



for a greener tomorrow

Quality
inMotion



**MITSUBISHI
ELECTRIC**

Changes for the Better

ESCALATORS
For USA

S
series

Enhanced energy-efficiency, safety and design contextualism drive forward our mission to create the escalators of the future, utilizing our advanced technologies.



Principle

Based on our policy, "Quality in Motion," we provide elevators and escalators that will satisfy our customers with high levels of comfort, efficiency, ecology and safety.

Quality in Motion

Comfort

Efficiency

Ecology

Safety

Mitsubishi Electric elevators, escalators and building management systems are always evolving, helping achieve our goal of being the No.1 brand in quality. In order to satisfy customers in all aspects of comfort, efficiency and safety while realizing a sustainable society, quality must be of the highest level in all products and business activities, while priority is place on consideration for the environment. As the times change, Mitsubishi Electric promises to utilize the collective strengths of its advanced and environmental technologies to offer its customers safe and reliable products while contributing to society.

We strive to be green in all of our business activities.

We take every action to reduce environmental burden during each process of our elevators' and escalators' lifecycle.



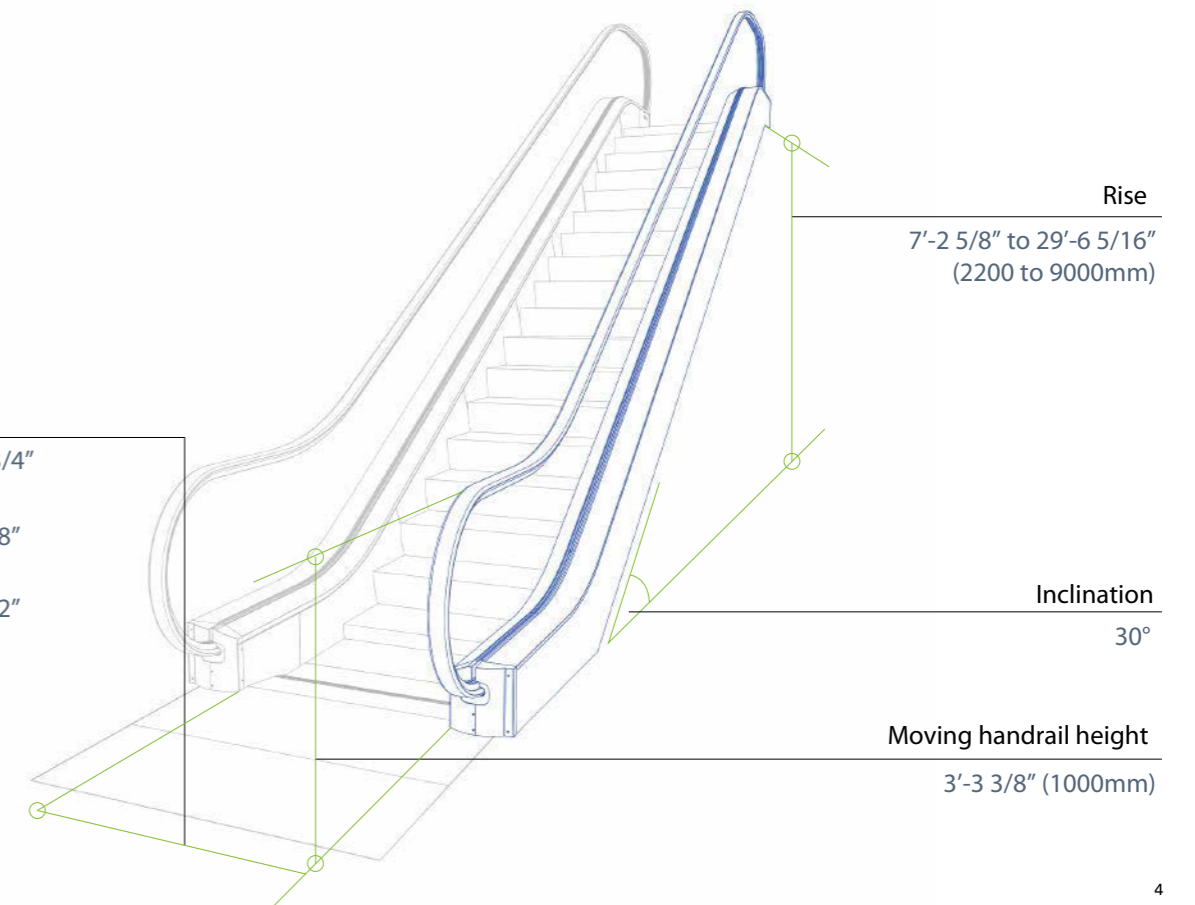
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Dimensions

Step width

- Type S24": 1'-11 3/4" (S600: 604mm)
- Type S32": 2'-7 5/8" (S800: 804mm)
- Type S40": 3'-3 1/2" (S1000: 1004mm)



