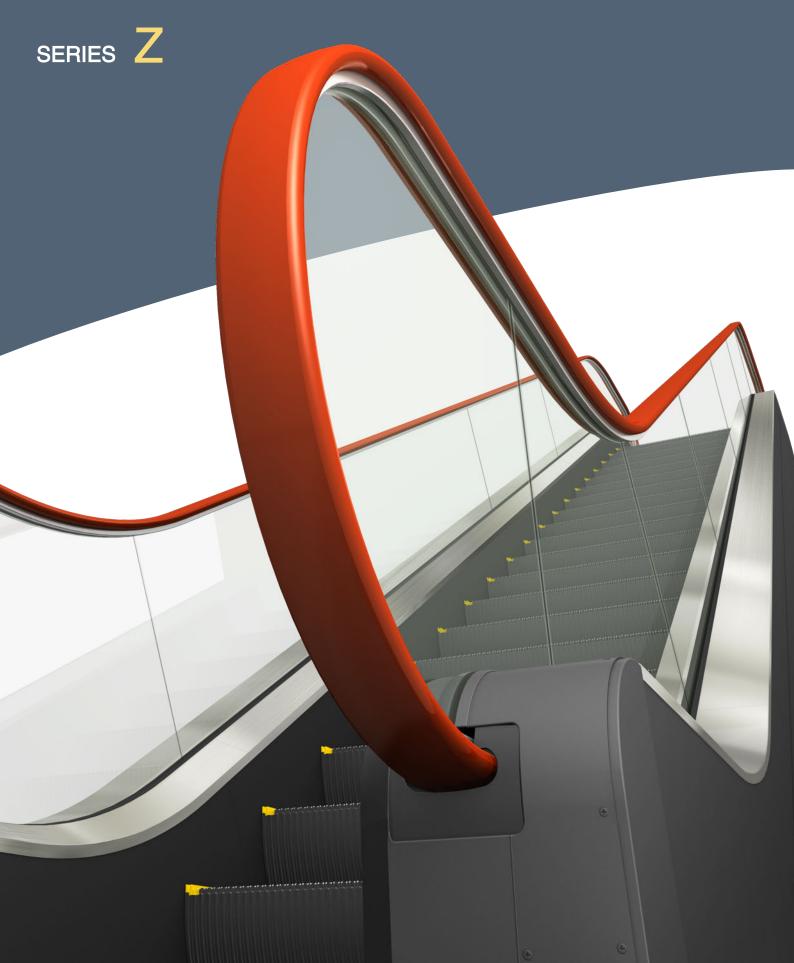
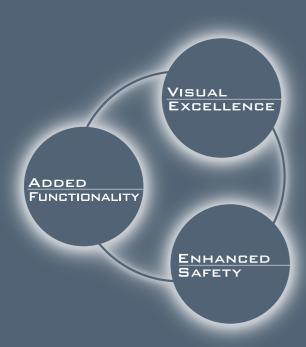




ESCALATORS



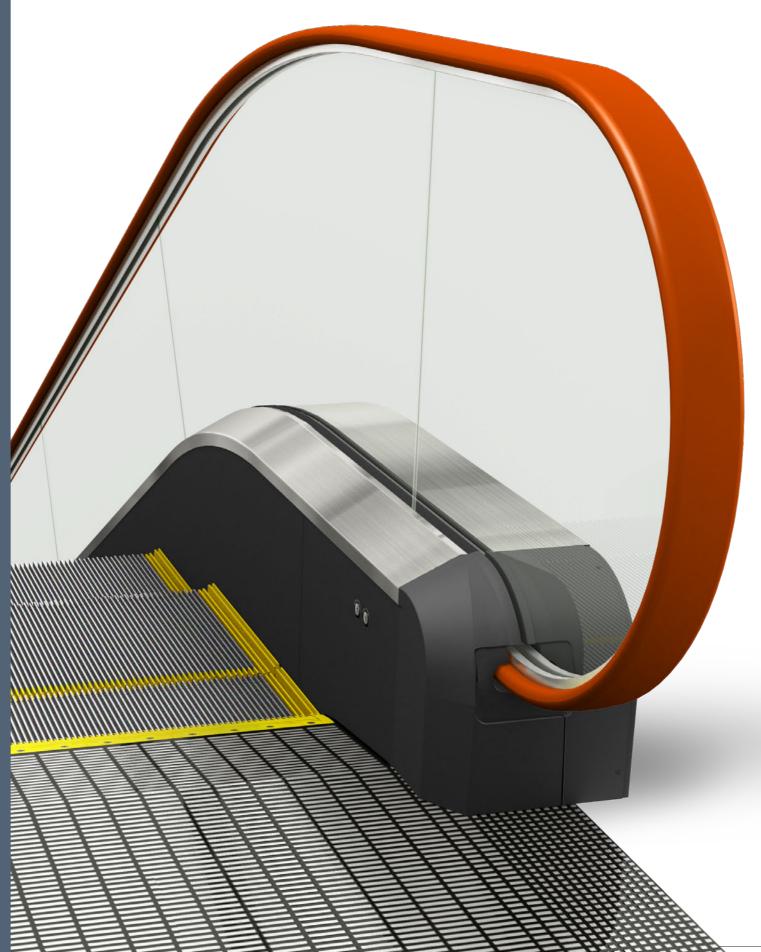
# Our new escalator Series Z offers more than just a way to carry passengers



Aesthetic elegance and flexibility are concepts expected more than ever. Our new escalator Series Z comes in a simple, yet sophisticated design, offering the utmost in flexibility to blend with any building decor. Our years of experience in safety-oriented production, based on a strong belief in the importance of safety, have led to a variety of safety features, as well as a wide range of value-added functions that help you customize your own escalators, creating uniqueness in and incomparable value for your building properties.

