In Compliance With the Standards of EN81-20 and EN81-50
“Made in Fujitec”

By providing people with the safe and reliable elevators that Fujitec manufactures in-house, Fujitec is building trust with people around in the world.

By manufacturing safe and reliable elevators, we are building trust with people around the world.

Fujitec's “Global Common Components” are used in the ZEXIA brand. The quality of components, such as traction machines, elevator controllers, and operating fixtures, is controlled through Fujitec's integrated system of global quality management. Elevators with the same high quality will be provided by Fujitec's global production base under the concept of “Made in Fujitec”.

70-Year History in the Business of Elevator, Escalator and Moving Walks

Since the foundation of Fujitec in 1948, seeing the market from a global perspective and having the spirit of being a top global company, Fujitec has been a global leading manufacturer of elevators, escalators, and moving walks. Fujitec has been providing the people with leading-edge technologies and global standards of product.
Safety & Reliability

All control-related components ranging from control circuits to inverters are independently developed by Fujitec, so that highly reliable elevator operation is established. When the elevator control system assembled with Fujitec’s reliable component parts detects the possibility of the occurrence of elevator malfunction, it operates in order to maintain the elevator operation stable and efficient.

Ecology

In ZEXIA elevators, the gearless traction machines with a permanent magnetic synchronous motor assure low power consumption. Also, the electric power regenerative unit equipped between the elevator controller and the power supply saves the electrical energy consumption in the building. Fujitec contributes to global society by providing for ecology-conscious products, reflecting on them 70 years of knowledge and technologies accumulated through the manufacturing of elevators.

Comfort Design

Under Fujitec’s universal designs, newly adopted buttons for elevator operating fixtures are highly visible and tactually recognizable, and the numbers and letters shown on aesthetically refined displays can be easily seen and read. Also, various styles for the decoration of elevator interior and landing floors provide the passengers with a superb and comfortable riding experience.
Distributed Control System

FLEX-NX series - Elevator Group Supervisory Control System - (GSC)

Fujitec has adopted the “Virtual Passenger Optimization Method” as a new elevator group control system. This system controls elevator group operation by virtually calculating passenger waiting time in advance based on past accumulated data, such as passenger travel patterns and passenger volume at each floor. Also, this method comprehensively calculates passenger waiting time based on extrapolated data of probable future passengers, how many passengers will come to a certain floor when a hall call is registered and/or how many passengers will come to a certain floor when no hall call is registered.

In an elevator operating system with EZSHUTTLE, passengers are required to register their destinations at the elevator floors rather than conventionally registering them inside the elevator. The EZSHUTTLE system then guides passengers to their assigned elevators, which will have been selected to minimize the number of destination stops based on the registered destinations. This passenger guidance and elevator assignment provides passengers with uncongested elevator service and a reduction in passenger riding time by 50%* at peak travel periods.

Night-Time Self-Checking Operation

- A safety enhancement for increased reliability -

Mechanical brake conditions are automatically checked by moving the elevator during the night time while not receiving any car and hall calls. This night-time self-checking operation increases passenger safety and contributes to a high after-sales product quality.

Multi-Beam Sensor

Multi-beam Sensor emits multiple infrared beams, creating an invisible curtain covering the entire doorway. If any of the beams is interrupted, the closing doors will stop and reopen. This function results in a significantly higher detection rate of a passenger and/or an object in the doorway.
The new elevator standards of EN81-20 and EN81-50 have been released by European Committee for Standardization, making void the former standards of EN81-1 and EN81-2. The requirements for the production and installation of elevators are stated in EN81-20; the requirements for the inspection and test of their component parts in EN81-50. In response to this release, the specifications of Fujitec elevators have been updated. The following are several main items adopted for the arrangement of elevator specifications.

### For Passengers

1. **Prevention of the Occurrence of the Ascending Elevator’s Overspeed**
   
   In order for the ascending elevator not to overspeed, the elevator system is equipped with ascending car overspeed protection means.