Models for Various Scenes

Simple designs and stylish curves matched to diverse settings



Glass Panel SAS



Stainless-steel Panel SAP

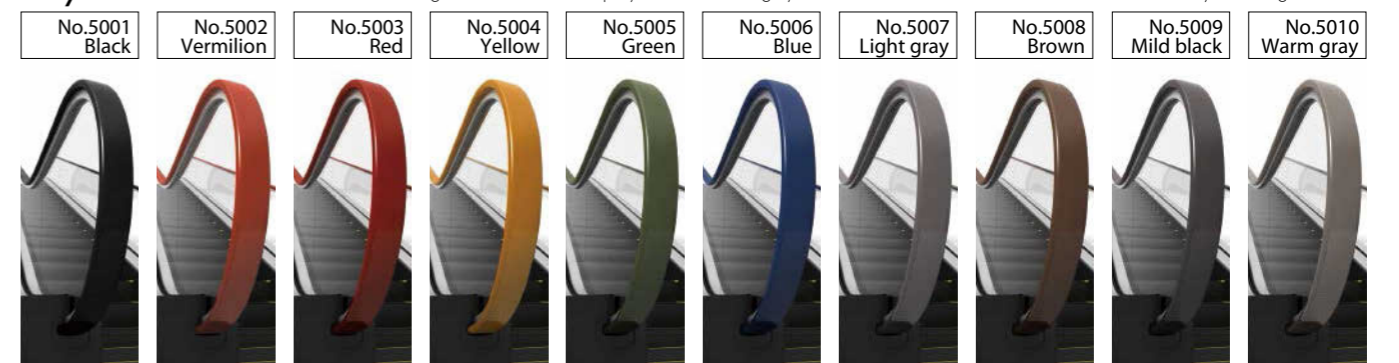
Moving Handrails^{*1,*2}

Rubber Standard



Standard ——— Optional

Polyurethane Optional Moving handrails made of polyurethane are highly resistant to dirt on their surface and create a shiny and brighter look.



Notes:

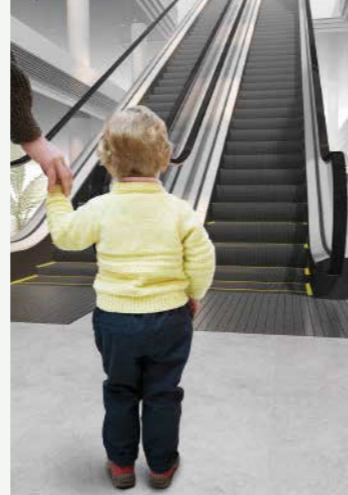
*1: Handrail colors for outdoor use are different from those shown. Please contact our local agents for details.

*2: Actual handrail colors may differ slightly from those shown.

Safety

Features Supporting the Safety of All Users

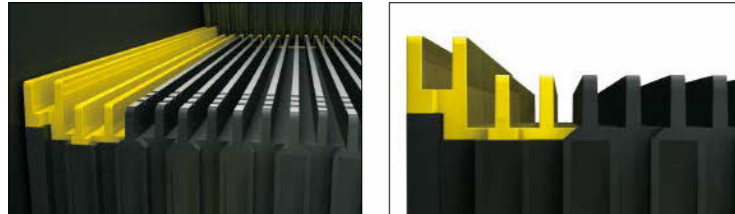
Various features that ensure the safety of all users from the elderly to children and support users in boarding and getting off escalators smoothly



Tiered Demarcation Line

Standard

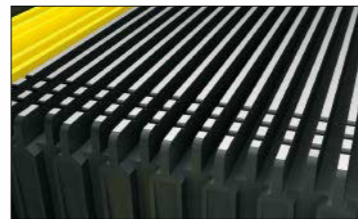
Demarcations along both sides of a step are raised from the step surface, providing enhanced safety.



Step with Anti-Slip Grooves

Standard

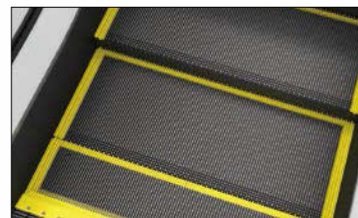
Grooves along the corner edge of each step improve anti-slip performance and the visibility of each step for further passenger safety.



Brighter Demarcation Color

Standard

The brightness of the yellow demarcation lines has been improved to provide better visibility.



Low-Friction Material on Skirt Guard

Standard

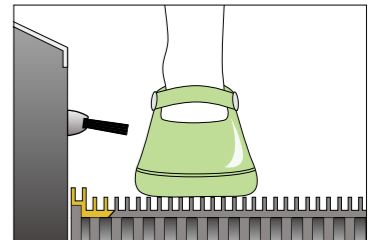
The skirt guards have a special painting/coating on the surface, ensuring a low coefficient of friction and minimizing the risk of items getting caught.



Skirt Brush

Optional *1

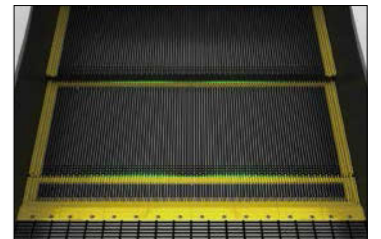
Skirt brushes installed on the skirt guard prevent passengers' clothes or shoes from getting caught between the step and the skirt guard.



• Comb Light • Step Demarcation Lighting

LED Optional
LED Optional

Lighting provided at comb level and under the steps improves passenger safety at boarding and landing areas.



Comb with Smaller Angle

Standard

We have made the angle the smallest it can be to keep passengers from tripping at boarding and landing areas.



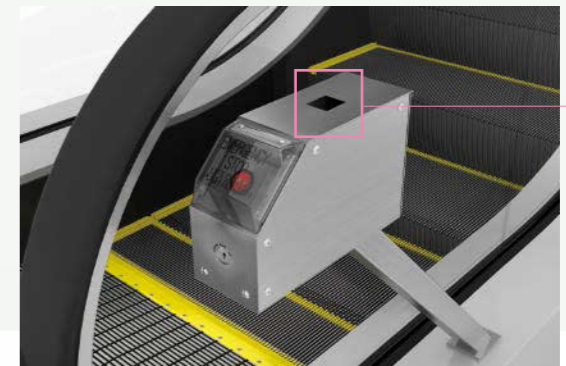
Note:

*1: Please note that passengers' clothes or shoes may be dirtied if the brushes get dirty after a long period of use.