Our Series Z Escalator fulfills and indeed exceeds customer expectations, through the collaboration and utmost performance of visual, functional and safety elements.

Feel the elegance, high quality and comfort of the Series Z in your building.



Models for various scenes 3-4

STANDARD

VISUAL

Features that blend with architecture

rings elegance and sophistication to your building

STANDARD

ENHANCE

Safety-oriented and 7-8 customer-friendly designs

Offers enhanced safety and comfort

OPTIONAL

ADDED FUNCTIONALIT Versatile functions

to select from

Enables customization for uniqueness

OPTIONAL

Automatic Operation / Variable-Speed Operation

Standard specifications

11

Cautions for outdoor use / 13
Remote monitoring

Escalators in the graphics are based on the Japan Code, with optional Fluoropolymer Coating on Skirt Guard.



1

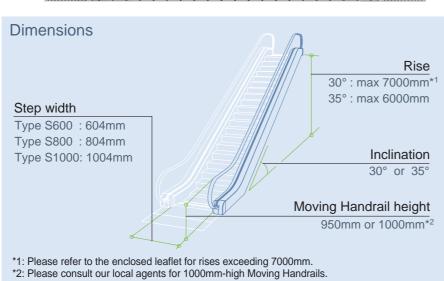
# odels for various scenes

GLASS ZS

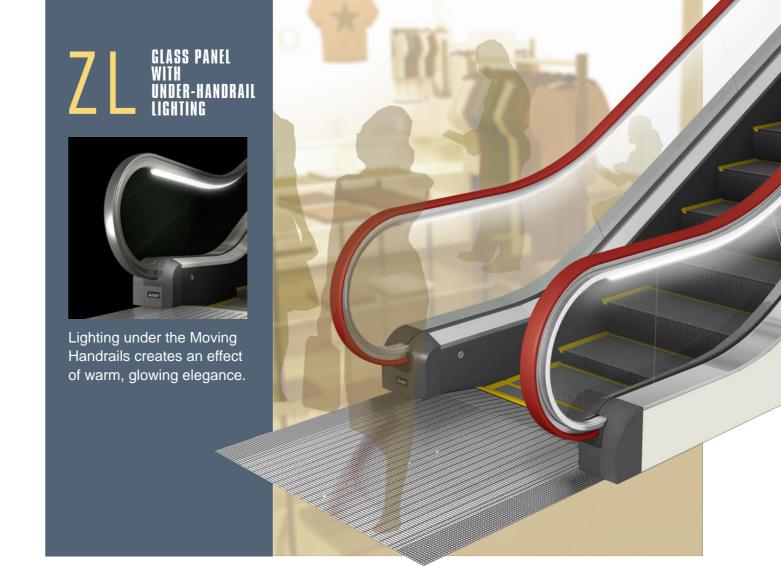


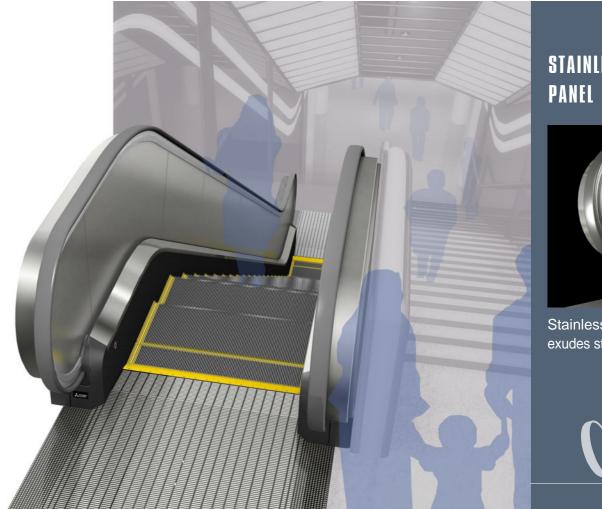
The simplest of designs blends with any building decor, adding a quiet, sophisticated air to your architecture.



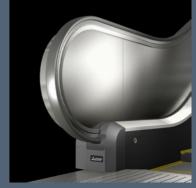


Escalators in the graphics are based on the Japan Code, with optional Fluoropolymer Coating on Skirt Guard.









Stainless steel panel that exudes strength and durability.

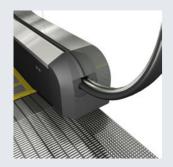






# eatures that blend with architecture

Our new Escalator Series Z serves passengers naturally and peacefully.



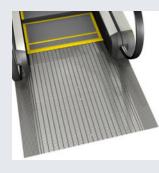
### **Rounded Handrail Inlet Cap**

Our rounded Handrail Inlet Cap streamlines with the Moving Handrails, lending a silent elegance to the boarding and landing areas.



### Screw-free **Inner Deck**

Removing screws from the Inner Deck side face not only presents an even softer, more simple look, but also removes the danger of passengers snagging their clothes.



### **Clearly-contrasted Floor Plate**

For improved visibility and smoother passenger flows, extended areas from the Moving Handrails feature different pattern with a clear contrast



### **Space Saving**

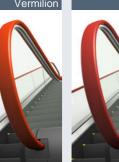
Shortening the Truss by 205mm\* requires less escalator installation space and increases freedom in building layout.

\* Compared with our Series J Escalator (for EN115), except for VVVF control.

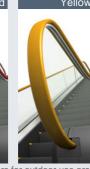
### Colors available for Moving Handrails (rubber) Only "No. 0001 Black" is standard. Other colors are optional.