2. **Protection against an Unintended Movement of Elevator**
   
   Unintended movement of a car is detected by an independent safety-purpose control circuit. This function increases the safety of passengers.

3. **Strength of Landings and Car Doors**
   
   The strength of landing and car doors is enhanced in order for them to be retained in their given position. The safety of passengers at landing floors and inside car has been increased.

4. **Provision of Enough Lighting Intensity inside the Elevator**
   
   a) the lighting intensity of ceiling light 100 lux or more 1 meter above car floor
   
   b) the lighting intensity of emergency light 5 lux or more 1 meter above car floor (1-hour lighting period is required.)

5. **Multi-Beam Sensor on Elevator Door for Passenger Safety**
   
   For the enhancement of the safety of passengers entering and leaving from the elevator, multi-beam sensor is provided and installed on car door based on the following.
   
   a) Multi-beam sensor detects an obstacle of which the diameter is 50 mm or more.
   
   b) Multi-beam sensor must detect the obstacle within the vertical range from 25 mm to 1600 mm above door sill.
   
   c) When detecting the obstacle, the closing door must stop and open automatically.

### For Maintenance Staff

1. **Refuge Space on Car Roof and Clearance in Headroom**
   
   The layout of elevator equipment on car roof and overhead space complies with the requirements of EN81-20. Due to this compliance, refuge space is increased for the safety of maintenance staff.

2. **Balustrades on Car Roof**
   
   The height and strength of the balustrades on the car roof are increased based on the requirements of EN81-20. This increase contributes to the reduction of the risk that a maintenance person falls into the hoistway.

3. **Provision of Inspection Control Station in Hoistway Pit**
   
   To ensure more safety for the maintenance staff working in the pit, Inspection Control Station is added in the bottom of the hoistway.

4. **Refuge Space and Clearance in Hoistway Pit**
   
   Layout of elevator equipment in the hoistway pit based on the requirements of EN81-20 creates larger refuge space and ensures more safety for the maintenance staff.

5. **Safe Design and Enough Strength of Pit Access Ladder**
   
   In order for the maintenance staff to safely enter the hoistway pit, strengthening of a pit access ladder with safe design is required.

For details of the full requirements, see the official document of EN81-20 and EN81-50.
Gearless Traction Machine with Permanent Magnetic Synchronous Motor

The gearless traction machines with a permanent magnetic synchronous motor assure high riding comfort quality and low power consumption. This newly adopted technology reduces the weight and size of a traction machine, because gears are no longer required for elevator speed control.

In addition, ZEXIA's small machines require less motor capacity and power consumption compared to conventional elevators. The differences are shown below.

Given elevator operating conditions:
1) The maximum number of elevator operations per day: 600 times
2) The travel distance in a single operation: 30 meters
3) The rated speed: 1.0 meter per second
4) The rated load: 1200 kgs.

<table>
<thead>
<tr>
<th>Required Motor Capacity</th>
<th>ZEXIA Elevator (PMGL)</th>
<th>Conventional Elevator (ACGD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Capacity</td>
<td>8 kW</td>
<td>11 kW</td>
</tr>
</tbody>
</table>

Savings of Energy Consumption and CO₂ Emission

- **Taguchi Elevator (PMGL)**: 8 kW
- **Conventional Elevator (ACGD)**: 11 kW

Energy-efficient traction machines reduce power consumption and CO₂ emission.

Saving of Building Space by the Less Occupation of Machine Room

The machine room space required by ZEXIA elevators is 60% smaller than that of conventional elevators. This remarkable feature results in a reduction of building construction costs, and increase usable space in the building.

LED Lights on Car Ceiling

Fujitec's adoption of energy-efficient, long-lasting LED downlights for car ceiling light saves energy, and leads to the preservation of environment.

