Mitsubishi Electric 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 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.

Mitsubishi Electric US, Inc. Elevator / Escalator Division

Tel: 800-988-8474 / 5900-A Katella Avenue, Cypress, California 90630, U.S.A.

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

**Principle**

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.

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 lie of the highest level in all products and business activities, while priority is placed 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.

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**Dimensions**

<table>
<thead>
<tr>
<th>Type</th>
<th>Step width</th>
<th>Inclination</th>
<th>Rise</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type S24&quot;</td>
<td>1'-11 3/4&quot; (S600: 604mm)</td>
<td>30°</td>
<td>7'-2 5/8&quot; to 29'-6 5/16&quot; (2200 to 9000mm)</td>
</tr>
<tr>
<td>Type S32&quot;</td>
<td>2'-7 5/8&quot; (S800: 804mm)</td>
<td>3'-3 3/8&quot; (1000mm)</td>
<td></td>
</tr>
<tr>
<td>Type S40&quot;</td>
<td>3'-3 1/2&quot; (S1000: 1004mm)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Models for Various Scenes

Simple designs and stylish curves matched to diverse settings

Glass Panel

SAS

Stainless-steel Panel

SAP

Moving Handrails

Polyurethane

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

<table>
<thead>
<tr>
<th>No.</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001</td>
<td>Black</td>
</tr>
<tr>
<td>0002</td>
<td>Vermilion</td>
</tr>
<tr>
<td>0003</td>
<td>Red</td>
</tr>
<tr>
<td>0004</td>
<td>Yellow</td>
</tr>
<tr>
<td>0005</td>
<td>Green</td>
</tr>
<tr>
<td>0006</td>
<td>Blue</td>
</tr>
<tr>
<td>0007</td>
<td>Light gray</td>
</tr>
<tr>
<td>0008</td>
<td>Brown</td>
</tr>
<tr>
<td>0009</td>
<td>Mild black</td>
</tr>
<tr>
<td>0010</td>
<td>Warm gray</td>
</tr>
</tbody>
</table>

Rubber

<table>
<thead>
<tr>
<th>No.</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>0011</td>
<td>Black</td>
</tr>
</tbody>
</table>

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

- **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.

- **Brighter Demarcation Color**
  
  The brightness of the yellow demarcation lines has been improved to provide better visibility.

- **Low-Friction Material on Skirt Guard**
  
  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**
  
  Skirt brushes installed on the skirt guard prevent passengers’ clothes or shoes from getting caught between the step and the skirt guard.

- **Comb with Smaller Angle**
  
  We have made the angle the smallest it can be to keep passengers from tripping at boarding and landing areas.

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

- **Step Demarcation Lighting**
  
  Optional

**Note:**

* Please note that passengers’ clothes or shoes may be dirty after a long period of use.
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.

**Fault Indicator**

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**

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.

**Floor Name**

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

**Note:**
- Direction indicator and Fault indicator are not applicable for stainless-steel panel type (SAP).
**Specifications**