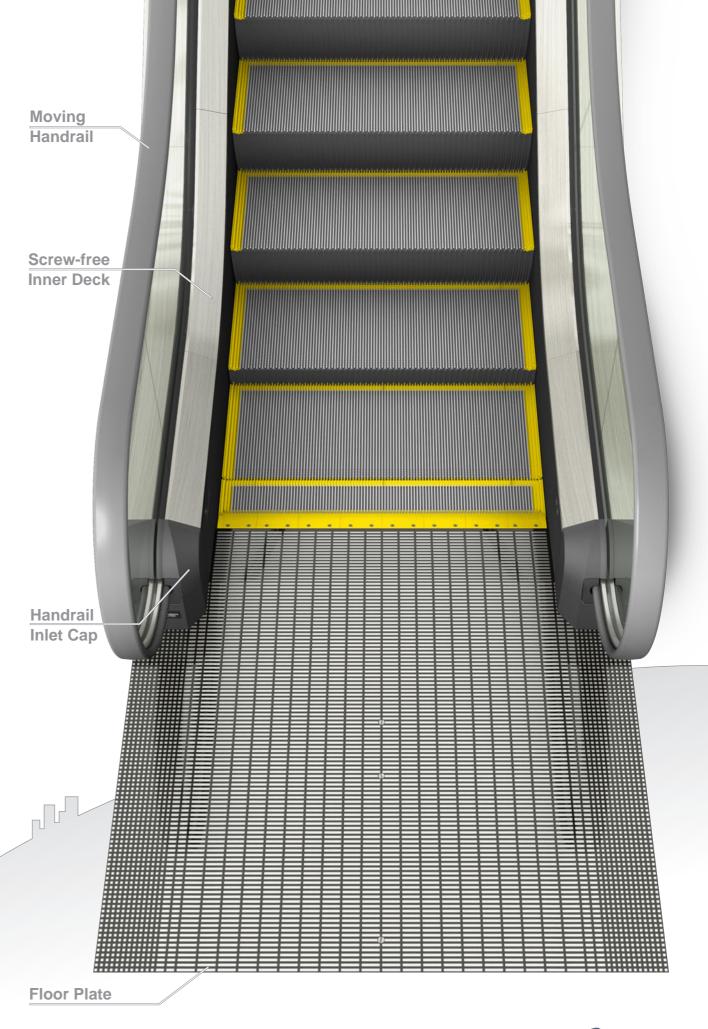












Escalators in the graphics are based on the Japan Code, with optional Fluoropolymer Coating on Skirt Guard.

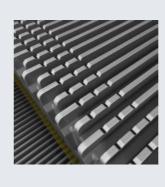


# Safety-oriented and customer-friendly designs

ENHANCED SAFETY

You'll truly feel the difference.

Safety and ride comfort are
the ultimate goals for Mitsubishi.



Step

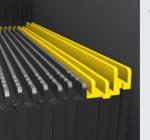
**Tiered Demarcation Line** 

**Demarcation Line** 

Comb

### Step with Anti-Slip Grooves

Grooves along the corner edge of each step improve anti-slip performance and the visibility of each step for further passenger safety.



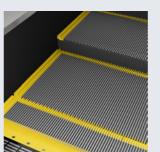
### **Tiered Demarcation Line**

Demarcations along both sides of a step are raised from the step surface, thereby preventing passengers from getting too close to the skirt guards and preventing clothes from getting caught between a step and skirt guard.



### **Comb with Smaller Angle**

Mitsubishi recognizes how critical the Comb teeth angle is: even a small gap between the Comb and Step can result in a serious accident. Putting our years of experience and research to full use, we have made the angle the smallest it can be (10° to the horizontal) to keep passengers and items such as baggage from stumbling or getting caught between the Comb and Step.



### **Brighter Demarcation Color**

Attention to the smallest details is the chief theme of Mitsubishi's safety criteria, and the color of the Demarcation Line is no exception. The yellow Step and Comb Demarcation Line comes as standard and its brightness has been improved to provide better visibility of the Step, Comb and Floor Plate than in our other models.



Escalators in the graphics are based on the Japan Code, with optional Fluoropolymer Coating on Skirt Guard.

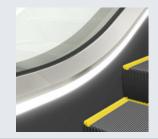
7

### ADDED **FUNCTIONALITY**

### ersatile functions to select from

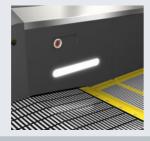
A wide range of optional features help you customize your own escalators, contributing to increased property value.

### Lighting\*1



### Skirt Guard Lighting<sup>\*2</sup>

Lighting can be provided along the entire length of the skirt guard, lighting up the step demarcation for both visual effect and passenger safety.



### **Comb Light**

Lighting provided at Comb level increases illumination, which further improves passenger safety around the Step as well as visual effect.

### Directional Indicators at boarding and landing areas\*1\*3



### **Handrail Inlet Cap LED Indicator**

LED lamps form an arrow to indicate the escalator's traveling direction for boarding, or a No-Entry sign at the landing areas.

### Warning System\*3



### Outer Deck Sensor<sup>4</sup>

When a sensor on the Outer Deck detects a passenger leaning outside the Moving Handrail, a buzzer and voice sound to alert the passenger to the potential danger of bumping against an adjacent escalator or wall.



### **Inlet Sensor**

This sensor keeps any passengers or foreign objects away from the Handrail Inlet, a warning buzzer and voice sounding when a person or object comes close to the Inlet.

### **User Friendly**



### Floor Name

Floor names can be engraved on each floor plate to help passengers quickly identify which floor they are on.



### Fluoropolymer Coating on Skirt Guard\*5

The Skirt Guard can be coated with a friction-reducing resin to reduce the chance of passengers stumbling when their shoes come in contact with the

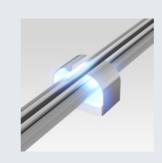
### **Clean Solutions**

### Antibacterial Polyurethane Moving Handrail 3.6.7

Our antibacterial handrails made of polyurethane suppress the growth of bacteria by mixing antibacterial agents into the polyurethane layer. The handrails are highly resistant to dirt and create a shiny, brighter look.