<table>
<thead>
<tr>
<th>Filament Light Bulb</th>
<th>LED Light Bulb</th>
<th>Improvement Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifetime</td>
<td>approx. 1,500 hours</td>
<td>approx. 20,000 hours</td>
</tr>
<tr>
<td>Wattage</td>
<td>90 W</td>
<td>9 W</td>
</tr>
</tbody>
</table>

Electric Power Regenerative Unit

The adoption of electric power regenerative unit instead of conventional heat dissipation resistor allows the traction-machine-produced electricity to be fed back to the building’s electrical facilities. The amount of electricity fed back to the facilities is equivalent to nearly 35% of the whole amount of electricity consumed by the corresponding type of elevator with heat dissipation resistor.

1) The value of this percentage differs based on the specifications of the elevator and its usage.
The latest human engineering technologies are reflected on the ZEXIA elevators. As the function of man-machine interface, tactile characters and letters are adopted for the buttons on the elevator operating boards and the elevator call buttons in the hall fixtures. Also, the devices and functional systems for the creation of comfort for the elevator passengers are equipped in the elevator.

Tactile Letters and Characters for Operating Buttons

Tactile letters and characters are adopted for the elevator operating buttons. They are raised from the surface of the buttons in order for a passenger to recognize the assigned function for each button. Their unique design functions as a friendly interface between the passengers and the elevators.

IONFUL
(Plasmacluster™ Ion Generating Device)

The first elevator company that installed a Plasmacluster Ion generating device in an elevator is Fujitec. The device built in an elevator’s ventilation unit disinfects airborne mold, bacteria, viruses, allergens, and odor molecules as well as creating clean air in the elevator. This increases the comfort of passengers.

VONIC
(Automatic Voice Announcement System)

A computerized voice system provides passengers with timely information about car directions, car arrivals, door opening and closing, and emergencies, etc. (Voice announcement is made in English. At the customer’s request, it may be made in another language.)
**Standard Car Design**

- **Car Ceiling: CT-GS01**: (Ceiling with LED Downlights)
  - Panel: Steel Sheet with Paint Finish
  - Color in the image: white (5AABJ001)
  - The other two standard colors are available.

- **Car Panel, Car Transom, Return Panel, Car Door**
  - Steel Sheet with Paint Finish
  - Color in the image: light green (5AABJ008)
  - The other seven standard colors are available.

- **Car Floor**: PVC Tiles with 2-mm Thickness
  - Color in the image: white (L51)
  - The other five standard PVC tiles are available.

- **Car Sill**: Extruded Aluminum

- **Car Operating Board Type**: COB-GS01
  - Stainless Steel with Hairline Finish

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**Color Variation**

- **For Car Ceiling**
  - SAABJ001: White
  - SAABJ002: Ivory
  - SAABJ003: Light Gray

- **For Car Panel**
  - Light Green: SAABJ008
  - Ivory: SAABJ004
  - Ocean Blue: SAABJ009
  - Light Gray: SAABJ005
  - Silver: SAABJ010
  - Beige: SAABJ006
  - Gold: SAABJ011
  - Sakura: SAABJ007

- **For Car Floor**
  - LS1
  - LS2
  - LS3
  - LS4
  - LS5
  - LS6
  - White
  - Light Gray
  - Medium Gray
  - Black
  - Light Brown
  - Brown

*Actual colors may differ from the image.*
Car Design

Design 1

- **Car Ceiling**: CT-GS01
- **Color**: Light Gray (5AABJ003)

- **Car Panel**: Stainless Steel with Hairline Finish
- **Return Panel**: Stainless Steel with Hairline Finish
- **Car Transom**: Stainless Steel with Hairline Finish
- **Car Door**: Stainless Steel with Hairline Finish
- **Car Floor**: PVC Tiles with 2-mm Thickness

- **Car Operating Board**: COB-GS02
- **Ventilation Fan**: With Two Air vents

Design 2

- **Car Ceiling**: CT-GC03
- **Color**: Ivory (5AABJ002)

