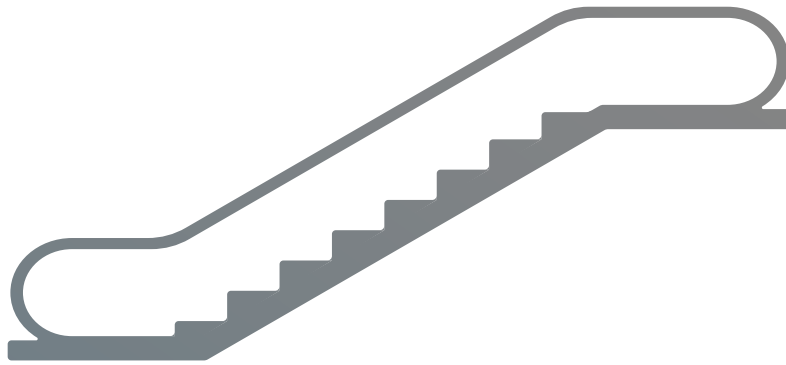


ESCALATOR FOR USA



U
series



U series

**Committed to Unparalleled
Excellence for People, Society,
and the Environment.**

To keep our promise to deliver security and comfort...

To pursue products that are more aesthetic, safer, and easier to use...

To introduce new values expected for escalators to a wider variety of spaces...

U Series escalators are leading the way with an extensive range of technologies.

Secure, gentle stop at the time of an emergency Standard

The escalator stops if the emergency stop button is pressed, or a safety device is activated. By stopping more gently than conventional escalators, *U* Series escalator prevents the passengers from losing their balance or falling and further enhances safety.



Protection against entrapment of sandals and clothing

Yellow demarcation lines on the step edges, tiered demarcation lines on both sides of the steps and skirt brushes guide passengers to stand away from the sides to prevent passengers' shoes or clothes from getting caught. A special coating on the skirt guards reduces friction to minimize the risk.



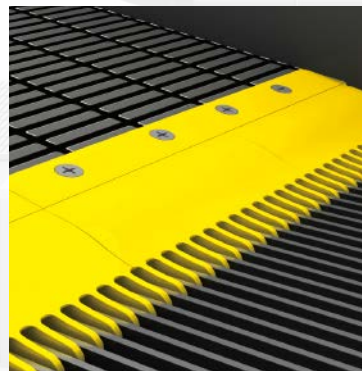
Standard Tiered demarcation line



Optional Skirt brush

Secure, easy boarding / exiting

We have made the comb teeth at a 10° angle to keep passengers from tripping at landing areas. Improved visibility on the boundaries between moving and stationary parts and between steps ensures passenger safety. Further, three horizontal steps help passengers safely get on or off the escalator.