### Basic specifications

<table>
<thead>
<tr>
<th>Item</th>
<th>SAS/SAP</th>
<th>S32 (5000)</th>
<th>S32 (6000)</th>
<th>S40 (10000)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Models</td>
<td>SAS/SAP</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Codes</td>
<td>ASME A17.1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lighting power supply</td>
<td>AC single-phase, 60Hz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated speed</td>
<td>100fpm (0.5m/sec)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control system</td>
<td>Standard: AC1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theoretical transport capacity<strong>1</strong></td>
<td>4500</td>
<td>6750</td>
<td>9000</td>
<td></td>
</tr>
<tr>
<td>Inclination</td>
<td>30°</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment</td>
<td>Indoor<strong>1</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Min. rise (mm)</td>
<td>7'-2 3/8&quot; (2200mm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. rise (mm)</td>
<td>20'-6 1/2&quot; (6100mm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Escalator width (mm)</td>
<td>3'-9 1/4&quot; (1150mm)</td>
<td>4'-5 1/8&quot; (1350mm)</td>
<td>5'-1&quot; (1550mm)</td>
<td></td>
</tr>
<tr>
<td>Between moving handrails (mm)</td>
<td>2'-9 1/4&quot; (840mm)</td>
<td>3'-4 15/16&quot; (1040mm)</td>
<td>4'-6 13/16&quot; (1240mm)</td>
<td></td>
</tr>
<tr>
<td>Between skirt guards (mm)</td>
<td>1'-11 1/16&quot; (608mm)</td>
<td>2'-7 13/16&quot; (808mm)</td>
<td>3'-11 1/16&quot; (1008mm)</td>
<td></td>
</tr>
<tr>
<td>Truss width (mm)</td>
<td>3'-7 3/8&quot; (1150mm)</td>
<td>4'-4 3/16&quot; (1350mm)</td>
<td>4'-11 1/2&quot; (1550mm)</td>
<td></td>
</tr>
<tr>
<td>Floor opening (mm)</td>
<td>4'-1 3/16&quot; (1250mm)</td>
<td>4'-9 1/16&quot; (1450mm)</td>
<td>5'-4 1/16&quot; (1650mm)</td>
<td></td>
</tr>
</tbody>
</table>

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:

- SAS/SAP: 500 persons per 10 minutes.
- S32 (5000): 500 persons per 10 minutes.
- S32 (6000): 500 persons per 10 minutes.
- S40 (10000): 500 persons per 10 minutes.

**2** Please refer to "Environmental Requirements" on page 17.

---

### Sections of the balustrade

### Applications

<table>
<thead>
<tr>
<th>Division</th>
<th>Specification</th>
<th>SAS</th>
<th>SAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Control system</td>
<td>AC1: Standard key switch operation</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Indicator</td>
<td>Direction indicator (LED)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Finish and decorative components</td>
<td>Transparent tempered glass</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Non-slip sheet</td>
<td>Stainless-steel hairline-finish</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Deck board</td>
<td>Interior panel</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>Handrail inlet cap</td>
<td>Polyurethane No. 5001 (black)</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Comb</td>
<td>Automatic oiler</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

**Notes:**

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

---

### Deck board (Inner deck)

- Interior panel
- Skirt guard
- Handrail inlet cap
- Comb

### Deck board (Outer deck)

- Interior panel
- Skirt guard
- Moving handrail
- Emergency stop button
- Floor plate

---

**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:

- SAS/SAP: 500 persons per 10 minutes.
- S32 (5000): 500 persons per 10 minutes.
- S32 (6000): 500 persons per 10 minutes.
- S40 (10000): 500 persons per 10 minutes.

**2** Please refer to "Environmental Requirements" on page 17.
Safety Devices
Various safety devices ensuring high levels of safety and reliability

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

3. Emergency Stop Button (E-STOP)
   A button to immediately stop the escalator in emergency situations.

4. 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.

5. 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.

6. 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.

7. Step Level Device (SRS)
   A safety device that stops the escalator if the horizontal level of a step has dropped.

8. Skirt Brush (Optional)
   A safety device to prevent passengers’ shoes or clothes from getting caught between steps and skirt guards.

9. 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.

10. 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.

11. 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.

12. Handrail-Speed Monitoring Device (HSS)
    (Handrail Speed Safety Device)
    A safety device that stops the escalator if the moving hand rails fail to synchronize with the steps because of slippage, loosening or breakage of the moving handrails.

