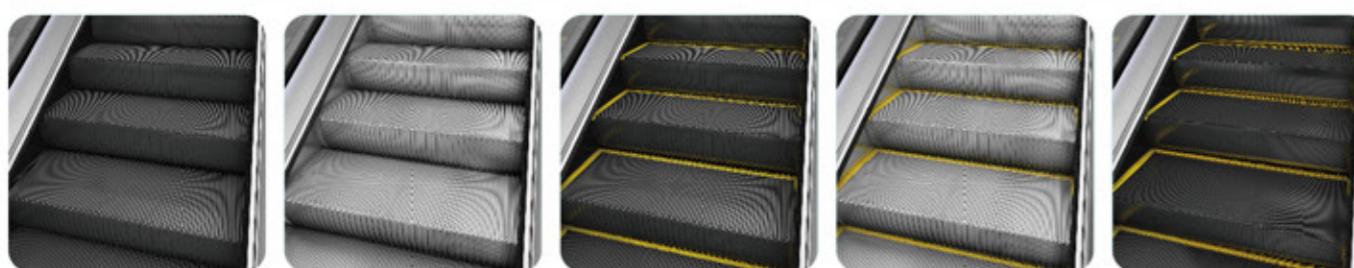


Handrail	Skirt	Inner Deck and Outer Deck	
 NT-Black (Standard)	 NT-Red (Optional)	 NT-Belge (Optional)	 NT-Blue (Optional)
 NT-Gray (Optional)	 NT-Charcoal (Optional)	 NT-Brown (Optional)	 NT-Green (Optional)
Skirt		Inner Deck and Outer Deck	
 Hairline-finish SUS	 Fluoridized SUS (black)	 Hairline-finish SUS	
Comb	Floor Number (optional)		
 Yellow resin	 Silver aluminum alloy	 SHANGHAI MITSUBISHI 2	

Decorative Components Customized Configurations



Step



All aluminum alloy step
No yellow resin strips
Black gray coating

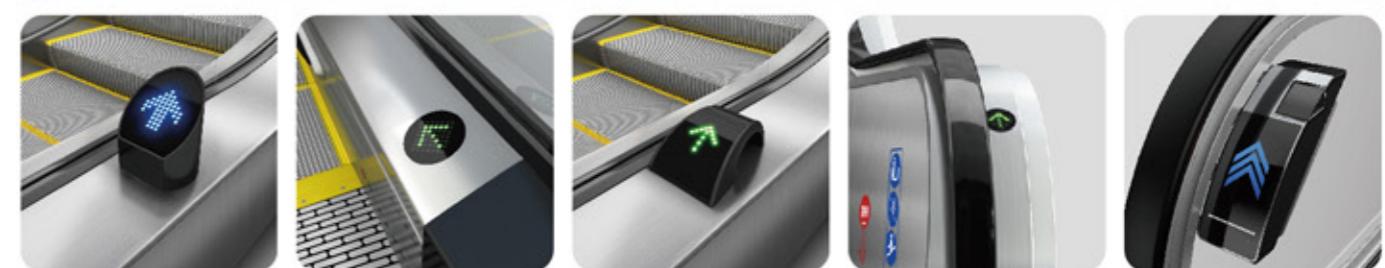
All aluminum alloy step
No yellow resin strips
Silver gray coating

Aluminum alloy step
Yellow resin strips at three sides
Black gray coating

Aluminum alloy step
Yellow resin strips at three sides
Silver gray coating

SUS step (only for indoor use)
Yellow resin strip sat three sides
Black coating

Operation Indicator



ZIN-03

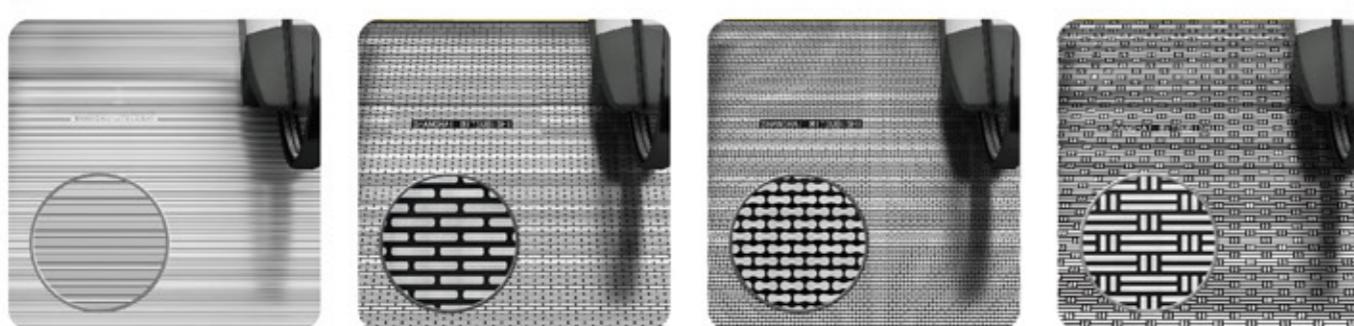
ZIN-02

ZIN-01
Only for indoor use

Newel balustrade
operation indicator
Only for KP-B-II or KP-BF-II

Intelligent terminal
operation indicator
Applicable when intelligent
terminals are available