Standard Comb with smaller angle



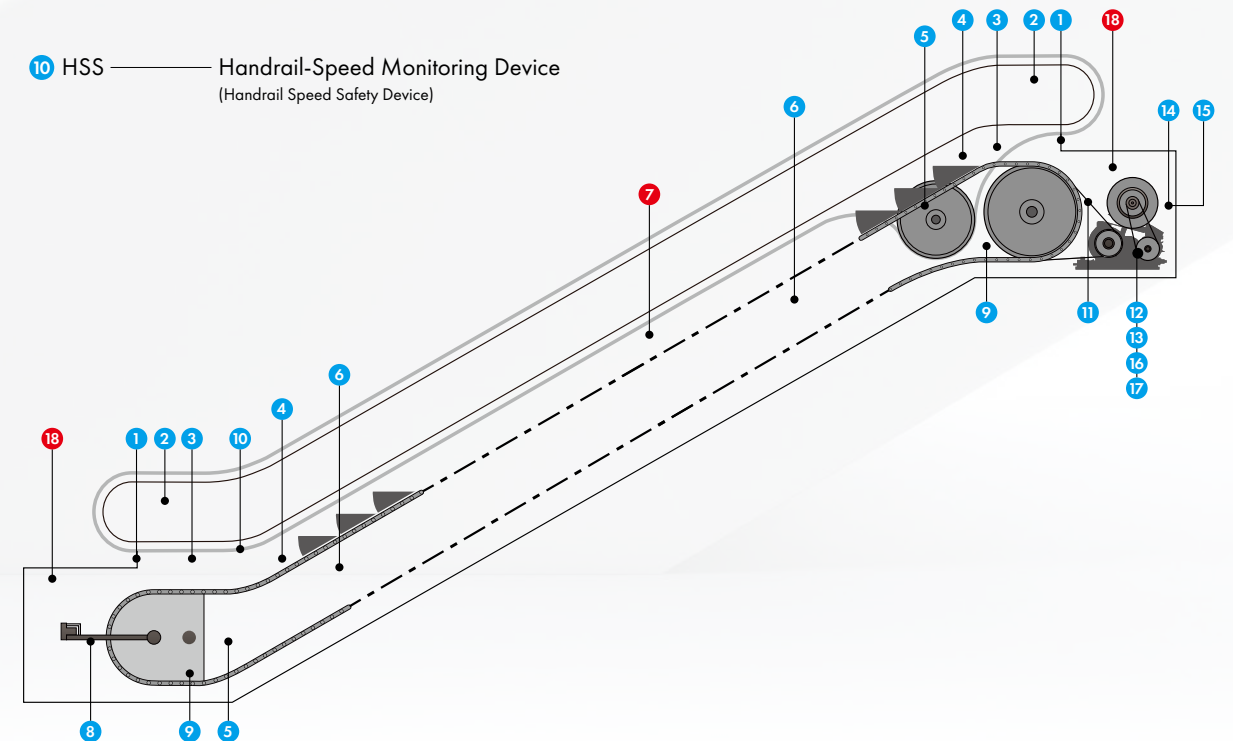
Standard Step with Anti-Slip Grooves

Various safety devices are installed as standard on the escalator as shown below. In addition, optional safety devices help boost safety performance.

Legends

● : Standard ● : Optional

- 1 HGS — Handrail Entry Device (Handrail Guard Safety Device)
- 2 E-STOP — Emergency Stop Button
- 3 CIS — Comb-step impact device
- 4 SSS — Skirt Obstruction Device (Skirt Guard Safety Device)
- 5 CRS — Step Up Thrust Device (Step Motion Safety Device)
- 6 SRS — Step Level Device
- 7 Skirt Brush
- 8 SCS — Broken Step-Chain Device (Step Chain Safety Device)
- 9 SMS — Missing Step Device
- 10 HSS — Handrail-Speed Monitoring Device (Handrail Speed Safety Device)
- 11 DCS — Broken Drive-Chain Device (Drive Chain Safety Device)
- 12 GOV — Speed Governor/Reversal Stop Device
- 13 Electromagnetic Brake
- 14 Overload Detection Device
- 15 3E — Three Elements
- 16 Mechanical slow stop
- 17 SDM — Stop Distance Monitoring
- 18 DOS — Door Open Switch



Notes:
*1: If any safety device that detects entrapment is activated, the escalator stops instantly. The escalator stops slowly or instantly depending on the activated safety device.

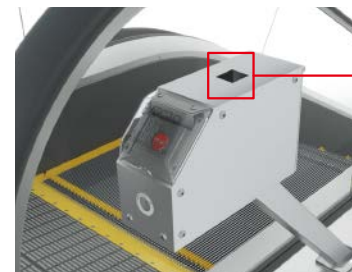
Availability

Kinder Preventive Maintenance
Downtime minimized through proven achievements in Mitsubishi Electric product quality and preventive maintenance technologies.

Fault Indicator

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.



Example of indication:
At fault occurrence



Remote monitoring system – MelEye

Optional

MelEye is a sophisticated Web-based elevator and escalator monitoring system. It improves passenger safety and reliability of your building management.



Read this barcode for more details.



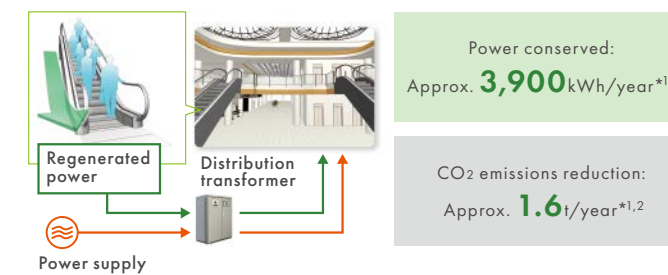
Ecology

Kinder Environmental Performance
Substantial energy savings achieved through efficient use of energy improves building value.

Regenerative converter

Standard

The regenerative converter has the effect of reducing energy consumption by transmitting the power generated when the escalator runs downward with a certain passenger load or more to other facilities in the building.