Comfort

Functional Beauty Inspired by Users

Universal designs that pursue true user-friendliness and smart design features based on maximum consideration of users



Fault Indicator

LED Optional

If a fault occurs on the escalator, the fault indicator displays the fault code, and the operation manager can judge whether the operation can be resumed by the color of the lamp indicated next to the fault code. The indicator displays the operation speed in normal operation.

Example of indication:

At fault occurrence

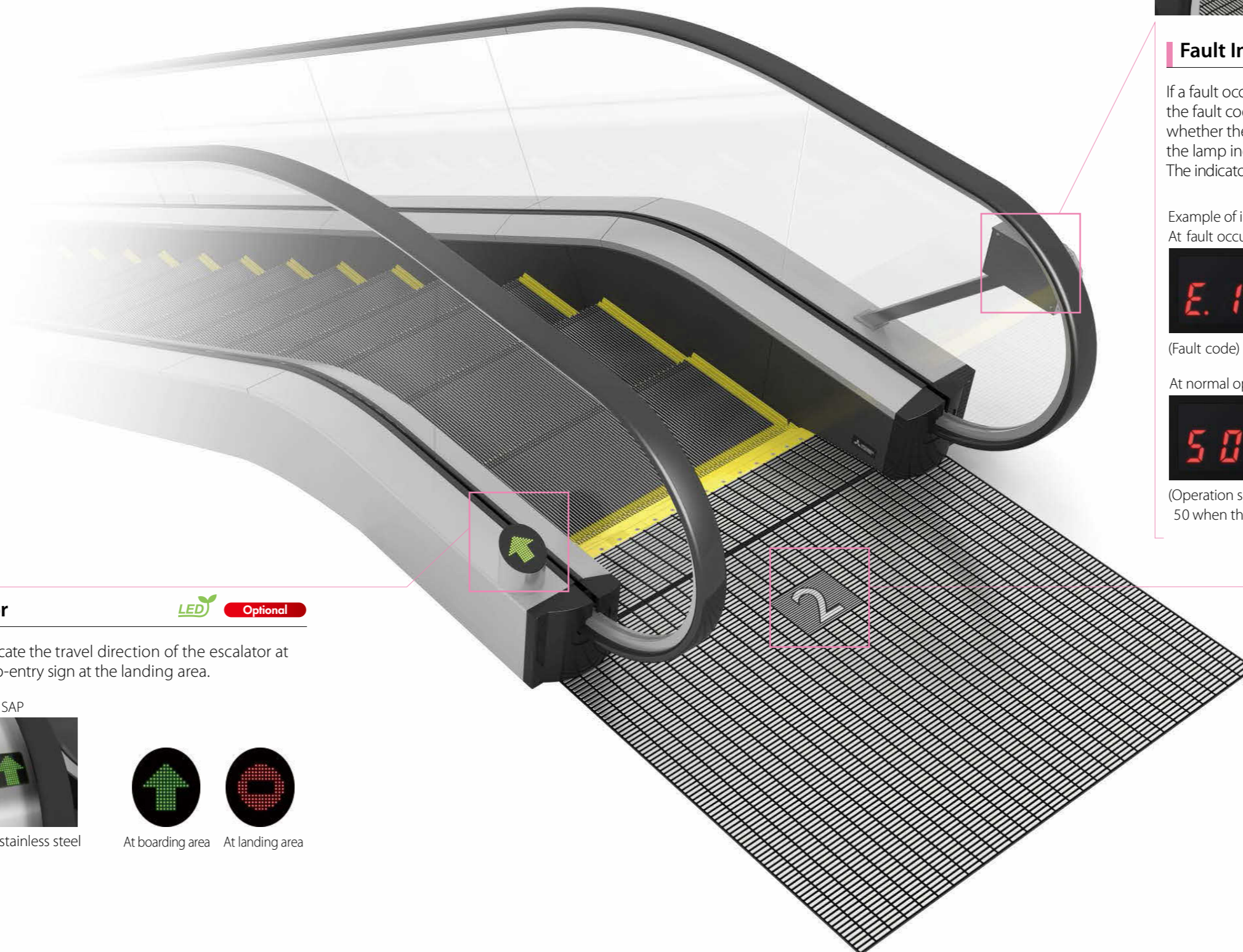


(Fault code)

At normal operation



(Operation speed; for example, 50 when the operation speed is 100fpm [0.5m/sec])



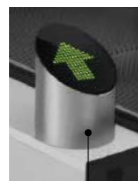
Direction Indicator

LED Optional

LEDs form an arrow to indicate the travel direction of the escalator at the boarding area, or a no-entry sign at the landing area.

SAS

SAP



Hairline-finished stainless steel



At boarding area

At landing area

Floor Name

Optional

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



Specifications

Basic specifications

Item	S24" (S600)	S32" (S800)	S40" (S1000)
Models	SAS/SAP		
Codes	ASME A17.1		
Power supply	AC 3-phase, 60Hz		
Lighting power supply	AC single-phase, 60Hz		
Rated speed	100fpm (0.5m/sec)		
Control system	Standard: AC1		
Theoretical transport capacity (*1)	4500	6750	9000
Inclination	30°		
Environment	Standard: Indoor, Optional: Semi-outdoor / Outdoor (*2)		
Min. rise (mm)	7'-2 5/8" (2200mm)		
Max. rise (mm)	29'-6 5/16" (9000mm)		
Step width (mm)	1'-11 3/4" (604mm)	2'-7 5/8" (804mm)	3'-3 1/2" (1004mm)
Escalator width (mm)	3'-9 1/4" (1150mm)	4'-5 1/8" (1350mm)	5'-1" (1550mm)
Between moving handrails (mm)	2'-9 1/16" (840mm)	3'-4 15/16" (1040mm)	4'-0 13/16" (1240mm)
Between skirt guards (mm)	1'-11 15/16" (608mm)	2'-7 13/16" (808mm)	3'-3 11/16" (1008mm)
Truss width (mm)	3'-7 5/16" (1100mm)	4'-3 3/16" (1300mm)	4'-11 1/16" (1500mm)
Floor opening (mm)	4'-1 3/16" (1250mm)	4'-9 1/16" (1450mm)	5'-4 15/16" (1650mm)