Floor Plate



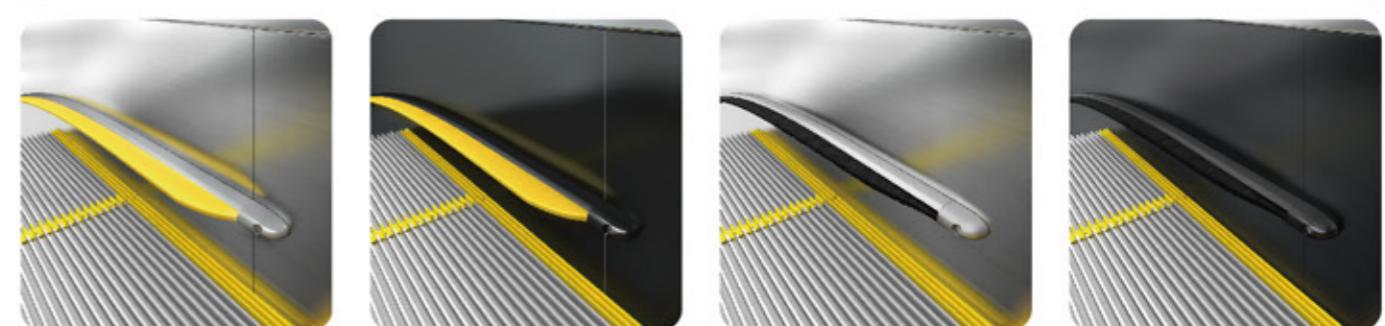
ZCY-F21P
Aluminum alloy floor plate
with anti-slip grooves

ZCY-F02P
Aluminum alloy floor plate
with anti-slip grooves
Dark coating inside

ZCY-F03P
Aluminum alloy floor plate
with anti-slip grooves
Dark coating inside

ZCY-F04P
Aluminum alloy floor plate
with anti-slip grooves
Dark coating inside

Skirt Deflector Safety Device



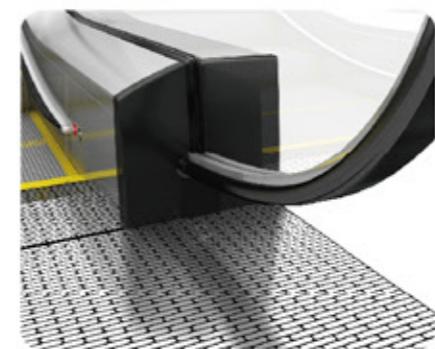
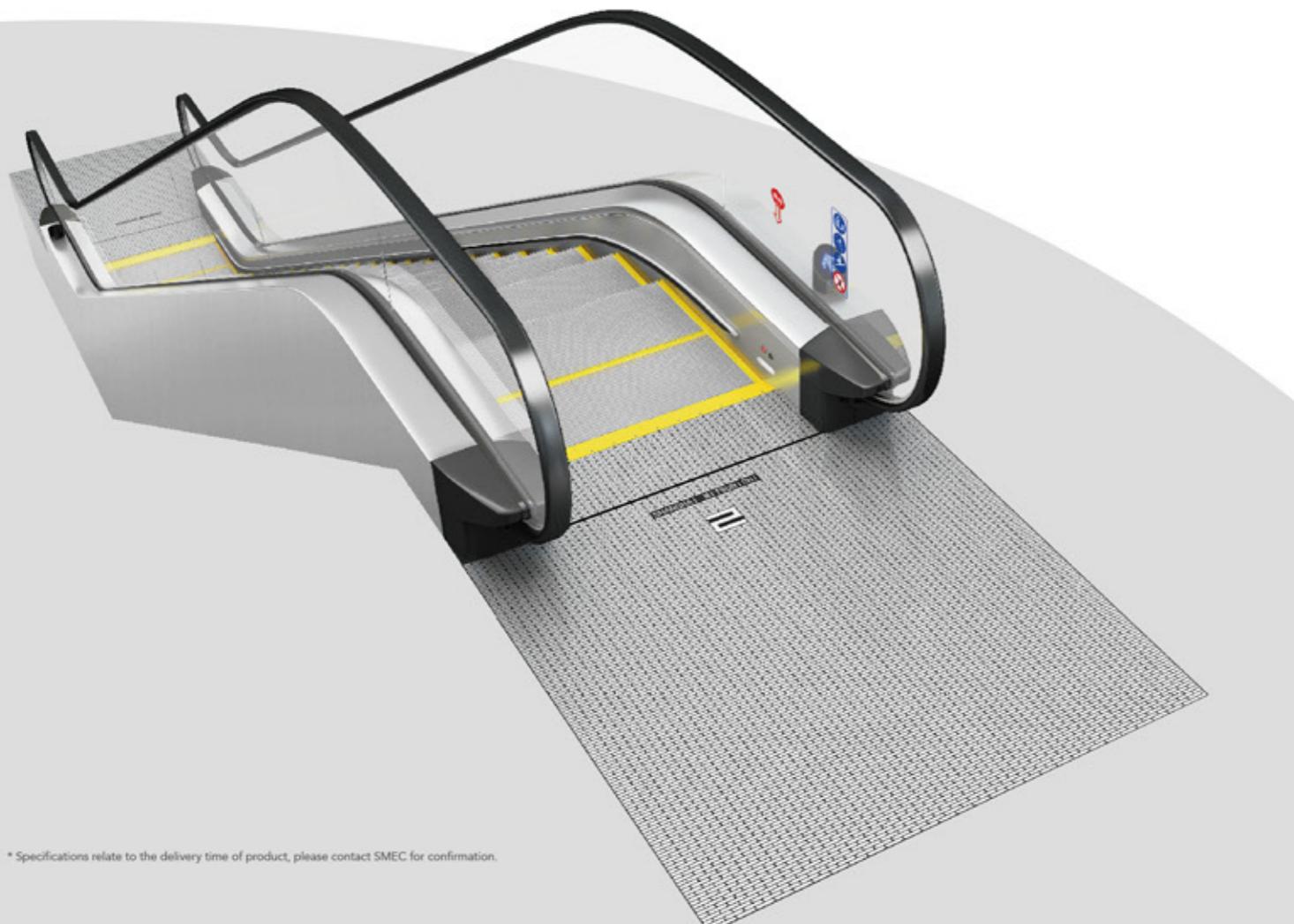
Silver base with yellow cleat