Notes:

*1: Conditions: Type S1000, rise of 5 m, speed of 0.5 m/sec, 12 hours/day and 365 days/year operation, CO2 conversion rate of 0.4 kg/kWh. The amounts of power conservation and CO2 emissions reduction vary depending on the traffic volume and building specifications.

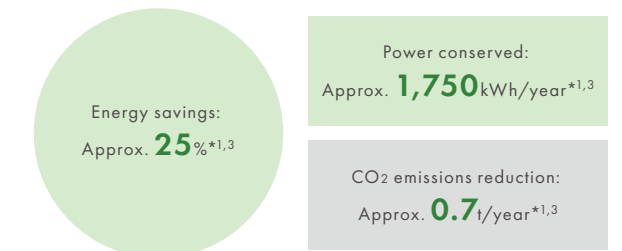
*2: Compared with escalators which are not equipped with a regenerative converter and are in downward operation. (Calculated on the basis of the above conditions and load rate of 30%)

*3: Compared to escalators without automatic operation. (Calculated on the basis of the above conditions, traffic of 100 passengers/hour, standby period of 30 min/hour)

Automatic operation – slow operation in stand-by

Optional

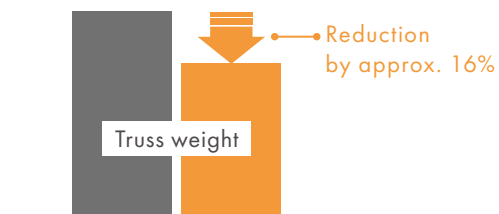
The escalator runs at 0.2 m/sec when no passengers are on the steps. When the sensors detect a passenger, the escalator accelerates to the rated speed.



Flexibility

Kinder Architectural Design
Lightweight design enhances the flexibility in architectural design.

We have employed a structural optimization (topology) tool to minimize the amount of materials used, thus enabling reduction in truss weight by 16% compared to conventional escalators while maintaining the same level of structural strength. The reduced weight truss makes it easy to install and provides architectural flexibility to your building design.



Reduction in CO2 emissions during manufacturing and scrapping:
Approx. **0.86 t/unit**^{*1}

Note:

*1: Iron ores are refined in the blast furnace (2.3 ton of CO2 emissions/1 ton of iron). CO2 emissions during transport of iron ores and scrapped products to a steelworks are not included. (Based on in-house research)



Our 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 placed on consideration for the environment.

As the times change, we promise 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.

* Quality in Motion is a trademark of Mitsubishi Electric Corporation.



Designs

Kinder Designs Blend into Buildings
A diverse product lineup offers aesthetic effects for building transportation modes and more.