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.
### Table 1: Standard dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Length (Unit: ft)</th>
<th>Diameter</th>
<th>Weight (Unit: lb)</th>
<th>Installation Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>S40&quot; (S1000)</td>
<td>7'-6&quot; - 9'</td>
<td>1-1/4&quot;</td>
<td>2200</td>
<td>W. P.</td>
</tr>
<tr>
<td>S32&quot; (S800)</td>
<td>7'-6&quot; - 9'</td>
<td>1-1/4&quot;</td>
<td>1900</td>
<td>W. P.</td>
</tr>
<tr>
<td>S32&quot; (S800)</td>
<td>7'-6&quot; - 9'</td>
<td>1-1/4&quot;</td>
<td>1900</td>
<td>W. P.</td>
</tr>
</tbody>
</table>

### Table 2: No. of intermediate support beam

<table>
<thead>
<tr>
<th>Model</th>
<th>Length (Unit: ft)</th>
<th>Diameter</th>
<th>Weight (Unit: lb)</th>
<th>Installation Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>S40&quot; (S1000)</td>
<td>7'-6&quot; - 9'</td>
<td>1-1/4&quot;</td>
<td>2200</td>
<td>W. P.</td>
</tr>
<tr>
<td>S32&quot; (S800)</td>
<td>7'-6&quot; - 9'</td>
<td>1-1/4&quot;</td>
<td>1900</td>
<td>W. P.</td>
</tr>
<tr>
<td>S32&quot; (S800)</td>
<td>7'-6&quot; - 9'</td>
<td>1-1/4&quot;</td>
<td>1900</td>
<td>W. P.</td>
</tr>
</tbody>
</table>

### Table 3: Loads (N)

<table>
<thead>
<tr>
<th>Model</th>
<th>Length (Unit: ft)</th>
<th>Diameter</th>
<th>Weight (Unit: lb)</th>
<th>Installation Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>S40&quot; (S1000)</td>
<td>7'-6&quot; - 9'</td>
<td>1-1/4&quot;</td>
<td>2200</td>
<td>W. P.</td>
</tr>
<tr>
<td>S32&quot; (S800)</td>
<td>7'-6&quot; - 9'</td>
<td>1-1/4&quot;</td>
<td>1900</td>
<td>W. P.</td>
</tr>
<tr>
<td>S32&quot; (S800)</td>
<td>7'-6&quot; - 9'</td>
<td>1-1/4&quot;</td>
<td>1900</td>
<td>W. P.</td>
</tr>
</tbody>
</table>

### Table 4: Loads (N)

<table>
<thead>
<tr>
<th>Model</th>
<th>Length (Unit: ft)</th>
<th>Diameter</th>
<th>Weight (Unit: lb)</th>
<th>Installation Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>S40&quot; (S1000)</td>
<td>7'-6&quot; - 9'</td>
<td>1-1/4&quot;</td>
<td>2200</td>
<td>W. P.</td>
</tr>
<tr>
<td>S32&quot; (S800)</td>
<td>7'-6&quot; - 9'</td>
<td>1-1/4&quot;</td>
<td>1900</td>
<td>W. P.</td>
</tr>
<tr>
<td>S32&quot; (S800)</td>
<td>7'-6&quot; - 9'</td>
<td>1-1/4&quot;</td>
<td>1900</td>
<td>W. P.</td>
</tr>
</tbody>
</table>

* Please contact your local Mitsubishi Electric sales agent if the maximum story drift is assumed story drift or another story drift exceeds 35 mm.
Remote Monitoring

MelEye

Mitsubishi Electric’s MelEye is a sophisticated Web-based elevator and escalator monitoring and control 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.

* Please note that MelEye is designed for monitoring of escalator operation, not to control the escalators remotely.

Environmental Requirements

Escalator performance and quality are susceptible to environmental influences. The following environmental conditions shall be ensured for operation of this escalator model.

<table>
<thead>
<tr>
<th>Location</th>
<th>Indoor (To be surrounded by building structures.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum permissable ambient temperature</td>
<td>14F (-10°C) (Special measures are required in cold districts where the ambient temperature can drop below 14F (-10°C))</td>
</tr>
<tr>
<td>For escalator operation</td>
<td>52F (22°C) to less than 95F (35°C)</td>
</tr>
<tr>
<td>Others</td>
<td>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.</td>
</tr>
</tbody>
</table>

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 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: 4.1lb/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, 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 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.

Eco Changes is the Mitsubishi Electric Group’s environmental statement, and expresses the Group’s stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

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