Black base with yellow cleat
(with black fluoridized stainless steel skirting plate)

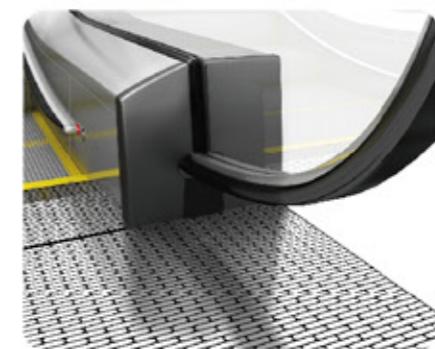
Silver base with black brush

Black base with black brush
(with black fluoridized stainless steel skirting plate)

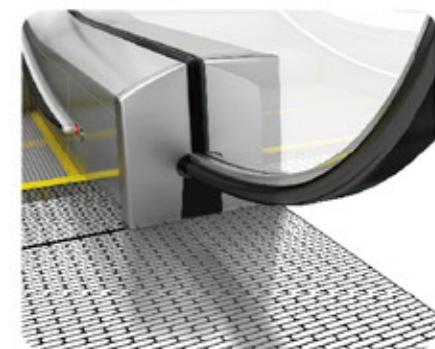
Handrail Inlet



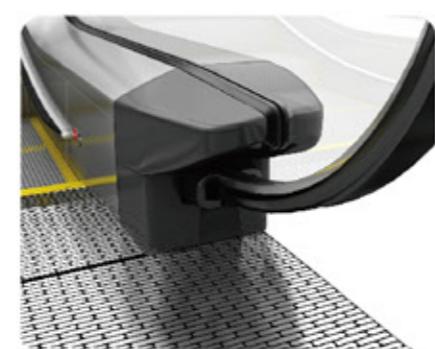
ZHE-01
Black gray resin square
Applicable to KS-SB-II/KS-SBF-II for indoor use



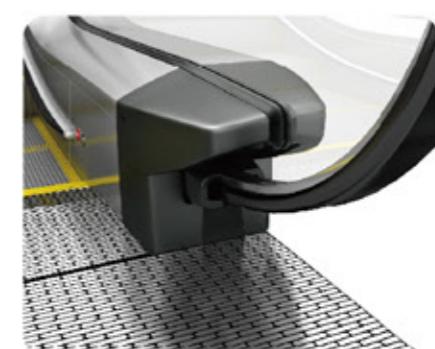
ZHE-01A
Black gray aluminum alloy square
Applicable to KS-SB-II/KS-SBF-II



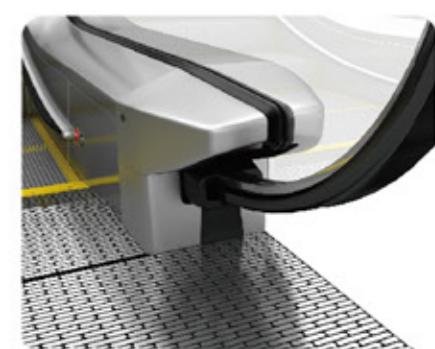
ZHE-01A
Silver gray aluminum alloy square
Applicable to KS-SB-II/KS-SBF-II



ZHE-02
Black gray resin streamlined
Applicable to KS-SB-II/KS-SBF-II/KS-B-II/KS-BF-II/KS-LB-II/KS-LBF-II



ZHE-02A
Black gray aluminum alloy streamlined
Applicable to KS-SB-II/KS-SBF-II/KS-B-II/KS-BF-II/KS-LB-II/KS-LBF-II



ZHE-02A
Silver gray aluminum alloy streamlined
Applicable to KS-SB-II/KS-SBF-II/KS-B-II/KS-BF-II/KS-LB-II/KS-LBF-II
Please contact SMEC for confirmation



Smart K-II escalators use all LED lighting system, including handrail lighting, skirt lighting, comb lighting, and under-step lighting, to fully improve the environmental quality, save energy and ensure safety and reliability. Except that under-step lighting only uses green for warning purposes, various colors are available for other lighting systems.

Lighting Type	Color Options	Control Method
Handrail Lighting	Colors can be selected (applicable to KS-LB-II/KS-LBF-II only)	Manual control (key switch or multi-functional operating panel)
Comb Lighting	Colors can be selected	Linkage control (switched on/off with the escalator)
Under-step Lighting	Green	Warning purpose only
Continuous Skirt Lighting	Colors can be selected	Linkage control (switched on/off with the escalator)
Dot-matrix Skirt Lighting	Colors can be selected	Linkage control (switched on/off with the escalator)

Note: The lighting system is optional.
Comb lighting/under-step lighting uses linkage control (which is switched on/off with the escalator); handrail lighting/skirt lighting uses manual control (which is switched on/off with the key switch of the escalator or manually through the multi-functional operating panel).

Optional Lighting Colors						
Optional			Non-standard (contact SMEC)			
White	Light blue	Yellow	Warm white	Blue	Green	Red
White	Light blue	Yellow	Warm white	Blue	Green	Red
						Orange



**Anti-climb Device
(optional)**

A safety device which prevents persons from getting onto and walking along the outer deck from a position near the ground outside of the escalator, or from trying to climbing onto and crossing over the balustrade and falling down from the escalator.