- **Car Panel**: Steel Sheet with Paint Finish
- **Color**: Gold (5AABJ011)
- **Stainless Steel with Hairline Finish**

- **Return Panel**: Stainless Steel with Hairline Finish
- **Car Transom**: Stainless Steel with Hairline Finish
- **Car Door**: Steel Sheet with Paint Finish
- **Color**: Gold (5AABJ011)
- **Car Floor**: PVC Tiles with 2-mm Thickness
- **Color**: Brown (L56)

- **Car Sill**: Extruded Aluminum
- **Handrail Side**: Stainless Steel with Hairline Titanium-Gold-Finished (CPH-GC04)
- **Rear**: Stainless Steel with Hairline Finish (CPH-GC01)
**Design 3**

- **Car Ceiling**: CT-GC02
  - Ceiling with indirect lighting LED tubes
  - Steel Sheet with Paint Finish
  - Color: Light Gray (5AABJ003)

- **Car Panel**: Stainless Steel with Mirror Finish

- **Return Panel**: Stainless Steel with Mirror Finish

- **Car Transom**: Stainless Steel with Mirror Finish

- **Car Door**: Stainless Steel with Mirror Finish

- **Car Floor**: PVC Tiles with 2-mm Thickness
  - Color: Light Gray (L53)

- **Car Sill**: Extruded Aluminum

- **Car Operating Board**: COB-GC01
  - Stainless Steel with Hairline Finish

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**Design 4**

- **Car Ceiling**: CT-GC02
  - Ceiling with indirect lighting LED tubes
  - Steel Sheet with Paint Finish
  - Color: White (5AABJ001)

- **Car Panel**: Stainless Steel with Etching Finish
  - Pattern: PH-103C

- **Return Panel**: Stainless Steel with Hairline Finish

- **Car Transom**: Stainless Steel with Hairline Finish

- **Car Door**: Stainless Steel with Etching Finish
  - Pattern: PH-103C

- **Car Floor**: PVC Tiles with 2-mm Thickness
  - Color: Medium Gray (L53)

- **Car Sill**: Extruded Aluminum

- **Car Operating Board**: COB-GC02
  - Stainless Steel with Hairline Finish

- **Mirror**: Upper-side Full-width Mirror
### Design 5

<table>
<thead>
<tr>
<th>Component</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Car Ceiling</td>
<td>CT-GC01, Ceiling with indirect lighting LED lamps, Steel Sheet with Paint Finish, Color: Ivory (5AABJ002)</td>
</tr>
<tr>
<td>Car Panel</td>
<td>Stainless Steel, Color: White (5AABJ001) &amp; Ocean Blue (5AABJ009)</td>
</tr>
<tr>
<td>Return Panel</td>
<td>Stainless Steel, Color: Ivory (5AABJ004)</td>
</tr>
<tr>
<td>Car Transom</td>
<td>Stainless Steel, Color: Ocean Blue (5AABJ009)</td>
</tr>
<tr>
<td>Car Door</td>
<td>Stainless Steel, Color: Ocean Blue (5AABJ009)</td>
</tr>
<tr>
<td>Car Floor</td>
<td>PVC Tiles with 2-mm Thickness, Color: Light Brown (L55)</td>
</tr>
<tr>
<td>Car Sill</td>
<td>Extruded Aluminum</td>
</tr>
<tr>
<td>Car Operating Board</td>
<td>Stainless Steel, Color: White (5AABJ001)</td>
</tr>
</tbody>
</table>