### Handrail Sterilizer<sup>\*6</sup>

The sterilizer continuously emits UV light to remove bacteria from the handrails while the escalator is running.



# utomatic Operation / Variable-Speed Operation

### **Inverter-controlled Automatic and Variable-Speed Operations**

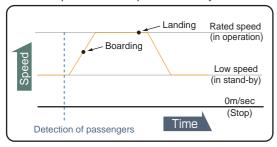
### **VVVF Control (Variable Voltage, Variable Frequency)**

Our newly-developed, innovative escalator inverter enables a unique way of controlling the escalator speed in Automatic and Variable-Speed Operations. In Variable-Speed Operation, the escalator speed can be selected according to the frequency of use, number of passengers, and more. Please consult our local agents for VVVF control.

### Post-Free Automatic Operation

Sensor Posts are no longer needed, as the sensors embedded in the Handrail Inlet Cap detect passengers and control Automatic Operation. The escalator operates at a low speed in stand-by, and gradually increases speed to the rated speed after detecting a passenger approaching the boarding area.

Escalators operate at a low speed in stand-by.





- \*1: Handrail Inlet Cap LED Indicator:
- Remains the same regardless of the operating speed during Automatic Operation.
- A separate option, and not included in Post-Free Automatic Operation.

### **Automatic Operation with Posts**



Sensor Posts located on both sides of the landing and boarding areas incorporate traditional Beam Sensors, with or without\*2 Directional Indicators allowing or denying passenger entry.

Control by AC1, instead of inverter control, can be adopted in Automatic Operation with Posts, whereby the escalator remains stationary on stand-by.

\*2: For escalators stationary in stand-by, Directional Indicators are required in countries where EN115 applies.

### Variable-Speed Operation

Two more speeds\*3, not exceeding the rated speed, can be added to your escalator to make it possible to operate at three different speeds. The speeds are selected using a key switch, set at Low or Middle for the added speeds and High for the rated speed, thereby allowing you to select the best speed for each set of traffic conditions.



<sup>\*3:</sup> For an escalator with a rated speed of 0.6m/sec, for example, additional speeds of 0.5m/sec and 0.3m/sec can be set. For more information, consult our local agents.

# tandard specifications

### Basic specifications

Please refer to the enclosed leaflet for EN115 code or Japan code

Item	S600 S800 S1000					
Models	ZS / ZL / ZP					
Codes	E	N115 *1 code / Japan cod	le			
Power supply		AC 3-phase, 50 or 60Hz				
Lighting power supply	AC	C single-phase, 50 or 60H	łz			
Rated speed		0.5m/sec				
Control system	Star	ndard: AC1 Option: VVV	′F *2			
Theoretical transport capacity *3 (persons/hr)	4500 6750 9000					
Inclination	30° / 35°					
Environment	Standard: Indoor Option *4: Semi-outdoor / Outdoor					
Automatic oiler	Standard: None Option: Available					
Min. rise (mm)	30°: 2203 35°: 2527					
Max. rise (mm)	30°: 7000 *5 35°: 6000					
Step width (mm)	604	804	1004			
Escalator width (mm)	1150 1350 155					
Between Moving Handrails (mm)	840 1040 1240					
Between Skirt Guards (mm)	610 810 1010					
Truss width (mm)	1100 1300 1500					
Floor opening (mm)	1250 1450 1650					

- \*1: The specifications differ depending on the publication year of the code. Please consult our local agents for details
- \*2: Please consult our local agents for VVVF control.
- \*3: Transport capacity varies depending on actual traffic conditions, so some dimensions and the motor capacity may have to be changed. Please consult our local agents for details if the number of passengers during peak time may equal or exceed the following numbers:

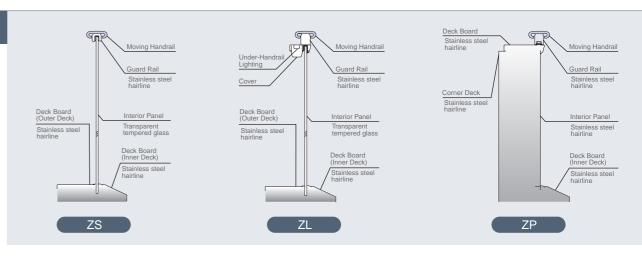
S600: 525 persons per 10 minutes

S800: 785 persons or more per 10 minutes

S1000: 1050 persons per 10 minutes

- \*4: Please consult our local agents for semi-outdoor and outdoor use. For outdoor use, please refer to "Cautions for outdoor use" on page 13.
- \*5: Please refer to the enclosed leaflet for rises exceeding 7000mm.

### Sections of Balustrade





11

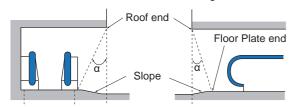
# Gautions for outdoor use / Remote monitoring

### Cautions for outdoor use

A roof must be provided over outdoor escalators. In rainy weather without a roof, passengers are in great danger of having their umbrellas blown away by the wind or falling down on the slippery Steps. In hot weather, the Moving Handrails and Deck Boards can easily heat up in the sun to a surface temperature exceeding 50°C, causing the unnecessary chance that passengers could get burnt on the overheated elements. In addition, when not covered by a roof, the life and performance of outdoor escalators seriously deteriorate, leading to shorter product life and higher cost for maintenance.

#### 1. How to define outdoor escalators

Escalators are classified into three categories: outdoor, semi-outdoor and indoor. Outdoor escalators are defined as escalators exposed to environmental factors such as wind, rain, snow or direct sunlight.



Indoor	α>70°	
Semi-outdoor	70°≥α≥ 30°	
Outdoor	α<30°	

Angle  $\alpha$  in the illustration varies depending on the direction in which the escalator is viewed. Check how the angle varies, take the smallest angle, apply it to the table above and determine the escalator type.