**Outer Deck Block Device
(by owner)**

A safety device which prevents persons, especially children, from getting into the outer deck from the upper and lower landing areas of the escalator, standing on the outer deck and walking along the deck.

**Vertical Deflector
(by owner)**

Vertical deflector is installed at the corner between the escalator and flooring and between criss-crossed escalators to prevent personal injury.

Function	Description	Code	Non-variable frequency	Variable frequency
■ Control and Safety Features				
Phase Reversal and Open Phase Protection	Switch off the main circuit and control circuit to stop the escalator if phase reversal or open phase is detected in the input power supply.	3E	●	●
Anti-Reversal Protection	Switch off the power supply to the drive machine and brakes in case of accidental reversal.	ARP	●	●
Auxiliary Brake	An auxiliary brake stops the escalator before the speed exceeds 1.4 times of the rated speed, or if the traveling direction changes.	AUX-BK *1*2	●	●
Operational Brake Motion Detect	Stop the escalator when the operational brake cannot release or brake properly.	BLR	●	●
Operational Brake	The operational brake works to stop the escalator and keeps it at a standstill.	BRK	●	●
Step Motion Safety Device	Stop the escalator when an abnormality has been observed in the step motion due to an object caught between the skirt riser and adjacent step tread.	CRS	○	○
Comb-Step Safety Device	Stop the escalator if an object is trapped in the gap between the step tread and comb plate.	CSS	●	●
Contactor Motion Detect	Stop the escalator when an abnormality has been observed in the contactor motion.	CTD	●	●
Drive Chain Safety Device	Stop the escalator if the drive chain breaks or stretches beyond an allowable limit.	DCS	●	●
Door Open Switch	Stop the escalator or prevent the escalator from starting when the manhole cover is opened or taken out.	DOS	●	●
Emergency Stop Button	Stop the escalator in case of an emergency when the button is activated.	E-STOP	●	●
Auxiliary Brake Motion Detect	Stop the escalator when the auxiliary brake cannot release or brake properly.	EBR *3	●	●
Electrical Safety Circuit Protection	Stop the escalator once the electrical safety devices in series work.	ESC	●	●
Braking Distance Monitoring	Prevent the escalator from restarting when the braking distance is more than 1.2 times of the maximum value.	ESD	●	●
Handrail Static Electricity Remover	Prevent handrails from generating static electricity.	HER	●	●
Overspeed Protection (1.2x)	Stop the escalator before the travel speed exceeds 1.2 times of the rated speed.	HGD1	●	●
Overspeed Protection (1.4x)	Stop the escalator before the travel speed exceeds 1.4 times of the rated speed.	HGD2 *3	●	●
Handrail Guard Safety Device	Stop the escalator when an object is trapped at the inlet of handrails.	HGS	●	●
Handrail Speed Safety Device	Stop the escalator if the speed of moving handrails is lower than the set value and this situation lasts for a certain period of time.	HSS	●	●
Low-Voltage Protection	Stop the escalator when the voltage of the inverter is too low.	LVP	—	●
Overcurrent Protection	Stop the escalator when the inverter has an overcurrent.	OCP	—	●
Motor Overload Protection	Stop the escalator when the motor is overloaded.	OCR	●	●
Overvoltage Protection	Stop the escalator when the voltage of the inverter is too high.	OVP	—	●
Power Phase Detect	Automatically monitor the phases and frequency of the power supply and bypass variable frequency to realize impact-free switch.	PLL	—	●
Passenger Sensor Fault	Diagnose the faults of passenger sensors and enable the escalator to cancel the standby mode in case of a fault.	PSD	—	○
Step Chain safety Device	Stop the escalator if the step chain breaks or stretches beyond an allowable limit.	SCS	●	●
Skirt Deflector Safety Device	A safety device with a rigid base, which is installed on the skirt to prevent an object or a foot from getting trapped in the gap between the skirt guard and step.	SDS	●	●
Step Static Electricity Remover	Prevent steps from generating static electricity.	SER	●	●
Missing Step Device	Stop the escalator if a missing part of Steps is detected.	SMS	●	●
Step Level Device	Stop the escalator when a step drops and cannot mesh with the comb plate.	SRS	●	●
Skirt Guard Safety Device	Stop the escalator if an object is trapped in the gap between the step and skirt guard.	SSS	○	○
Start Switch Bonding Detect	Prevent the escalator from restarting when the start switch is bonded.	SWD	●	●
Thermo-Detection in Invertor	Stop the escalator when the temperature of the inverter is too high.	THMF	—	●
Under Speed Protection	Stop the escalator when the travel speed of the escalator is lower than the set value.	USP	●	●
Flood Level Alarm	Stop the escalator if there is too much water in the lower truss.	FLS *4	●	●
Oil Level Alarm	Prevent the escalator from restarting when the level of the oiler is too low.	OILF *5	●	●
Over-Temperature Protection	Stop the escalator when over temperature of the motor is detected.	OTP	●	●
Handrail Breakage Safety Device	Stop the escalator if the handrails break or stretch beyond an allowable limit.	HBS	○	○
Operational Brake Wear Monitor	Prevent the escalator from restarting if the operational brake is found worn badly.		●	●