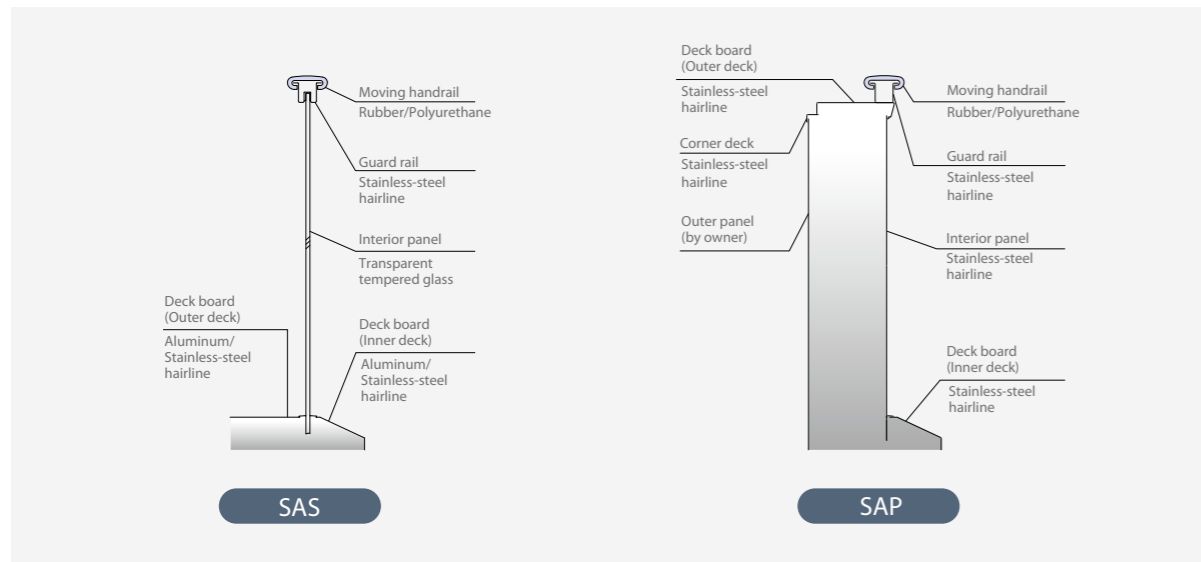
Notes:

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

S24" (S600): 500 persons per 10 minutes.
 S32" (S800): 750 persons per 10 minutes.
 S40" (S1000): 1000 persons per 10 minutes.

*2: Please contact your local Mitsubishi Electric sales agent for semi-outdoor and outdoor use. For outdoor use, please refer to "Notes for Outdoor Use" on page17.

Sections of the balustrade



Applications

●: Standard, ○: Optional N/A: Not applicable

Division	Specification	Indoor / Semi-outdoor (*1)			
		SAS	SAP		
Control system	AC1: Manual key switch operation	●	●		
Horizontal steps	2 horizontal steps	●	●		
Indicator	Direction indicator (LED)	○	○		
	Fault indicator (LED)	○	○		
Finish and decorative components	Interior panel (See page 11 for the sections of the balustrade.)	Transparent tempered glass	●	N/A	
		Stainless-steel, hairline-finish	N/A	●	
	Skirt guard	Low-friction paint finish (black)	●	●	
		Skirt brush	○	○	
	Deck board	Inner deck	Aluminum	●*2	N/A
		Outer deck	Stainless-steel, hairline-finish	○	●
	Step	Aluminum	●*2	N/A	
		Stainless-steel, hairline-finish	○	●	
		Aluminum alloy step tread (Black)	●	●	
		Aluminum alloy cleat riser (Black)	●	●	
Floor plate	Step with anti-slip grooves	●	●		
	Yellow demarcation line	●	●		
	Embossed stainless-steel plate (with black-paint grooves)	●	●		
	Floor name (with black-paint grooves)	○	○		
Comb	Extension of floor plate	○	○		
	Connection of adjacent floor plates	○	○		
Others	Comb	Molded resin (yellow)	●	●	
	Moving handrail (See page 5 for the colors.)	Rubber	No. 0001 (black)	○	○
		Polyurethane	No. 0502 to 0508	○	○
			No. 5001 (black)	○	○
	Handrail inlet cap	Resin (black)	○	○	
MeEye		○	○		
Automatic oiler		○	○		

Notes:

*1: Please contact your local Mitsubishi Electric sales agent for outdoor use.

*2: The aluminum-finish deck board may not be available depending on the factory.