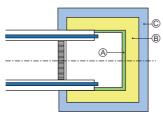
### 2. Environmental requirements for outdoor escalators

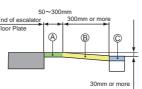
Permissible ambient temperature		-10°C (special measures are required in cold districts where the ambient temperature can drop below –10°C)	
		0°C ∼ less than 40°C	
Wind pressure		Escalators must not be exposed to direct wind pressure outside the following ranges: 490N/m² or less on the windward side, 245N/m² or less on the leeward side	
Others		Measures are required for escalators installed within a 2-kilometer radius from a shore to protect them from direct exposure to salty wind.	

### 3. Architectural requirements for outdoor escalators

- (1) Intermediate support beams must be provided.
- (2) The level of the escalator Floor Plate must be higher than the floor finish of the building to minimize the chance of rain or cleaning water running into the escalator truss. Area (B) in the illustrations to the right must be at a slope of at least 10°, and the surface of (A) must be horizontal to minimize the risk of passengers stumbling.
- (3) Drainage must be provided in the entire area marked © and covered with grating to keep away drain water.
- (4) The escalator pit must be waterproofed entirely when a whole truss is installed inside the pit. In addition, the upper pit floor must be sloped towards the lower floor to let any water in the pit drain out and down.
- (5) If there is a chance of the lower machine room getting flooded, drainage equipment, such as a drain pump, must be provided to discharge any water.
- (6) Water in the lower pit will contain lubrication oil, so a grease trap should be provided to separate the lubrication oil from the water. The capacity of the grease trap is determined according to the escalator size and maximum amount of expected rainfall.
- (7) Water may drip from the exterior panels of the escalator. Take waterproofing measures for equipment or items under the exterior panels if water is likely to cause problems or accidents.

Detailed floor plan for outdoor escalators





Please consult our local agents for outdoor use.

### Remote monitoring

13

OPTIONAL



Mitsubishi Electric's MelEye is a sophisticated Web-based elevator and escalator monitoring and control\*1 system that allows authorized personnel to respond rapidly to changing traffic patterns and other operational conditions. It improves passenger safety and reliability of your building management.



- \*1: Please note that MelEye is designed for monitoring of escalator operation, not to control the escalators remotely.
- \*2: Please consult our local agents for a brochure or further information

# MPORTANT INFORMATION

### Work not included in the escalator contract

The following items are not included in our escalator installation work, and the responsibility for carrying them out lies with the building owners or general contractors:

- Building construction and alterations associated with escalator installation
- Provision of intermediate support beams (if required)
- Provision of truss-supporting beams, including mounting plates
- Floor finishing after escalator installation
- Provision of fire-proofing and fire-prevention measures for escalator exterior materials and around escalator installation
- Provision of fire-prevention shutters (if required by local codes or regulations)
- Wiring for the escalator's main drive and lighting, from around the middle portion of the truss to the escalator's Control Unit in the upper truss
- Other wiring and electric conduits
- Provision of convenience outlets in the upper and lower truss
- Outer panel sheathing of truss
- Provision of inspection doors (lockable doors if installed in an environment where anyone could access and open the doors)
- All items for which procurement by building owners is instructed (with wording such as "by owner")

### Notes on building work

- Tolerance in distance between supporting beams: +30mm to 0 or 13/8" to 0"
- Flooring around the escalator must not be finished until the escalator is installed
- Flooring within 300mm or 12" of the escalator Floor Plate must not be finished until the Floor Plates are in place
- Sprinkler pipes or wiring for soffit lights, or any other electric conduits for items other than escalator, must not be laid inside the truss
- No walls or other parts of the building structure must be supported on the truss
- Allowable maximum weight of outer sheathing: 20kg/m<sup>2</sup> or 0.028 psi

### **Ordering information**

Please submit the following information when ordering or requesting escalator quotations:

- · Name and address of the building
- Escalator model (ZS or ZL or ZP)
- Escalator type (S1000 or S800 or S600)
- Rise (floor height) and number of floors
- Number of escalators
- Voltage and frequency of the power source for escalator's main drive and lighting
- Optional items required
- Whether or not fire-prevention shutters are required



### State-of-the-Art Factories... For the Environment. For Product Quality.

Our elevators and escalators are currently operating in approximately 90 countries around the globe. Built placing priority on safety, our elevators, escalators and building system products are renowned for their excellent efficiency, energy savings and comfort.

The technologies and skills cultivated at the Inazawa Building Systems Works in Japan and 12 global manufacturing factories are utilized in a worldwide network that provides sales, installation and maintenance in support of maintaining and improving product quality.

As a means of contributing to the realization of a sustainable society, we consciously consider the environment in business operations, proactively work to realize a low-carbon, recycling-based society, and promote the preservation of biodiversity.

#### ISO9001/14001 certification

Mitsubishi Electric Building Solutions Corporation Inazawa Building Systems Works has acquired ISO 9001 certification from the International Organization for Standardization based on a review of quality management. The plant has also acquired environmental management

The plant has also acquired environmental management system standard ISO 14001 certification.

Mitsubishi Elevator Asia Co., Ltd. has acquired ISO 9001 certification from the International Organization for Standardization based on a review of quality management.

The plant has also acquired environmental management system standard ISO 14001 certification.









### MITSUBISHI ELECTRIC BUILDING SOLUTIONS CORPORATION

HEAD OFFICE : TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN

www.MitsubishiElectric.com/elevator

▲ Safety Tips: Be sure to read the instruction manual fully before using this product.

The Series Z escalator is equipped with various safety devices that provide for safety and reliability.

### For Japan Code

●···Standard ○···Optional



A button to immediately stop the escalator in emergency situations.

### Step Motion Safety Device (CRS)

A safety device to stop the escalator when a Step has been dislocated on its riser side due to an object caught between the Steps, or between the Skirt Guard and the Step, or if an abnormality has been observed in the Step motion.