Function	Description	Code	Non-variable frequency	Variable frequency
■ Emergency Operation Features				
Fireman's Service Stop	Stop the escalator when fireman's service signal is received.	FSS	○	○
■ Operational and Service Features				
Inspection Operation	Inspection Operation mode is convenient for installation and commissioning.	INSP	●	●
Light Shut Off - Manual	Turn on or off the lighting manually.	LO-M *7	●	●
Auto Operation	The escalator runs at rated speed when passengers are detected by passenger sensors, and switches over to standby mode when no passenger is detected.	MDA	—	●
Constant Speed Operation	The escalator always runs at rated speed.	MDC	●	—
Automatic oiling	Automatically oil the chains of the escalator at preset time.	OIL *5	●	●
Passenger Sensor -Through-beam Type	Passenger sensors are through-beam sensors.	PSB *8	—	○
Passenger Sensor -Microwave Non-column Type	Passenger sensors are microwave sensors. (The detection distance can be up to 1.5 m, but the feature of false start prevention is not available.)	PSM *8	—	○
Passenger Sensor-Column Type	Passenger sensors are photoelectric columns.	PSP *8	—	○
Passenger Sensor (EsPDS)	Passenger sensors are intelligent passenger sensors EsPDS (in standby mode, neglect passengers passing by to reduce false start).	EsPDS *8	—	○
Low-Speed Standby	The escalator travels at a speed lower than the rated speed under no load.	SBLS *9	—	○
Stop and Standby	The escalator stops under no load.	SBSP *9	—	○
Direct Start	The escalator is directly driven by the mains electricity during startup and operation.	SDT	●	—
Backup Start	The escalator can manually switch to be directly driven by the mains electricity if the inverter fails.	SBK	—	●
Travel Direction Alternative	The travel direction of the escalator can be selected.	UDA	●	●
Bypass Variable Frequency	The escalator is powered by an inverter during startup, stop and low-speed standby, and directly driven by mains electricity when it is running at rated speed.	VFBF	—	●
Heater	Monitor the temperature of the escalator through the temperature sensor in real time: When the temperature is lower than the set value, this device will prevent the escalator from starting and automatically start or turn off the heater according to the temperature.	HEAT *10	○	○
Intelligent handrail sterilization (UV light)	Automatically sterilize the handrails by way of UV light according to the actual operation state of the escalator.	IHS	○	○
Intelligent lighting control	Automatically control the lighting according to the ambient illuminance and the operation state of the escalator.	IIC *15	○	○
Intelligent heating	Select different heating strategies according to the ambient temperature and the operation state of the escalator.	IHC *11	●	●
Intelligent lubrication	Automatically adjust the oiling strategy according to the rainfall level where an outdoor escalator is installed.	ILC *15	○	○
Light-load energy saving	Under light load, decrease the input voltage of the motor to ensure the optimum current and thus reduce energy loss.	LLS	—	●
Identification and warning of risky passenger behaviors (passengers ride with a pram)	Detect whether a passenger rides the escalator with a pram through the intelligent terminal at the landing areas of the escalator, and then give an acousto-optic alarm signal.	WDB-BS *15	○	○
Identification and warning of risky passenger behaviors (children play at the landing areas of the escalator)	Detect whether there are children playing at the landing areas of the escalator and give an acousto-optic alarm signal.	WDB-PHE *15	○	○
■ Information and Display Features				
Safety Device Code Display	Detect the safety device one by one and display the error code accordingly.	ASD	●	●
BA interface	Output the signals of basic operation state of the escalator through passive dry contacts.	BA	○	○
Buzzer	Remind the passengers of the start, fault, reversal or other information of the escalator.	BUZ	●	●
Direction Indication	Remind passengers of the travel direction, out-of-service or no-entry or other information of the escalator.	DI *12	○	○
Fireman's Emergency Operation-Complete	A signal is sent when the fireman's emergency operation is completed.	FE-CP	○	○
Balustrade Lighting	Lighting at the lower ends of the balustrade.	L-BAL *13	●	●
Under-Step Lighting	Lighting at the position where the steps come in and out to show the edge of steps.	L-STP	○	○
Intelligent Escalator Monitoring System	Use computers to monitor the operation state of escalators and give start and stop instructions when necessary.	SMART EYE	○	○
Skirt Lighting	Lighting on the skirt at both sides of the step band.	L-SKT *14	○	○