### Design 6

<table>
<thead>
<tr>
<th>Component</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Car Ceiling</td>
<td>CT-GC01 with ventilation fans, Ceiling with indirect lighting LED lamps, Steel Sheet with Paint Finish, Color: White (5AABJ001)</td>
</tr>
<tr>
<td>Car Panel</td>
<td>Stainless Steel, Pattern: PH-313</td>
</tr>
<tr>
<td>Return Panel</td>
<td>Stainless Steel, Color: Ocean Blue (5AABJ009)</td>
</tr>
<tr>
<td>Car Transom</td>
<td>Stainless Steel, Color: Black (L54)</td>
</tr>
<tr>
<td>Car Door</td>
<td>Stainless Steel, Color: Ocean Blue (5AABJ009)</td>
</tr>
<tr>
<td>Car Floor</td>
<td>PVC Tiles with 2-mm Thickness, Color: Light Brown (L55)</td>
</tr>
<tr>
<td>Car Sill</td>
<td>Extruded Aluminum</td>
</tr>
<tr>
<td>Car Operating Board</td>
<td>Stainless Steel, Color: Ivory (5AABJ004)</td>
</tr>
<tr>
<td>Handrail</td>
<td>Stainless Steel Plate with Hairline Finish (CPH-GC02)</td>
</tr>
<tr>
<td>Mirror</td>
<td>Full-Height Mirror Panel flush with Car Panel</td>
</tr>
</tbody>
</table>
Color and Pattern Variations

For Car Ceiling;
Paint Finish (Flat finish)

<table>
<thead>
<tr>
<th>5AABJ001</th>
<th>5AABJ002</th>
<th>5AABJ003</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>Ivory</td>
<td>Light Gray</td>
</tr>
</tbody>
</table>

For Car Panel, Return Panel, Car Door, Car Transom, Jamb, Landing Door and Landing Transom;
Etching Patterns

<table>
<thead>
<tr>
<th>PH-103C</th>
<th>PH-112B</th>
<th>PH-113A</th>
</tr>
</thead>
<tbody>
<tr>
<td>PH-206</td>
<td>PH-130</td>
<td>PH-319</td>
</tr>
</tbody>
</table>

| PH-649  | PH-703  | PH-801  |

For Car Panel, car Door, Landing Door and Landing Transom;
Etching Patterns

<table>
<thead>
<tr>
<th>5AABJ004</th>
<th>5AABJ005</th>
<th>5AABJ006</th>
<th>5AABJ007</th>
<th>5AABJ008</th>
<th>5AABJ009</th>
<th>5AABJ010</th>
<th>5AABJ011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ivory</td>
<td>Light Gray</td>
<td>Beige</td>
<td>Sakura</td>
<td>Light Green</td>
<td>Ocean Blue</td>
<td>Silver</td>
<td>Gold</td>
</tr>
</tbody>
</table>

For Car Floor;
PVC Tiles (2-mm Thickness)

<table>
<thead>
<tr>
<th>L51</th>
<th>L52</th>
<th>L53</th>
<th>L54</th>
<th>L55</th>
<th>L56</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>Light Gray</td>
<td>Medium Gray</td>
<td>Black</td>
<td>Light Brown</td>
<td>Brown</td>
</tr>
</tbody>
</table>

Note:
(1) Actual colors may differ from the image. (2) The dimensions of an actual pattern differ from the image. (3) The scale of an actual design differs from the image.
Ceiling Design

CT-GS01
- Lighting: LED Downlights
- Panel: Paint Finish
- Emergency Exit

CT-GC02
- Lighting: Indirect Lighting LED tubes
- Panel: Paint Finish

CT-GC01
- Lighting: Indirect Lighting LED Lamps
- Panel: Paint Finish
- Emergency Exit

CT-GC03
- Lighting: Indirect Lighting LED Downlights
- Panel: Paint Finish

Options

Handrail
Stainless Steel with Hairline Finish

CPH-GS01
Pipe Handrail with curved ends

CPH-GC01
Pipe Handrail with straight ends

CPH-GC02
Flat-plate Handrail with curved ends

CPH-GC03
Titanium-Gold-Finished Pipe Handrail with curved ends

CPH-GC04
Titanium-Gold-Finished Pipe Handrail with straight ends

CPH-GC05
Titanium-Gold-Finished Flat-plate Handrail with curved ends

Mirror

Standard Wall-Mounted Mirror

Upper-side Full-width Mirror

Full-height Mirror Panel flush with Car Panel

Notes:
- 1. Clear Ceiling Height: 2350mm, Top Ceiling Height: 2350mm
- 2. Clear Ceiling Height: 2250mm, Top Ceiling Height: 2400mm
- 4. Two Air vents added when Car Ventilation Fan is applied (Optional Specification)
- 5. When the car interior width is greater than 1650mm, the acrylic ceiling will be divided into four sheets instead of two.