### Overload Detection Device

A safety device that stops the escalator if overload has been detected by abnormal current or temperature of the drive motor.

### Drive Chain Safety Device (DCS)

A safety device that stops the escalator if the Drive Chain breaks or stretches beyond an allowable limit.

### Speed Governor (GOV)

A safety device that stops the escalator if the speed significantly decreases or increases to 120% of the rated speed.

### Electromagnetic Brake

A safety device that stops the escalator in the case of power failure, or if any safety device or the Emergency Stop Button has been activated.

### ○ Handrail Speed Safety Device (HSS)

A safety device that stops the escalator if the Moving Handrails fail to synchronize with the Steps due to slippage, loosening or breakage of the Moving

#### Step Level Device (SRS)

A safety device that stops the escalator if the horizontal level of a Step has dropped.

#### Skirt Guard Safety Device (SSS)

A safety device to stop the escalator if a shoe or other item becomes trapped in the gap between the Step and Skirt Guard.

### ○ Comb-Step Safety Switch (CSS)

A safety device that stops the escalator if a foreign object becomes trapped in the gap between the Step

### Handrail Guard Safety Device (HGS)

1) Inlet Guard

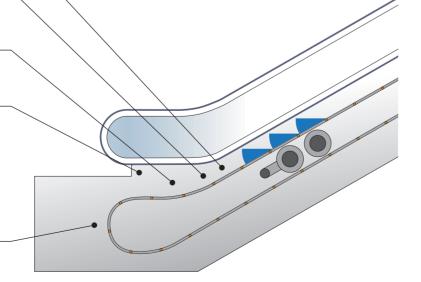
A guard made of soft rubber, which fits over the outside of the Moving Handrail where it enters the Balustrade to keep fingers, hands or foreign objects away from the Moving Handrail opening.

2) Inlet Guard Switch

A safety device that stops escalator when physical contact is made with the inlet.

### Step Link Safety Device (SLS)

A safety device that stops the escalator if the Step Link breaks or stretches beyond an allowable limit.







Rise (mm): 7001 - 13000

### Basic specifications

Item	S600	S1000		
Models	ZS / ZL / ZP			
Codes	Japan	code		
Power supply	AC 3-phase	, 50 or 60Hz		
Lighting power supply	AC single-pha	se, 50 or 60Hz		
Rated speed	0.5m	n/sec		
Control system	Standard: AC1	Option: VVVF		
Transport capacity*1 (persons/hr)	4500 9000			
Inclination	30°			
Environment	Standard: Indoor Option*2: Semi-outdoor / Outdoor			
Automatic oiler	Standard: None Option: Available			
Min. rise (mm)	7001			
Max. rise (mm)	ZS / ZP: 13000 ZL: 9000 *3			
Step width (mm)	604	1004		
Escalator width (mm)	1150 1550			
Between Moving Handrails (mm)	840 1240			
Between Skirt Guards (mm)	610	1010		
Truss width (mm)	1100	1500		
Floor opening (mm)	1250 1650			

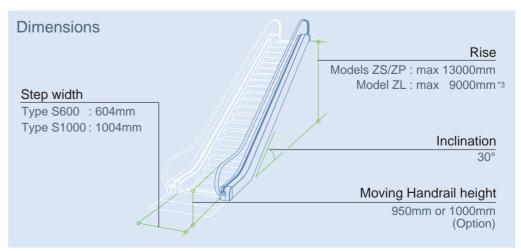
\*1: Transport capacity varies depending on actual traffic conditions, so some dimensions and the motor capacity may have to be changed. Please consult our local agents for details if the number of passengers during peak time may equal or exceed the following numbers:

S600: 500 persons per 10 minutes

S1000: 1000 persons per 10 minutes

\*2: Please consult our local agents for semi-outdoor and outdoor use. For outdoor use, please refer to "Cautions for outdoor use" on page 13.

\*3: Please consult our local agents for rise ranging from 7239mm to 9000mm.





## pecifications

### ● ··· Standard ○ ··· Optional N/A ··· Not applicable

			Standard Optional No.	. 1101 аррі	.50010
Division		Spec	ification	ZS ZL	ZP
	Indoor			•	
Environment	Semi-outdoor			0	
	Outdoor			O N/A	
	AC1			•	
	Inverter (VVVF)			0,	<b>'</b> 1
Control	Automatic Operat	ion with Posts (	Stationary in stand-by, AC1)	0	
system	Automatic Operat	ion with Posts (	Slow operation in stand-by, Inverter)	0	
	Post-Free Automa	atic Operation (	Slow operation in stand-by, Inverter)	0	
	Stop-Buzzer Key	Switch		•	
	Anti-Slip Floor Pla	ite		•	
	Step with Anti-Slip	Grooves		•	
	Demarcation Line	!		•	
0.6.	Tiered Demarcation	on Line		•	
Safety	Step Demarcation	Lighting		0	
features	Comb Light	0 0		0	
	Three Horizontal	Steps		0	
			drail Inlet (Inlet Sensor)	0,	*2
			(Outer Deck Sensor)	O*2	N/A
			nlet Cap (Handrail Inlet Cap LED Indicator)		*2 *3
	Balustrade		empered glass panel		N/A
	(See page 12 for	Under-Handra		N/A	N/A
	sections.)		el hairline panel	N/A	1071
	Skirt Guard	Stainless stee		10/1	
	OKIIT Guard	Fluoropolyme			
		Skirt Guard Li		O*4 N/A	O*4
	Deck Board	Stainless stee	0 0	U 4 IVA	10 4
	Step		by Step Tread		
	Steb		by Cleat Riser		
		Yellow Dema	·		
Finish and	Floor Plate		anel (Embossed stainless steel)		
decorative	1 loor r lato	Floor Name	(2.11.200000 0.00.1)	1 0	
components		Comb			
		Extension of I	Floor Plate		
			f adjacent Floor Plates	0	
	Moving Handrail	Rubber	No. 0001 (Black)		
	I Worling Haridian	Rubbei	No. 0502 to 0508 (See page 5 for colors.)		
	Antibacterial	Polyurethana *2	No. 9001 to 9010 (See page 9 for colors.)	+	
	Moving	Polyuletilalie 2	140. 9001 to 9010 (See page 9 for colors.)		
	Handrail *5*6				
	Handrail Inlet Cap	Plastic	1		
	Handrail Sterilizer	*5		1 0	
Others	MelEye			0	
	Automatic oiler			1 0	