Feature

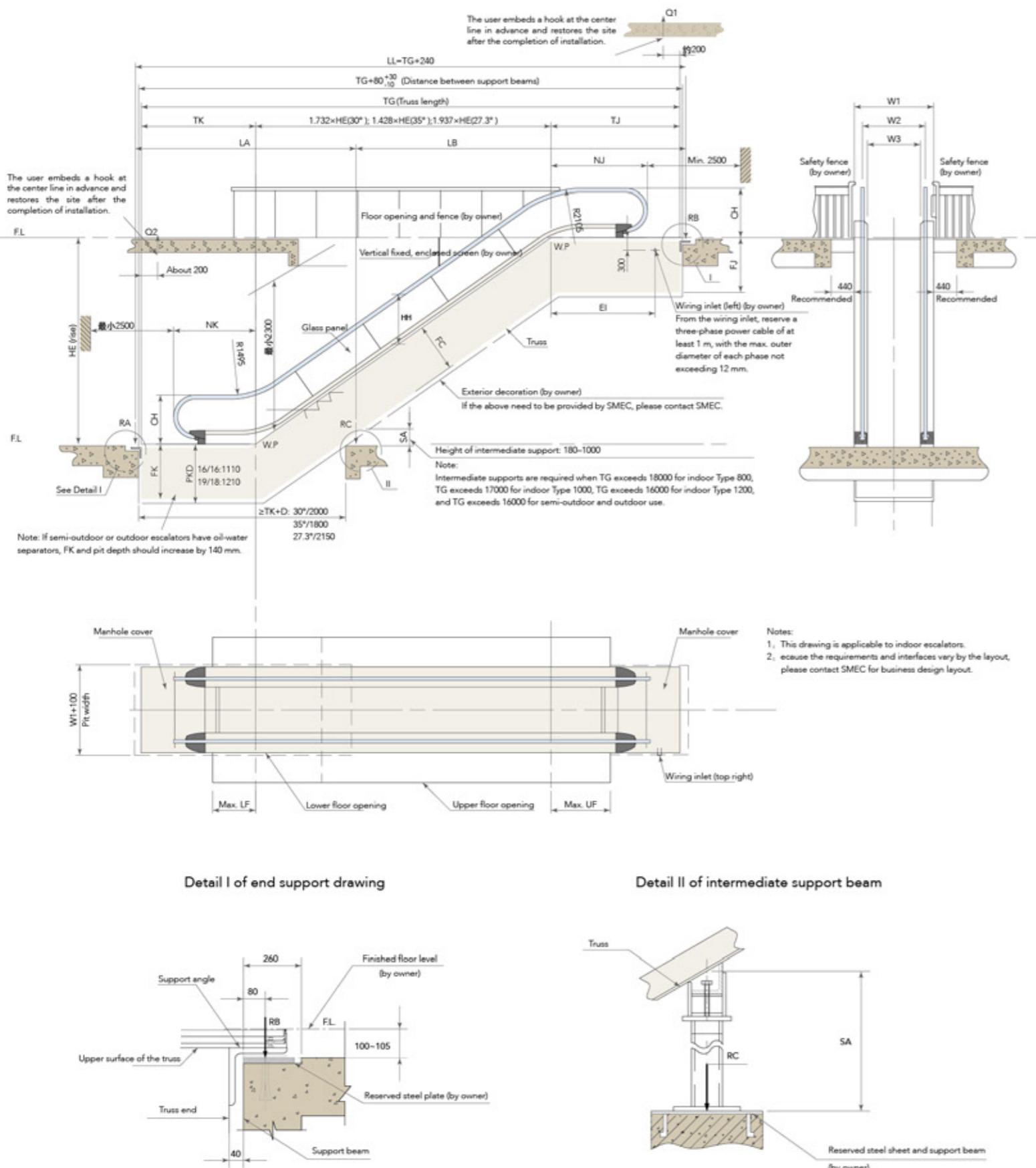
Basic Specifications

Function	Description	Code	Non-variable frequency	Variable frequency
■ Information and Display Features				
Comb Lighting	Lighting on the comb plate at the position where the steps come in and out.	L-COMB *14	○	○
Door Open Alarm	The buzzer rings when the manhole cover is opened.	DOA	●	●
LED Lighting	Use LED for lighting source.	LED	○	○
Voice Announcer (CN)	The voice announcer informs passengers of safety tips in Chinese.	AAN-S01	○	○
Voice Announcer (CN/EN)	The voice announcer informs passengers of safety tips in Chinese and English.	AAN-S02	○	○
Voice Announcer (EN)	The voice announcer informs passengers of safety tips in English.	AAN-S03	○	○
Multi-functional Operating Panel	An operating panel installed at the landing areas of the escalator, which is used to operate the escalator, set parameters, check the operation state and error code, etc.	MFP	○	○
Control Panel LCD Operating Panel	In the control panel, there is an LCD operating panel, which is used to set parameters, check the operation state and error code, etc.	CPS-LCD	●	●
Intelligent Attentive Announcer	Automatically adjust the volume of announcer according to the changing ambient volume.	IAAN *15	○	○

Notes:

- *1 For commercial use escalators and those exceeding 6 m in rise; for airport use.
- *2 Optional for commercial use escalators and those not exceeding 6 m in rise.
- *3 When auxiliary brakes are provided.
- *4 Standard for outdoor or semi-outdoor escalators.
- *5 When auto oiler is provided.
- *6 Standard when worm gear reducer is provided.
- *7 When balustrade lighting or skirt lighting is available.
- *8 Select PSB, PSM, PSP or EsPDS (PSP is non-standard).
- *9 Select SBLS or SBSP.
- *10 Optional for outdoor escalators; standard when ambient temperature is below 0°C.
- *11 Standard when heaters are provided.
- *12 Non-standard for non-variable frequency escalator.
- *13 Standard for KS-LB-II and KS-LBF-II.
- *14 Non-standard for outdoor escalators.
- *15 Intelligent terminals are required.

Item	Content	Description	
Between Moving Handrails	1200	1000	800
Between Skirt Guards	1000	800	600
Models	KS-SB-II/KS-SBF-II	Transparent tempered glass panel, no under-handrail lighting, slim handrails, max. rise 10 m	
	KS-B-II/KS-BF-II	Transparent tempered glass panel, no under-handrail lighting, common handrails, max. rise 13 m	
	KS-LB-II/KS-LBF-II	Slim	Transparent tempered glass panel, under-handrail lighting; slim handrails Non-standard confirmation required for semi-outdoor and outdoor use, max. rise 10 m
	Common	Common	Transparent tempered glass panel, under-handrail lighting; common handrails Non-standard confirmation required for semi-outdoor and outdoor use; max. rise 13 m
Application	KP-B-II/KP-BF-II	Hairline-finish stainless panel; no under-handrail lighting, max. rise 13 m	
	Commercial use		
	Airport	Applicable to airports with fewer passenger flow; non-standard confirmation required for special load requirements	
Environment	Indoor		
	Outdoor, semi-outdoor	A roof must be provided	
Drive System	Direct drive system		
	ACVVVF drive system	Optional	
Power Supply	380V 50Hz 3-phase, 5-wire	Non-standard confirmation is required for other power supply specifications and frequency	
Light Power Supply	220V 50Hz single-phase	Non-standard confirmation is required for other power supply specifications and frequency	
Handrail Height	950mm	Standard	
	1000mm	Optional	
Inclination	30°		
	35°	Only for commercial use	
	27.3°		
Rise	1400 mm ~ 13000 mm	Inclination 30°	
	1606 mm ~ 6000 mm	Inclination 35°	
	1285 mm ~ 13000 mm	Inclination 27.3°	
Rated Speed	0.4m/s	Optional for commercial use of inclination 30° and 27.3°, max. rise 10 m	
	0.5m/s	Standard, max. rise 13 m	
	0.65m/s	Optional for inclination 30° and 27.3°, max. rise 10 m	
Horizontal Movement	800mm	2 horizontal steps	
		Standard for commercial use and rise not exceeding 6 m; optional for rated speed 0.4 m/s and 0.5 m/s only	
	1200mm	3 horizontal steps	
		Standard for commercial use and rise not exceeding 6 m; standard for rise exceeding 6 m and commercial use	
Radius of Curvature of Curved Guide Rail (Upper/Lower)	1600mm	4 horizontal steps	
		Optional for commercial use and inclination 30° and 27.3°; optional for airport	
	1000mm/1000mm		
	1500mm/1000mm		
	2600mm/2000mm		