Handrail



Lighting

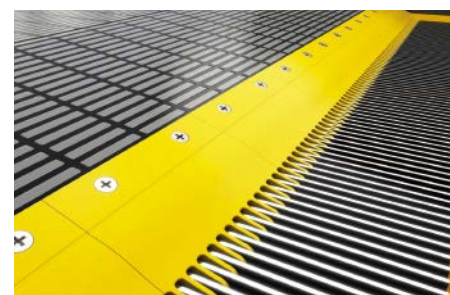


Optional Comb lights



Optional Step demarcation lighting

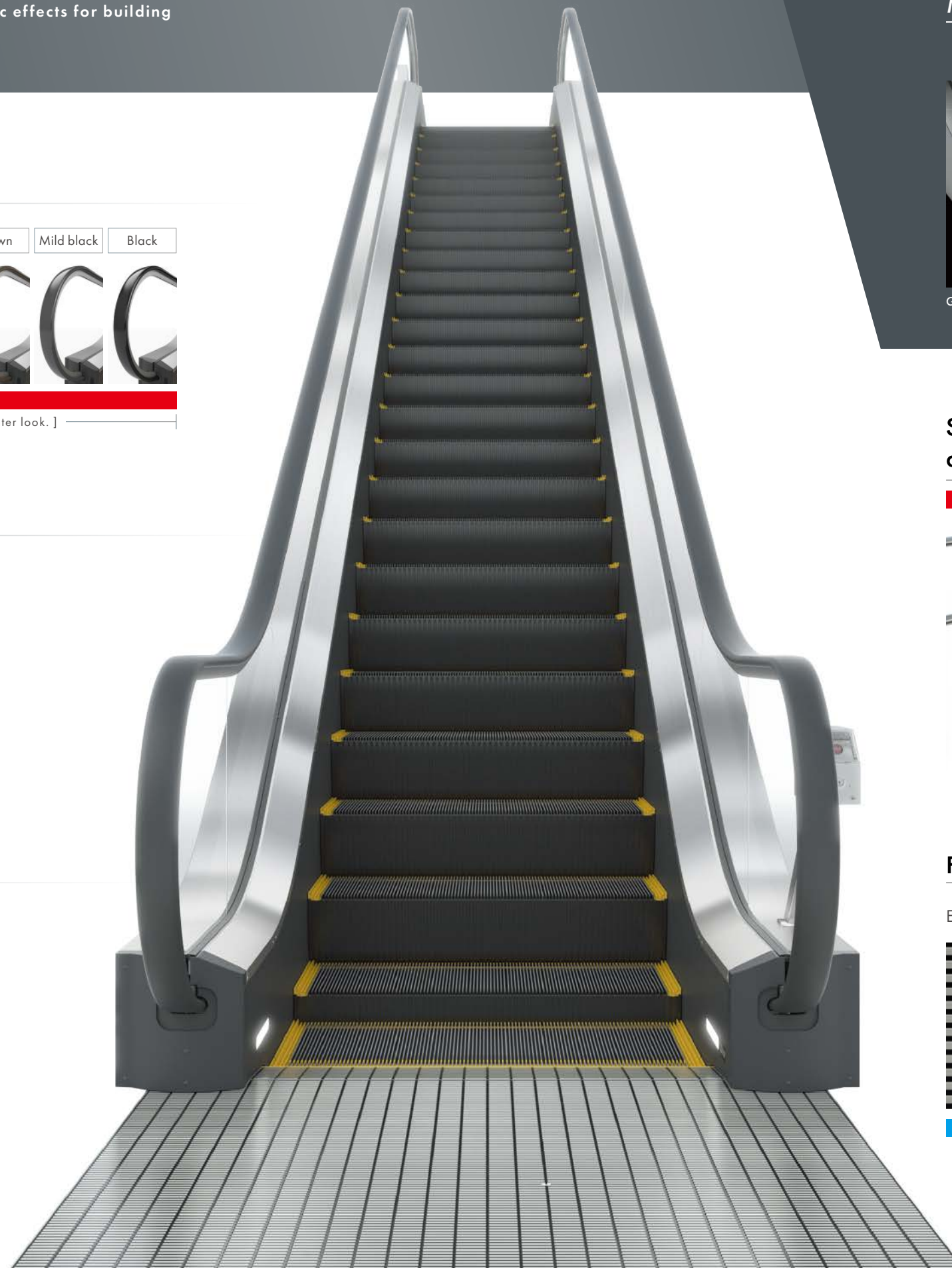
Comb



Standard Yellow plastic



Optional Aluminum



Model

Model S



Glass Panel

Sensor post for automatic operation*1



Optional

Floor plate

Embossed stainless-steel plate with black grooves



Standard



Optional

Notes:
*1: The sensor posts for automatic operation are available in stainless-steel mirror finish or stainless-steel hairline finish.

Basic Data

Step width

S24"(S600)

S32"(S800)

S40"(S1000)

Inclination & Rise

Max. 29'-6 5/16" rise at 30° inclination. Min. 7'-2 5/8" rise.