Safety Devices

Various safety devices ensuring high levels of safety and reliability

1 Handrail Entry Device (HGS) (Handrail Guard Safety Device)

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

2 Emergency Stop Button (E-STOP)

A button to immediately stop the escalator in emergency situations

3 Comb-Step Impact Device (CIS)

A safety device that stops the escalator if a horizontal or vertical movement of a comb is detected due to an entrapped foreign object or the impact from external forces

4 Skirt Obstruction Device (SSS) (Skirt Guard Safety Device)

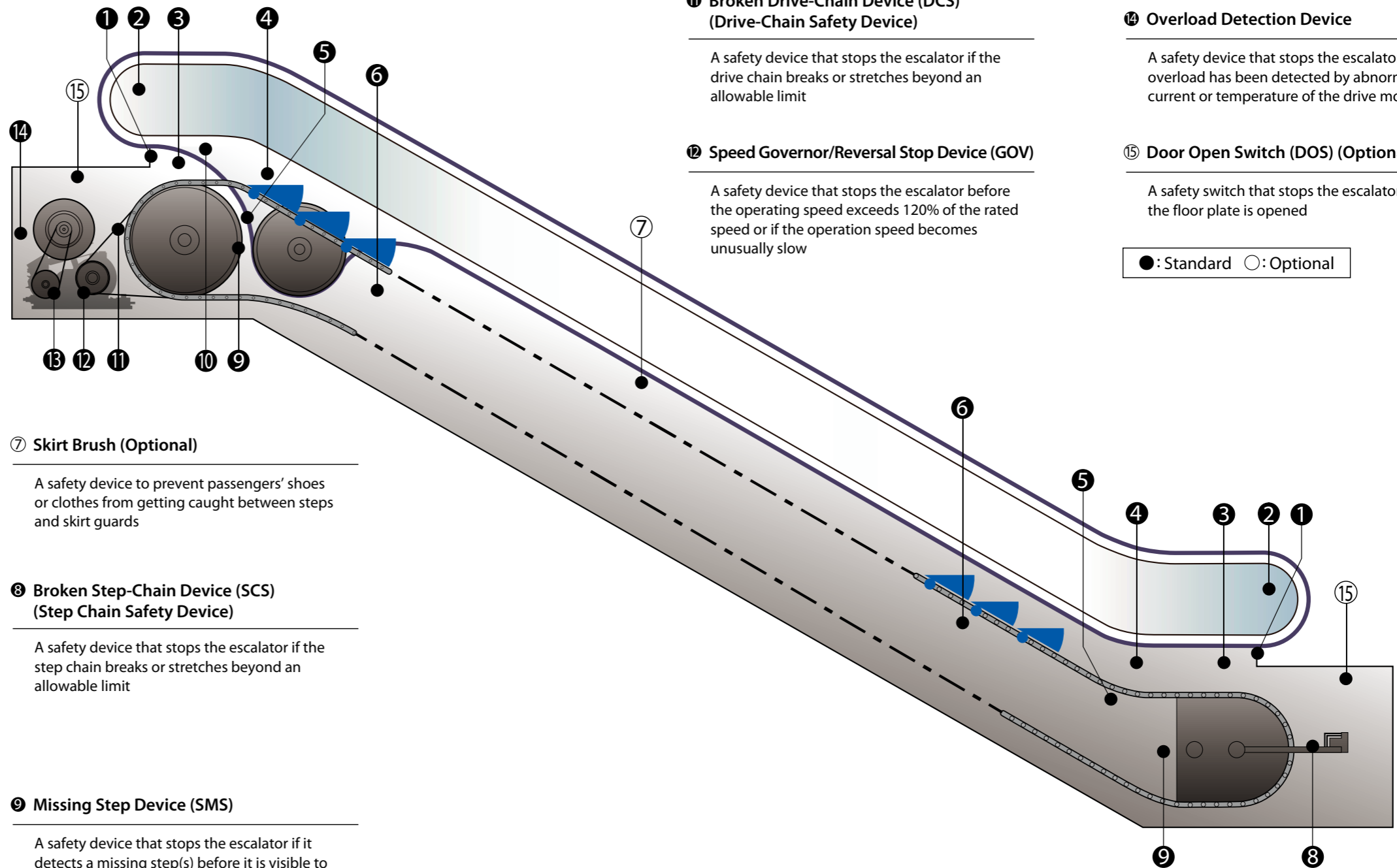
A safety device to stop the escalator if a shoe or other item becomes trapped in the gap between the step and skirt guard

5 Step Up Thrust Device (CRS) (Step Motion Safety Device)

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

6 Step Level Device (SRS)

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



7 Skirt Brush (Optional)

A safety device to prevent passengers' shoes or clothes from getting caught between steps and skirt guards

8 Broken Step-Chain Device (SCS) (Step Chain Safety Device)

A safety device that stops the escalator if the step chain breaks or stretches beyond an allowable limit

9 Missing Step Device (SMS)

A safety device that stops the escalator if it detects a missing step(s) before it is visible to passengers

10 Handrail-Speed Monitoring Device (HSS) (Handrail Speed Safety Device)

A safety device that stops the escalator if the moving handrails fail to synchronize with the steps because of slippage, loosening or breakage of the moving handrails

11 Broken Drive-Chain Device (DCS) (Drive-Chain Safety Device)

A safety device that stops the escalator if the drive chain breaks or stretches beyond an allowable limit

12 Speed Governor/Reversal Stop Device (GOV)

A safety device that stops the escalator before the operating speed exceeds 120% of the rated speed or if the operation speed becomes unusually slow