Item(mm)	Inclination	Between Moving Handrails	Horizontal Steps	Reducer Specification	Radius of curvature of curved guide rail (upper/lower)(mm)	Comb teeth of top /bottom step sprocket	Standard	Optional
Upper Truss Length (T.J)	30°	1200	2	E611101	1000/1000	16/16	2435	2436-3535
					1500/1000	16/16	2550	2551-3650
					1500/1000	19/18	2625	2626-3725
					2600/2000	19/18	2885	2886-3985
			3	FTS180.1	1000/1000	16/16	2735	2736-3835
					1500/1000	16/16	2850	2851-3950
					1500/1000	19/18	2925	2926-4025
					2600/2000	19/18	3185	3186-4285
		1000	3	E611101	1000/1000	16/16	2840	2841-3940
					1500/1000	16/16	2955	2956-4055
					1500/1000	19/18	3030	3031-4130
					2600/2000	19/18	3290	3291-4390
	35°	800	4	J611102A000	1000/1000	16/16	3140	3141-4240
					1500/1000	16/16	3255	3256-4355
					1500/1000	19/18	3330	3331-4430
					2600/2000	19/18	3590	3591-4690
			3	E611101	1500/1000	19/18	3435	3436-4535
					2600/2000	19/18	3695	3696-4795
					1500/1000	19/18	3735	3736-4835
					2600/2000	19/18	3995	3996-5095
			2	E611101	1000/1000	16/16	2935	2936-3535
					1500/1000	16/16	3050	3051-3650
					1500/1000	19/18	3125	3126-3725
					2600/2000	19/18	3385	3386-3985
	27.3°	1200	3	FTS180.1	1000/1000	16/16	3235	3236-3835
					1500/1000	16/16	3350	3351-3950
					1500/1000	19/18	3425	3426-4025
					2600/2000	19/18	3685	3686-4285
			4	E611101	1000/1000	16/16	3340	3341-3940
					1500/1000	16/16	3455	3456-4055
					1500/1000	19/18	3530	3531-4130
					2600/2000	19/18	3790	3791-4390
			3	FTS180.1	1000/1000	16/16	3640	3641-4240
					1500/1000	16/16	3755	3756-4355
					1500/1000	19/18	3830	3831-4430
					2600/2000	19/18	4090	4091-4690
			2	E611101	1500/1000	19/18	3935	3936-4535
					2600/2000	19/18	4195	4196-4795
					1500/1000	19/18	4235	4236-4835
					2600/2000	19/18	4495	4496-5095
	35°	1200	2	E611101	1000/1000	16/16	2495	2496-3595
				FTS180.1	1000/1000	16/16	2795	2796-3895
		1000	3	E611101	1000/1000	16/16	2900	2901-4000
				FTS180.1	1000/1000	16/16	3200	3201-4300
		800	2	E611101	1000/1000	16/16	2995	2996-3595
				FTS180.1	1000/1000	16/16	3295	3296-3895
			3	E611101	1000/1000	16/16	3400	3401-4000
				FTS180.1	1000/1000	16/16	3700	3701-4300
	27.3°	1200	2	E611101	1500/1000	16/16	2501	2502-3601
					1500/1000	19/18	2576	2577-3676
					2600/2000	19/18	2810	2811-3910
		1000	2	FTS180.1	1500/1000	16/16	2801	2802-3901
					1500/1000	19/18	2876	2877-3976
					2600/2000	19/18	3110	3111-4210