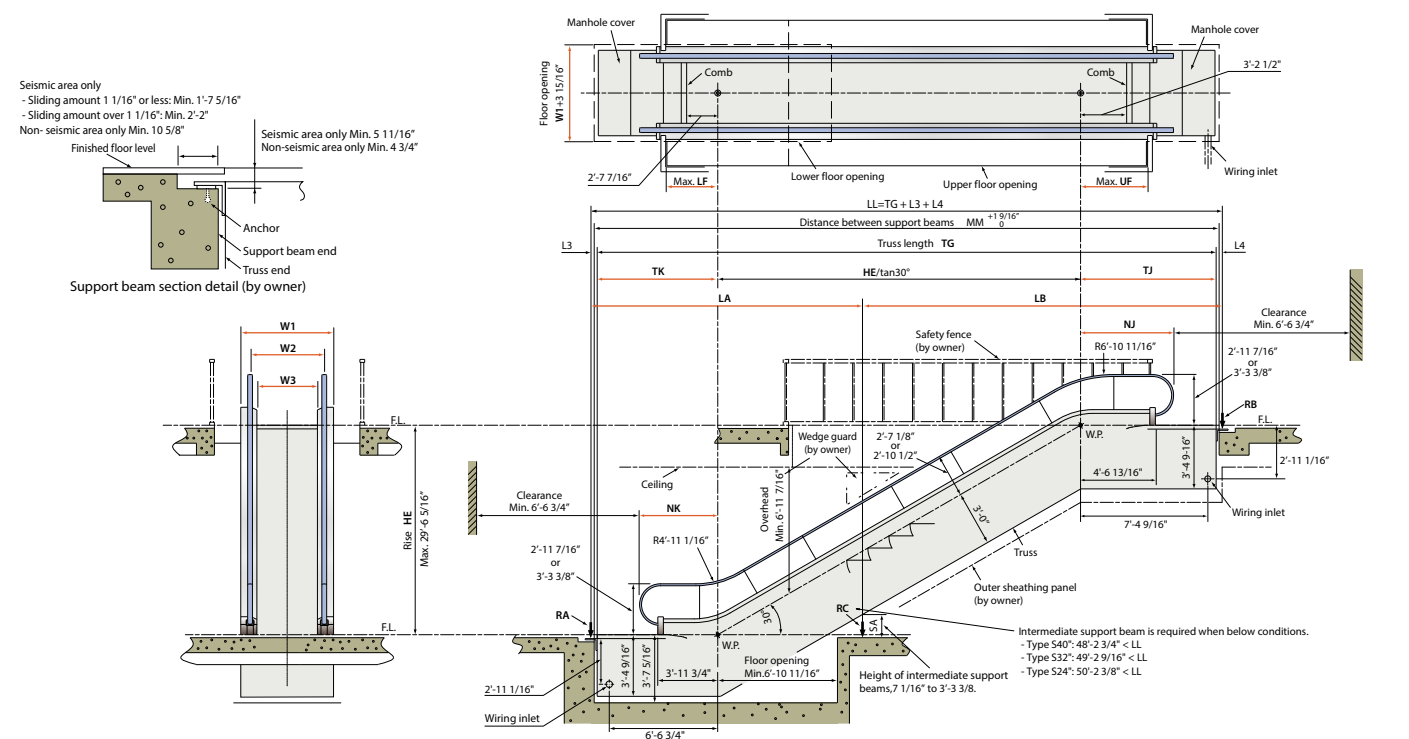
Location

Shoreline 1.24 miles or more. Indoor only.

Permissible Ambient temperature

Ambient temperature scale: 104°F (Standard range), 32°F (Special measure required in cold districts), 14°F.