- \*1: Please consult our local agents for VVVF control.
- \*2: Not applicable to outdoor use.
- \*3: Installed only on the right-side Handrail Inlet Cap (when viewed from the boarding and landing areas).
- \*4: Not applicable to semi-outdoor and outdoor use.

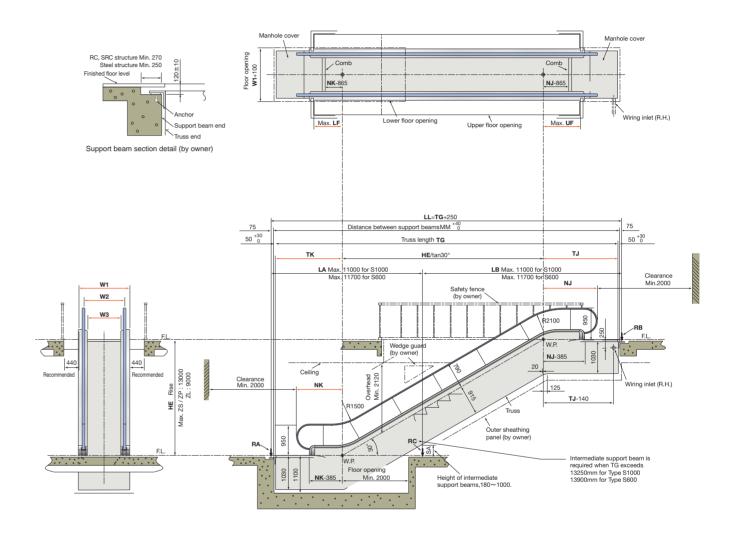
  \*5: Please consult our local agents if you require Handrail Sterilizer or Antibacterial Moving Handrail.

  \*6: Not applicable in some countries. Please consult our local agents for details.



Escalators in the graphics are based on the Japan Code, with optional Fluoropolymer Coating on Skirt Guard.

### (Unit: mm)



Please consult our local agents for:

- VVVF control (Please note that TJ may increase from that shown.)
- Reaction force, RA, RB, RC etc.

### ■Standard dimensions

Туре	S600	S1000
W1 (Escalator Width)	1150	1550
W2 (Between Moving Handrails)	840	1240
W3 (Between Skirt Guards)	610	1010

Horizontal Steps	LF	UF	NK	NJ	TK	TJ
1.5 Steps(Nominal)*	850	1100	1385	1635	2015	2265
3 Steps	1440	1725	1975	2260	2605	2890

<sup>\*</sup>Please consult our local agents for the actual number of steps.



The Series Z escalator is equipped with various safety devices that provide for safety and reliability.

### For EN115 Code

●···Standard ○···Optional



A button to immediately stop the escalator in emergency situations.

### Step Motion Safety Device (CRS)

A safety device to stop the escalator when a Step has been dislocated on its riser side due to an object caught between the Steps, or between the Skirt Guard and the Step, or if an abnormality has been observed in the Step motion.

### Overload Detection Device

A safety device that stops the escalator if overload has been detected by abnormal current or temperature of the drive motor.

### Drive Chain Safety Device (DCS)

A safety device that stops the escalator if the Drive Chain breaks or stretches beyond an allowable limit.

### Speed Governor (GOV)

A safety device that stops the escalator if the speed significantly decreases or increases to 120% of the rated speed.

### Electromagnetic Brake

A safety device that stops the escalator in the case of power failure, or if any safety device or the Emergency Stop Button has been activated.

### ○ Handrail Speed Safety Device (HSS)

A safety device that stops the escalator if the Moving Handrails fail to synchronize with the Steps due to slippage, loosening or breakage of the Moving Handrails.

#### Auxiliary brake

A safety device that stops the escalator if the speed exceeds the rated speed, or before the Steps' traveling direction changes due to an abnormality such as breakage of the Drive Chain.

### Step Level Device (SRS)

A safety device that stops the escalator if the horizontal level of a Step has dropped.

#### Skirt Guard Safety Device (SSS)

A safety device to stop the escalator if a shoe or other item becomes trapped in the gap between the Step and Skirt Guard.

### Comb-Step Safety Switch (CSS)

A safety device that stops the escalator if a foreign object becomes trapped in the gap between the Step

### Handrail Guard Safety Device (HGS)

1) Inlet Guard

A guard made of soft rubber, which fits over the outside of the Moving Handrail where it enters the Balustrade to keep fingers, hands or foreign objects away from the Moving Handrail opening.

2) Inlet Guard Switch

A safety device that stops escalator when physical contact is made with the inlet.