Handrail Rated Width



Item(mm)	Inclination	Between Moving Handrails	Horizontal Steps	Reducer Specification	Radius of curvature of curved guide rail (upper/lower)(mm)	Comb teeth of top/bottom step sprocket	Standard	Optional
Upper Truss Length (TJ)	27.3°	1200	3	E611101	1500/1000	16/16	2960	2907-4006
					1500/1000	19/18	2981	2982-4081
					2600/2000	19/18	3215	3216-4315
				J611102A000	1500/1000	16/16	3206	3207-4306
					1500/1000	19/18	3281	3282-4381
		1000	4	FTS180.1	2600/2000	19/18	3515	3516-4615
					1500/1000	19/18	3386	3387-4486
				E611101	2600/2000	19/18	3620	3621-4720
				J611102A000	1500/1000	19/18	3686	3687-4786
					2600/2000	19/18	3920	3921-5020
	800	27.3°	2	E611101	1500/1000	16/16	3001	3002-3601
					1500/1000	19/18	3076	3077-3676
					2600/2000	19/18	3310	3311-3910
				FTS180.1	1500/1000	16/16	3301	3302-3901
					1500/1000	19/18	3376	3377-3976
		3	3	E611101	2600/2000	19/18	3610	3611-4210
					1500/1000	16/16	3406	3407-4006
					1500/1000	19/18	3481	3482-4081
				FTS180.1	2600/2000	19/18	3715	3716-4315
					1500/1000	16/16	3706	3707-4306
	30°	30°	4	E611101	1500/1000	19/18	3781	3782-4381
					2600/2000	19/18	4015	4016-4615
					1500/1000	19/18	3886	3887-4486
				FTS180.1	2600/2000	19/18	4120	4121-4720
					1500/1000	19/18	4186	4187-4786
		35°	2	E611101	2600/2000	19/18	4420	4421-5020
					1000/1000	16/16	2178	2179-3278
				/	1500/1000	16/16	2178	2179-3278
					1500/1000	19/18	2253	2254-3353
					2600/2000	19/18	2484	2485-3584
Lower Truss Length (TK)	30°	/	2	/	1000/1000	16/16	2583	2584-3683
					1500/1000	16/16	2583	2584-3683
					1500/1000	19/18	2658	2659-3758
					2600/2000	19/18	2889	2890-3989
			4	/	1500/1000	19/18	3063	3064-4163
					2600/2000	19/18	3294	3295-4394
	35°	/	2	/	1000/1000	16/16	2213	2214-3313
			3	/	1000/1000	16/16	2618	2619-3718
			27.3°	/	1500/1000	16/16	2161	2162-3261
					1500/1000	19/18	2236	2237-3336
					2600/2000	19/18	2442	2443-3542
Upper Truss Depth (FJ)	/	/	2	/	1500/1000	16/16	2566	2567-3666
					1500/1000	19/18	2641	2642-3741
					2600/2000	19/18	2847	2848-3947
			3	/	1500/1000	19/18	3046	3047-4146
					2600/2000	19/18	3252	3253-4352
			4	/	1000/1000	16/16	1060	/
					1500/1000	16/16	1060	/
Upper Truss Depth (FK)	/	/	/	/	1500/1000	19/18	1270	/
					2600/2000	19/18	1270	/
Upper Truss Depth (FK)	/	/	/	/	/	16/16	1020	/
						19/18	1120	/

Item(mm)	Inclination	Between Moving Handrails	Horizontal Steps	Rise	Radius of curvature of curved guide rail (upper/lower)(mm)	Comb teeth of top/bottom step sprocket	Standard	Optional	
Middle Truss Depth(FC)	30	/	/	/	/	/	918	/	
	35	/	/	/	/	/	938	/	
	27.3	/	/	/	/	/	906	/	
Horizontal Handrail Height (CH)	30	/	/	/	/	/	950	1000	
	35	/	/	/	/	/	950	1000	
	27.3	/	/	/	/	/	950	1000	
Inclined Handrail Height (HH)	30	/	/	/	/	/	935	1005	
	35	/	/	/	/	/	989	1062	
	27.3	/	/	/	/	/	979	1013	
Upper Balustrade Length (NU)	30°	/	2	/	1000/1000	/	1759	1784	
					1500/1000	/	1874	1899	
					2600/2000	/	2134	2159	
			3	/	1000/1000	/	2164	2189	
					1500/1000	/	2279	2304	
					2600/2000	/	2539	2564	
	35°	/	4	/	1500/1000	/	2684	2709	
					2600/2000	/	2944	2969	
					1000/1000	/	1819	1844	
			3	/	1000/1000	/	2224	2249	
					1500/1000	/	1825	1850	
					2600/2000	/	2059	2084	
	27.3°	/	2	/	1500/1000	/	2230	2255	
					2600/2000	/	2464	2489	
					1500/1000	/	2635	2660	
			3	/	2600/2000	/	2869	2894	
					1000/1000	/	1502	1527	
					1500/1000	/	1502	1527	
Lower Balustrade Length (NK)	30°	/	2	/	2600/2000	/	1733	1758	
					1000/1000	/	1907	1932	
					1500/1000	/	1907	1932	
			3	/	2600/2000	/	2138	2163	
					1500/1000	/	2312	2337	
					2600/2000	/	2543	2568	
	35°	/	2	/	1000/1000	/	1537	1562	
					1000/1000	/	1942	1967	
					1500/1000	/	1485	1510	
			3	/	2600/2000	/	1691	1716	
					1500/1000	/	1890	1915	
					2600/2000	/	2096	2121	
	27.3°	/	4	/	1500/1000	/	2295	2320	
					2600/2000	/	2501	2526	
					1000/1000	/	1491	/	
Escalator Width (W1)	/	1200	/	<10m	/	/	1293	/	
	/	1000	/		/	/	1095	/	
	/	800	/		/	/	1541	/	
	/	1200	/	>10m	/	/	1343	/	
	/	1000	/		/	/	1145	/	
	/	800	/		/	/	1145	/	
Inclination			Environment		LA(mm)	LB(mm)	LC(mm)		
30°			Indoor		(TK+459)~16000	(TJ+1013)~16000	500~16000		
			Semi-outdoor/Outdoor		(TK+459)~14000	(TJ+1013)~14000	500~14000		
35°			Indoor		(TK+538)~16000	(TJ+855)~16000	/		
			Semi-outdoor/Outdoor		(TK+538)~14000	(TJ+855)~14000	/		
27.3°			Indoor		(TK+416)~16000	(TJ+1095)~16000	500~16000		
			Semi-outdoor/Outdoor		(TK+416)~14000	(TJ+1095)~14000	500~14000		

Note: When oil-water separators are available, FK should be increased by 140 mm.