13 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

14 Overload Detection Device

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

15 Door Open Switch (DOS) (Optional)

A safety switch that stops the escalator when the floor plate is opened

● : Standard ○ : Optional

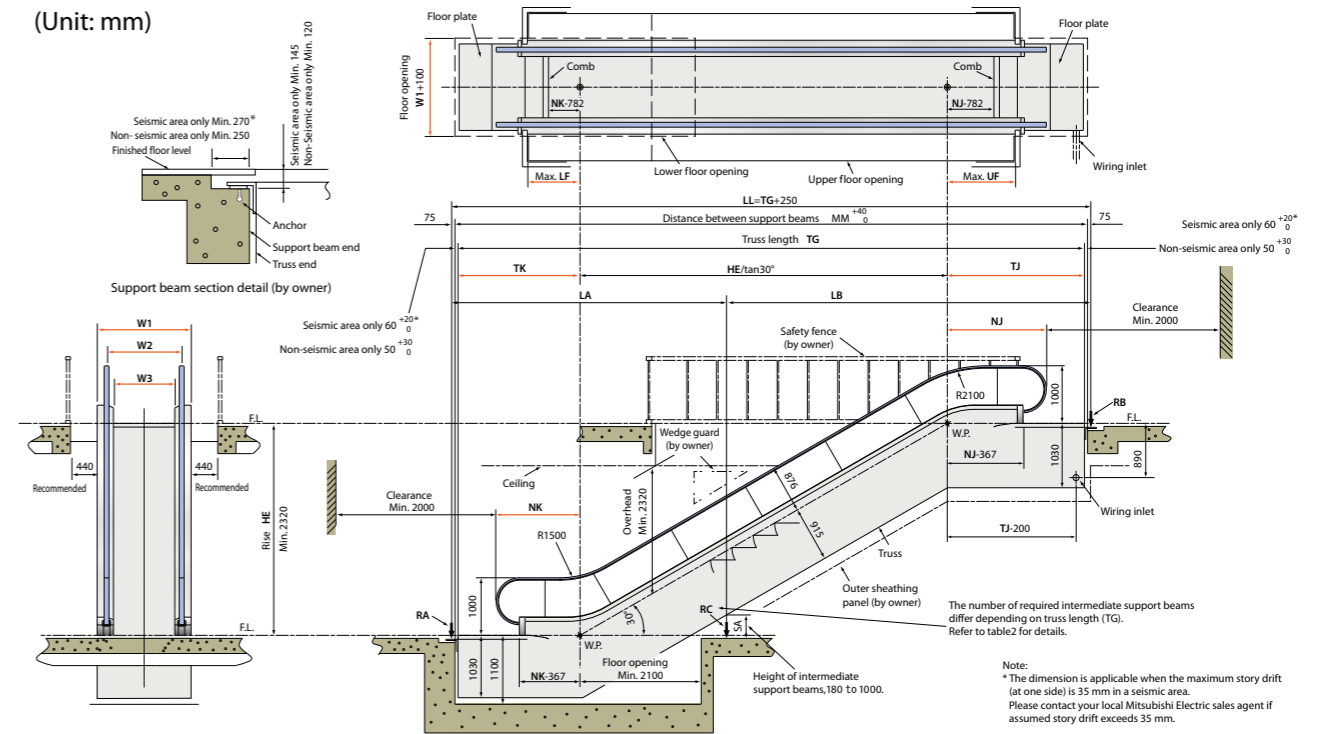
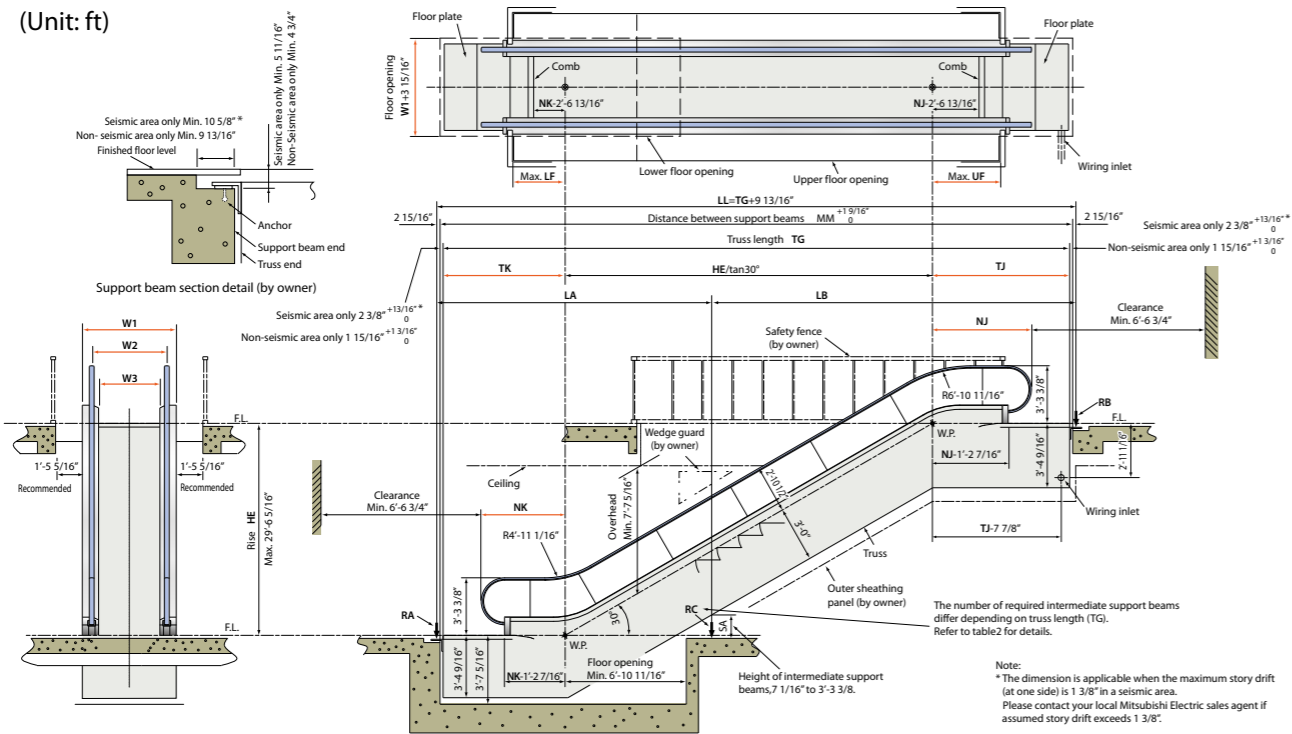