Note: Material for mirror panel is required to be confirmed.
**Entrance Design**

**Standard**

**Entrance with Narrow Jambs**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landing Door</td>
<td>Steel Sheet with Paint Finish Color: Sakura (5AABJ007)</td>
</tr>
<tr>
<td>Jamb</td>
<td>Steel Sheet with Paint Finish Color: Sakura (5AABJ007)</td>
</tr>
<tr>
<td>Sill</td>
<td>Extruded Aluminum</td>
</tr>
<tr>
<td>Hall Indicator</td>
<td>Vertical Indicator Orange Dot-Matrix LEDs</td>
</tr>
<tr>
<td>Faceplate</td>
<td>Stainless Steel with Hairline Finish</td>
</tr>
</tbody>
</table>

**Optional**

**Entrance with Wide Jambs**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landing Door</td>
<td>Stainless Steel with Hairline Finish</td>
</tr>
<tr>
<td>Jamb</td>
<td>Stainless Steel with Hairline Finish</td>
</tr>
<tr>
<td>Sill</td>
<td>Extruded Aluminum</td>
</tr>
<tr>
<td>Hall Lantern</td>
<td>Round Jewel Mounted Hairline-Surface Stainless Steel with Inclined Rims at its Bottom</td>
</tr>
<tr>
<td>Hall Buttons</td>
<td>Tactile Button Incorporated Hairline-Surface Stainless Steel with Inclined Rims at its Top</td>
</tr>
</tbody>
</table>

**Entrance with Wide Jambs and Transom**

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Landing Door</td>
<td>Stainless Steel with Etching Finish Pattern: FH-112B</td>
</tr>
<tr>
<td>Jamb</td>
<td>Stainless Steel with Hairline Finish</td>
</tr>
<tr>
<td>Sill</td>
<td>Extruded Aluminum</td>
</tr>
<tr>
<td>Hall Indicator</td>
<td>Horizontal Indicator Orange Dot-Matrix LEDs</td>
</tr>
<tr>
<td>Faceplate</td>
<td>Stainless Steel with Hairline Finish</td>
</tr>
<tr>
<td>Hall Buttons</td>
<td>Tactile Button Incorporated Hairline-Surface Stainless Steel with Inclined Rims at its Top</td>
</tr>
</tbody>
</table>

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**EN81-70 Requirements**

**Required Heights for Landing Fixtures**

1. The indicator arrows are required to be positioned between 1800mm and 2500mm from the floor level.
2. Maximum height between the floor level and the centerline of the highest button is 1100mm.

**Minimum Car Size and Recommended Entrance Width:**

1. For TYPE 1, the required minimum width of entrance is 800 mm.
2. For TYPE 2, 900-mm width is recommended for the entrance.
3. For TYPE 3, 1100-mm width is recommended for the entrance.
Tactile Button Head: Stainless Steel with Bead Blast Finish

Color of Illumination: Amber

33mm

Note:
1. Car Operating Boards satisfy the requirements of EN81-70.
2. Some floor names and alphabet letters are not applicable for the indication of a destination floor.
3. The incorporation of key switch on the Car Operating board (COB) is Optional.
4. For Center-opening doors; when entering the car; Car Operating Board on the right hand side.
5. For Side-opening doors; Car Operating Board on the closing jamb side.
Hall Fixtures

**Hall Indicator with Hall Buttons**

- **Faceplate**: Stainless Steel with Hairline Finish
- **Indicator**: Orange Dot-Matrix LEDs
- **Button**: Tactile Type