### Step Link Safety Device (SLS)

A safety device that stops the escalator if the Step Link breaks or stretches beyond an allowable limit





Rise (mm): 7001 - 13000

### Basic specifications

Item	S600	S1000		
Models	ZS / ZL / ZP			
Codes	EN115	5 code		
Power supply	AC 3-phase	, 50 or 60Hz		
Lighting power supply	AC single-pha	se, 50 or 60Hz		
Rated speed	0.5m	n/sec		
Control system	Standard: AC1	Option: VVVF		
Transport capacity*1 (persons/hr)	4500 9000			
Inclination	30°			
Environment	Standard: Indoor Option*2: Semi-outdoor / Outdoor			
Automatic oiler	Standard: None Option: Available			
Min. rise (mm)	7001			
Max. rise (mm)	ZS / ZP: 1300	0 ZL: 9000 *3		
Step width (mm)	604	1004		
Escalator width (mm)	1150	1550		
Between Moving Handrails (mm)	840 1240			
Between Skirt Guards (mm)	610 1010			
Truss width (mm)	1100	1500		
Floor opening (mm)	1250 1650			

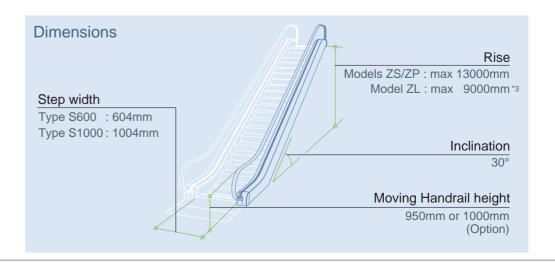
\*1: Transport capacity varies depending on actual traffic conditions, so some dimensions and the motor capacity may have to be changed. Please consult our local agents for details if the number of passengers during peak time may equal or exceed the following numbers:

S600: 500 persons per 10 minutes

S1000: 1000 persons per 10 minutes

\*2: Please consult our local agents for semi-outdoor and outdoor use. For outdoor use, please refer to "Cautions for outdoor use" on page 13.

\*3: Please consult our local agents for rise ranging from 7239mm to 9000mm.





# pecifications

### ● ··· Standard ○ ··· Optional N/A ··· Not applicable

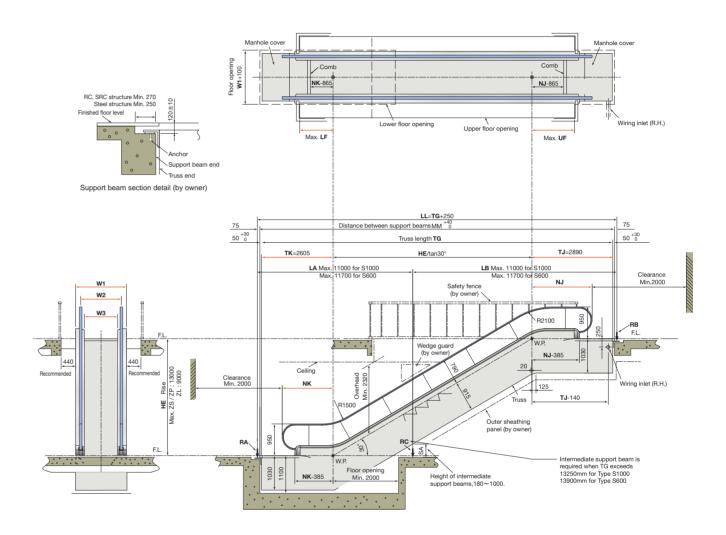
Indoor   Semi-outdoor   Outdoor   AC1	○ ○ N/A ○
Outdoor AC1	
AC1	○ N/A ○
Control Inverter (VVVF)	○*1
I Automatic Operation with Posts (Stationary in stand	d-by, AC1)
Automatic Operation with Posts (Slow operation in	stand-by, Inverter)
Post-Free Automatic Operation (Slow operation in	stand-by, Inverter)
Stop-Buzzer Key Switch	
Anti-Slip Floor Plate	•
Step with Anti-Slip Grooves	•
Demarcation Line	•
Safety Tiered Demarcation Line	•
features Step Demarcation Lighting	0
Comb Light	0
Three Horizontal Steps	•
Warning System on Moving Handrail Inlet (Inlet Se	,
Warning System on Outer Deck (Outer Deck Senso	
Directional Indicator on Handrail Inlet Cap (Handrail In	nlet Cap LED Indicator) 0*2 *3
Balustrade Transparent tempered glass pa	nnel N/A
(See page 12 for Under-Handrail Lighting	N/A N/A
sections.) Stainless steel hairline panel	N/A •
Skirt Guard Fluoropolymer Coating	
Skirt Guard Lighting	○*4   N/A   ○*4
Deck Board Stainless steel hairline	•
Step Aluminum alloy Step Tread	
Aluminum alloy Cleat Riser	
Yellow Demarcation Line	
Finish and Floor Plate Decorative Panel (Embossed st	
decorative Floor Name	0
components	
Extension of Floor Plate	0
Connection of adjacent Floor Pl	
Moving Handrail Rubber No. 0001 (Black	
	08 (See page 5 for colors.)
Antibacterial Polyurethane *2 No. 9001 to 901 Moving Handrail *5*6	(See page 9 for colors.)
Handrail Inlet Cap Plastic	•
Handrail Sterilizer *5	0
Others MelEye	0
Automatic oiler	0

- \*1: Please consult our local agents for VVVF control.
- \*2: Not applicable to outdoor use.
  \*3: Installed only on the right-side Handrail Inlet Cap (when viewed from the boarding and landing areas).
  \*4: Not applicable to semi-outdoor and outdoor use.
- \*5: Please consult our local agents if you require Handrail Sterilizer or Antibacterial Moving Handrail.
- \*6: Not applicable in some countries. Please consult our local agents for details.



Escalators in the graphics are based on the Japan Code, with optional Fluoropolymer Coating on Skirt Guard.

### (Unit: mm)



Please consult our local agents for:

- VVVF control (Please note that TJ may increase from that shown.)
- Reaction force, RA, RB, RC etc.

### ■Standard dimensions

Туре	S600	S1000
W1 (Escalator Width)	1150	1550
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Horizontal Steps	LF	UF	NK	NJ
3 Steps	1440	1725	1975	2260



eh2