Table 1: Standard dimensions

Width	Type			Horizontal steps	Type	TJ						
	S24" (S600)	S32" (S800)	S40" (S1000)			HE ≤ 7000	7000 < HE	TK	NJ	NK	UF	LF
W1 (escalator width)	3' - 9 1/4"	4' - 5 1/8"	5' - 1"	2 steps	S40" (S1000)	7' - 11 1/2"	8' - 7 3/8"	7' - 3 5/8"	5' - 9 5/16"	5' - 1 7/16"	4' - 0 1/8"	3' - 4 3/16"
W2 (between moving handrails)	2' - 9 1/16"	3' - 4 15/16"	4' - 0 13/16"		S32" (S800)	7' - 11 1/2"	8' - 7 3/8"	7' - 3 5/8"	5' - 9 5/16"	5' - 1 7/16"	4' - 0 1/8"	3' - 4 3/16"
W3 (between skirt guards)	1' - 11 15/16"	2' - 7 13/16"	3' - 3 11/16"		S24" (S600)	8' - 7 3/8"						

Table 1: Standard dimensions

Width	Type			Horizontal steps	Type	TJ						
	S24" (S600)	S32" (S800)	S40" (S1000)			HE ≤ 7000	7000 < HE	TK	NJ	NK	UF	LF
W1 (escalator width)	1150	1350	1550	2 steps	S40" (S1000)	2425	2625	2225	1760	1560	1223	1020
W2 (between moving handrails)	840	1040	1240		S32" (S800)	2425	2625	2225	1760	1560	1223	1020
W3 (between skirt guards)	608	808	1008		S24" (S600)	2625						

Table 2: No. of intermediate support beam

Type	Environment	Without	1 beam		2 beams		Type	Max. LA, LB or LC Environment	
			Indoor	Outdoor	Indoor	Outdoor		Indoor	Outdoor
S40" (S1000)	Indoor	TG ≤ 48' - 8 5/8"	48' - 8 5/8" < TG ≤ 71' - 4 5/16"	71' - 4 5/16" < TG	36' - 1 1/16"	32' - 9 11/16"	S40" (S1000)	Indoor	—
	Semi-outdoor	—	48' - 8 5/8" < TG ≤ 64' - 9 9/16"	64' - 9 9/16" < TG				Outdoor	—
S32" (S800)	Indoor	TG ≤ 49' - 6 1/2"	49' - 6 1/2" < TG ≤ 71' - 4 5/16"	71' - 4 5/16" < TG	36' - 1 1/16"	32' - 9 11/16"	S32" (S800)	Indoor	—
	Semi-outdoor	—	49' - 6 1/2" < TG ≤ 64' - 9 9/16"	64' - 9 9/16" < TG				Outdoor	—
S24" (S600)	Indoor	TG ≤ 50' - 10 1/4"	50' - 10 1/4" < TG ≤ 75' - 11 7/16"	75' - 11 7/16" < TG	38' - 4 5/8"	—	S24" (S600)	Indoor	—
	Semi-outdoor	—	50' - 10 1/4" < TG ≤ 64' - 9 9/16"	64' - 9 9/16" < TG				Outdoor	—

Table 2: No. of intermediate support beam

Type	Environment	Without	1 beam		2 beams		Type	Max. LA, LB or LC Environment	
			Indoor	Outdoor	Indoor	Outdoor		Indoor	Outdoor
S40" (S1000)	Indoor	TG ≤ 14850	14850 < TG ≤ 21750	21750 < TG	11000	10000	S40" (S1000)	Indoor	—
	Semi-outdoor	—	14850 < TG ≤ 19750	19750 < TG				Outdoor	—
S32" (S800)	Indoor	TG ≤ 15100	15100 < TG ≤ 21750	21750 < TG	11000	10000	S32" (S800)	Indoor	—
	Semi-outdoor	—	15100 < TG ≤ 19750	19750 < TG				Outdoor	—
S24" (S600)	Indoor	TG ≤ 15500	15500 < TG ≤ 23150	23150 < TG	11700	—	S24" (S600)	Indoor	—
	Semi-outdoor	—	15500 < TG ≤ 19750	19750 < TG				Outdoor	—

Table 3: Loads (N)