**Standard Hall Indicator with Hall Buttons**

<table>
<thead>
<tr>
<th>Model</th>
<th>Elevator Operation</th>
<th>Faceplate Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-GS01</td>
<td>Simplex</td>
<td>With Inclined Rim at Top End</td>
</tr>
<tr>
<td>IN-GS02</td>
<td>Duplex</td>
<td>With Inclined Rim at Top End</td>
</tr>
</tbody>
</table>

**Optional Hall Indicator with Hall Buttons**

<table>
<thead>
<tr>
<th>Model</th>
<th>Elevator Operation</th>
<th>Faceplate Design</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN-GC01</td>
<td>Simplex</td>
<td>Without Inclined Rim</td>
</tr>
<tr>
<td>IN-GC02</td>
<td>Duplex</td>
<td>Without Inclined Rim</td>
</tr>
</tbody>
</table>

**Hall Indicator**

- **Faceplate**: Stainless Steel with Hairline Finish
- **Elevator Operation**: Simplex Operation, Duplex Operation, and Group Operation
- **Faceplate Design**: Without Inclined Rim

**Hall Lantern**

- **Faceplate**: Stainless Steel with Hairline Finish
- **Elevator Operation**: Simplex Operation, Duplex Operation, and Group Operation
- **Faceplate Design**: Without Inclined Rim

**Hall Button Unit**

- **Faceplate**: Stainless Steel with Hairline Finish
- **Button**: Tactile Type

**Note:**

1. The requirements by EN81-70 are satisfied.
2. The requirements by EN81-70 are not satisfied.
3. Some floor names and alphabet letters are not applicable.
4. The incorporation of key-switch is Optional
5. The hall fixture at the bottom floor has a box behind its faceplate.
### 1. Elevator Operation Control System

<table>
<thead>
<tr>
<th>Control Systems</th>
<th>Details of the Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>For One Elevator: 1-Car Selective Collective Operation (Simplex Collective Operation)</td>
<td>Landing calls in the direction in which the elevator is traveling are served sequentially. After all the landing calls are served, landing calls in the opposite direction will be served. When there are no incoming calls, the elevator stops and stays at the last served floor.</td>
</tr>
<tr>
<td>For Two Elevators in a Bank: 2-Car Selective Collective Operation (Duplex Collective Operation)</td>
<td>Two selective-collective-operation elevators work together in one group. Landing calls are served by either elevator that can respond first. When there are no calls, one will be on standby at the main floor; the other will stay at the last served floor.</td>
</tr>
<tr>
<td>For Two to Eight Elevators in a Bank: Group Control Operation</td>
<td>The operation of more than two elevators in a bank is controlled by a group supervisory system which calculates passenger waiting time in advance based on the accumulated traffic data, such as passenger travel patterns and passenger volume at each floor, etc.</td>
</tr>
</tbody>
</table>

### 2. Functions and Specific-Purpose Operations, etc.

**Passenger-Safety Functions**

- **Alarm Buzzer**: When the emergency button is pressed, the car-top-mounted buzzer will sound an alarm.
- **Rescue Operation to Nearest Floor**: In the event that an elevator stops between floors, a safety circuit will automatically analyze the situation and slowly move the elevator to the nearest available floor.
- **Automatic Releveling**: In the event that an elevator floor isn’t leveled with the landing floor, the Automatic Releveling function will initiate and make the elevator floor flush with the landing floor.
- **Emergency Car Lighting**: In the event of a power failure, a self-charging-battery-equipped emergency lighting system will light up the elevator for passenger safety and relief.
- **Intercom System**: An intercom for 2-way communication is installed in the elevator. It allows 4 remote telephones to communicate with the elevator; one on the car top, one in the pit, one in the machine room and one in the building-system control room.
- **Multi-Beam Sensor**: Multi-beam Sensor emits multiple infrared beams, creating an invisible curtain covering the entire doorway. If any of the beams is interrupted, the closing doors will stop and reopen.
- **Multi-Beam Sensor with Mechanical Safety Edge**: A multiple-beam sensor can be incorporated in mechanical safety edges of elevator doors.
- **Night-Time Self-Checking Operation**: During the night time when the elevator doesn’t receive any car and hall calls, the system will move the elevator and check the mechanical brake conditions automatically.
- **Open Door Warning**: If a passenger tries to forcibly open the doors while the elevator is in operation, the warning device will sound an alarm.
- **Unintended Car Movement Protection (UCMP)**: The Unintended Car Movement Protection system prevents elevator movement from the landing floor, while passengers are entering and getting off the elevator.