Layout

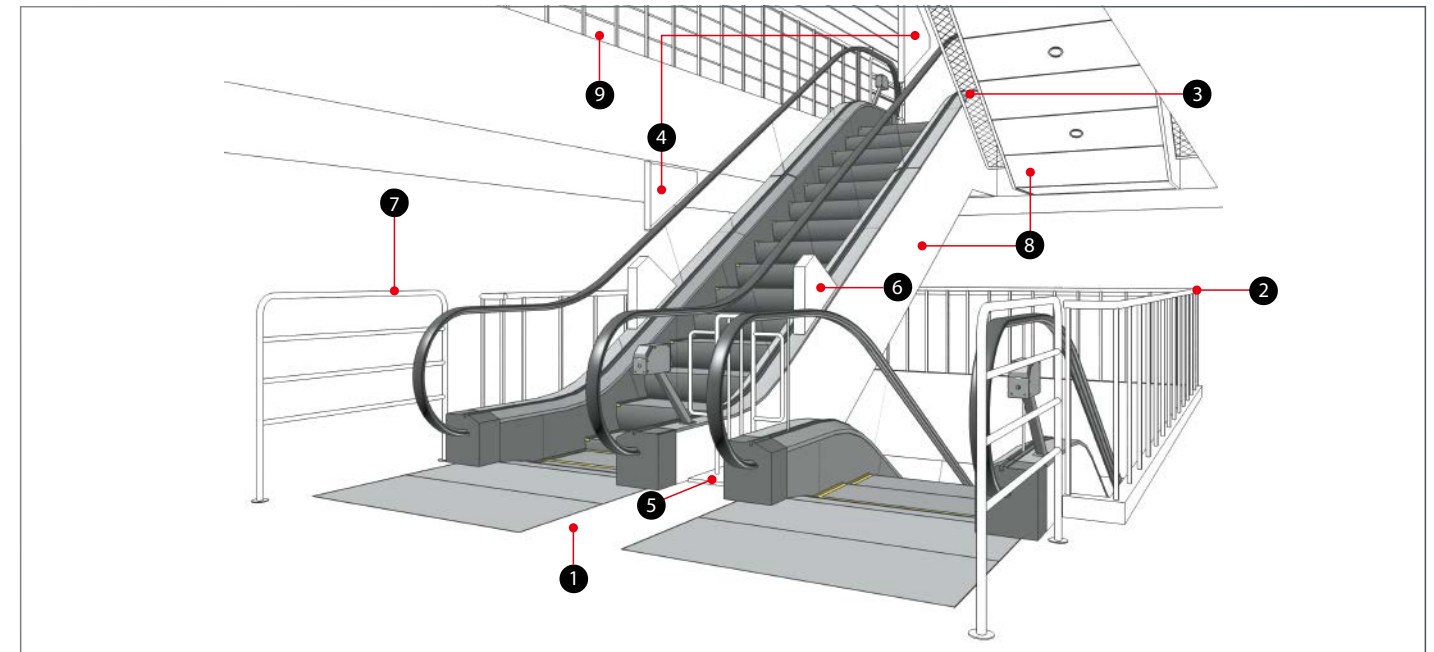


Standard dimensions (ft, in)			
	Type		
	S24"	S32"	S40"
W1	3'-9 1/4"	4'-5 1/8"	5'-1"
W2 (between moving handrails)	2'-9 1/16"	3'-4 15/16"	4'-0 13/16"
W3	2'-0"	2'-7 7/8"	3'-3 3/4"
Max. LA, LB	38'-4 5/8"	36'-1 1/16"	36'-1 1/16"
TJ	HE ≤ 22'-11 9/16"	10'-6 15/16"	8'-4"
	22'-11 9/16" < HE	8'-7 3/8"	8'-7 3/8"
TK	7'-8 15/16"	7'-8 15/16"	7'-8 15/16"

Loads (lb)				
	Without intermediate support beam			
	RA	RB	RC	LF
Without intermediate support beam	$\alpha \cdot LL + \frac{\beta_1 \cdot (LL-L_1) + \beta_2 \cdot L_2}{LL}$	$\alpha \cdot LL + \frac{\beta_1 \cdot L_1 + \beta_2 \cdot (LL-L_2)}{LL}$		
With intermediate support beam	$\alpha \cdot LA + \beta_1 \cdot \frac{\beta_1 \cdot L_1}{LA}$	$\alpha \cdot LB + \beta_2 \cdot \frac{\beta_2 \cdot L_2}{LB}$	$\alpha \cdot LL + \frac{\beta_1 \cdot L_1}{LA} + \frac{\beta_2 \cdot L_2}{LB}$	

Factors		Non-seismic area		Seismic area	
LL (ft)	α (lb/in)	β_1	β_2	L1	L2
S40"	42'-5 13/16" or less	22.73	787	TK - 3'-9 1/16" + L3	
	Over 42'-5 13/16"	23.07	2475		TJ - 4'-3 11/16" + L4
S32"	44'-6 7/16" or less	20.67			
S24"	46'-7 1/16" or less	18.56			
	Over 46'-7 1/16"	18.9			

*Maximum sliding amount is 2 11/16".



The following items are excluded from our escalator installation work and are therefore the responsibility of the building owner or general contractor. Safety measures shall be provided in accordance with the local laws and standards.

Architectural work

- Installation of support beams (including intermediate supports)
- Hole filling and floor finishing in surrounding areas after escalator installation (1)
- Fireproofing and fire-prevention measures for escalator exterior materials and surrounding areas
- Safety features for surrounding areas
 - Safety fences (2)
 - Nets (3)
 - Wedge guard (4)
 - Deck guards (5)
 - Deck barricades (6)
 - Guiding fences (7)
- Outer panel sheathing (8)
- Installation of inspection doors

Facility work

- Conduit and wiring work for power supply to control panel in upper truss, power supply for lighting and grounding
- Other wiring and conduit work
- Installation of outlets in the upper and lower trusses
- Installation of fire-prevention shutters (9)

Notes on building work

- Tolerance in distance between supporting beams: +1 9/16" (40mm) to 0" (0mm)
- Flooring around the escalator must not be finished until the escalator is installed.
- Flooring within 11 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: 4.1 lbf/ft² (196 N/m²)



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 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.



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<https://www.MEBS.com/>

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