	Without intermediate support beam		With intermediate support beam		Factors
	RA	RB	1 beam	2 beams	
RA	$\alpha \cdot LL + \frac{\beta_1 \cdot (LL - TK + X1) + \beta_2 \cdot (TJ - X2)}{LL}$	$\alpha \cdot LL + \frac{\beta_1 \cdot (TK - X1) + \beta_2 \cdot (LL - TJ + X2)}{LL}$	$\alpha \cdot LA + \beta_1 \cdot \frac{\beta_1 \cdot (TK - X1)}{LA}$	$\alpha \cdot LA + \beta_1 \cdot \frac{\beta_1 \cdot (TK - X1)}{LA}$	Type α (lb/in) S40" (S1000) 24.2 S32" (S800) 22.0 S24" (S600) 19.9
RB	$\alpha \cdot LL + \frac{\beta_1 \cdot (TK - X1) + \beta_2 \cdot (LL - TJ + X2)}{LL}$	$\alpha \cdot LL + \frac{\beta_1 \cdot (TK - X1) + \beta_2 \cdot (TJ - X2)}{LL}$	$\alpha \cdot LB + \beta_2 \cdot \frac{\beta_2 \cdot (TJ - X2)}{LB}$	$\alpha \cdot LB + \beta_2 \cdot \frac{\beta_2 \cdot (TJ - X2)}{LB}$	
RC	—	$\alpha \cdot LL + \frac{\beta_1 \cdot (TK - X1) + \beta_2 \cdot (TJ - X2)}{LL}$	$\alpha \cdot (LA + LC) + \frac{\beta_1 \cdot (TK - X1)}{LA}$	$\alpha \cdot (LA + LC) + \frac{\beta_1 \cdot (TK - X1)}{LA}$	
RD	—	—	$\alpha \cdot (LB + LC) + \frac{\beta_2 \cdot (TJ - X2)}{LB}$	$\alpha \cdot (LB + LC) + \frac{\beta_2 \cdot (TJ - X2)}{LB}$	

Table 3: Loads (N)

	Without intermediate support beam		With intermediate support beam		Factors
	RA	RB	1 beam	2 beams	
RA	$\alpha \cdot LL + \frac{\beta_1 \cdot (LL - TK + X1) + \beta_2 \cdot (TJ - X2)}{LL}$	$\alpha \cdot LL + \frac{\beta_1 \cdot (TK - X1) + \beta_2 \cdot (LL - TJ + X2)}{LL}$	$\alpha \cdot LA + \beta_1 \cdot \frac{\beta_1 \cdot (TK - X1)}{LA}$	$\alpha \cdot LA + \beta_1 \cdot \frac{\beta_1 \cdot (TK - X1)}{LA}$	Type α (N/mm) S40" (S1000) 4.24 S32" (S800) 3.86 S24" (S600) 3.49
RB	$\alpha \cdot LL + \frac{\beta_1 \cdot (TK - X1) + \beta_2 \cdot (LL - TJ + X2)}{LL}$	$\alpha \cdot LL + \frac{\beta_1 \cdot (TK - X1) + \beta_2 \cdot (TJ - X2)}{LL}$	$\alpha \cdot LB + \beta_2 \cdot \frac{\beta_2 \cdot (TJ - X2)}{LB}$	$\alpha \cdot LB + \beta_2 \cdot \frac{\beta_2 \cdot (TJ - X2)}{LB}$	
RC	—	$\alpha \cdot LL + \frac{\beta_1 \cdot (TK - X1) + \beta_2 \cdot (TJ - X2)}{LL}$	$\alpha \cdot (LA + LC) + \frac{\beta_1 \cdot (TK - X1)}{LA}$	$\alpha \cdot (LA + LC) + \frac{\beta_1 \cdot (TK - X1)}{LA}$	
RD	—	—	$\alpha \cdot (LB + LC) + \frac{\beta_2 \cdot (TJ - X2)}{LB}$	$\alpha \cdot (LB + LC) + \frac{\beta_2 \cdot (TJ - X2)}{LB}$	

Remote Monitoring

MelEye

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.

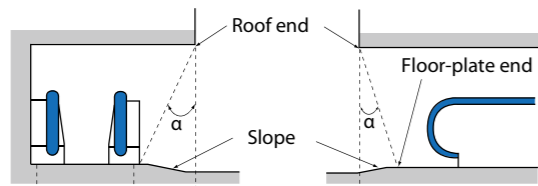


Notes for Outdoor Use

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 122F (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	$\alpha > 70^\circ$
Semi-outdoor	$70^\circ \geq \alpha \geq 30^\circ$
Outdoor	$\alpha < 30^\circ$

Angle α 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.

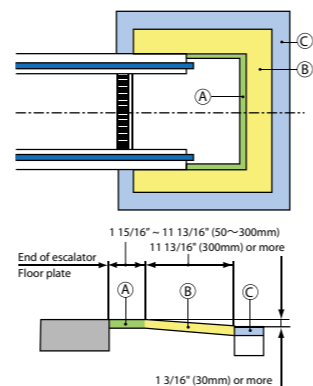
2. Environmental requirements for outdoor escalators

Permissible ambient temperature	Minimum	14F (-10°C) (Special measures are required in cold districts where the ambient temperature can drop below 14F (-10°C).)
	For escalator operation	32F (0°C) to less than 95F (35°C)
Wind pressure	Escalators must not be exposed to direct wind pressure outside the following ranges: 10lbf/ft ² (490N/m ²) or less on the windward side, 5lbf/ft ² (245N/m ²) or less on the leeward side	
Others	Measures are required for escalators installed within a radius of 1.24 miles (two-kilometer) from a shore to protect them from direct exposure to salty wind.	

3. Architectural requirements for outdoor escalators

- Intermediate support beams must be provided.
- 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.
- Drainage must be provided in the entire area marked (C) and covered with grating to keep away drain water.
- 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.
- 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.
- 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.
- 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



Important Information

Work not included in the escalator contract

The following items are not included in Mitsubishi Electric's 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: +1 3/16" (+30mm) to 0" (0mm)
- Flooring around the escalator must not be finished until the escalator is installed.
- Flooring within 1 13/16" (300mm) 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: 4.1lbf/ft² (196N/m²)



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

Mitsubishi Electric elevators and escalators are currently operating in approximately 90 countries around the globe. Built placing priority on safety first, 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 Works and 13 overseas manufacturing factories are utilized in a global 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 Corporation Inazawa 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 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.



If you have an inquiry about our products,
please contact us.

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