**Main Specifications**

- **Capacity**: 450, 630, 800, 1000, 1200, 1275, 1550, 1600, and 2000 kg
- **Speed**: 1.0, 1.5, 1.75, 2.0, 2.5, 3.0, 3.5, 4.0 mps
- **Applications**: Application of 2.5 to 4.0 mps is subject to the satisfaction of the Standard Dimensions table.
- **Number of Served Floors**: 40 Stops or Less
- **Travel Height**: For the speed of 1.0 to 3.0 mps: 140 m or less; For the speed of 3.5 to 4.0 mps: 230 m or less
- **Control Method**: VVVF controlled by distributed 32-bit Microcomputers.
- **Traction Machine**: Gearless Machine with Permanent Magnetic Synchronous Motor
- **Types of Elevator Operation**: 1-Car or 2-Car Selective Collective Operation or Group Control Operation for 3 to 8 Cars in a Bank
- **Door Operation System**: Permanent Magnetic Motor controlled by VVVF
- **Door Opening Type**: 2-Panel Center Opening (The elevators of 450 kg capacity are equipped with 2-panel side opening doors as standard.)

Note: *For application range other than the above, please contact our local office for detail.*
*The above specifications may change without prior notice.*
<table>
<thead>
<tr>
<th>Efficient-Operation Functions</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Anti-Nuisance Function</td>
<td>1) For elevators with three or more landings, when three or more car calls are registered at the same time, or when four or more car calls are registered in an extremely short period of time, the system will automatically cancel the activated car calls. 2) For elevators with four or more landings, when an elevator loaded with 100 kg or less receives four or more car call registrations, the system will cancel all the activated registrations.</td>
</tr>
<tr>
<td>Door Open Time</td>
<td>This function automatically adjusts the door-hold open time (default time) at each floor depending on passengers’ hall- and car-call registration situations.</td>
</tr>
<tr>
<td>Auto Adjustment of Door Open Time</td>
<td>When an elevator does not receive any car- or hall-calls for a certain period of time, the Automatic Return to Main Floor function makes the elevator go to the lobby or a predetermind floor and waits in standby for passengers to board.</td>
</tr>
<tr>
<td>Door Nudging</td>
<td>If the car doors are held open over a given period of time, the Door Nudging function will close them slowly with an audible alarm.</td>
</tr>
<tr>
<td>Auto-Separation after Elevator Failure (for Group Control Operation)</td>
<td>When an elevator under group control operation fails to operate normally, it will be separated from the elevator group so as not to affect the overall group elevator performance.</td>
</tr>
<tr>
<td>Load Bypass</td>
<td>When a traveling car is fully loaded, it will bypass floors where hall calls are registered. Those hall calls will be assigned to an available elevator. For Group Control Operation, Load Bypass is originally furnished.</td>
</tr>
<tr>
<td>Overload Warning</td>
<td>When a car becomes overloaded, the warning alarm will sound. The elevator doors will not close until the overloaded state is resolved.</td>
</tr>
<tr>
<td>Reverse Direction Car-Call Cancellation</td>
<td>In the event that a passenger tries to register a car call that is behind the car's current traveling direction, the elevator system will regard it as a nuisance call and ignore it in order to maintain the elevator service efficiency.</td>
</tr>
<tr>
<td>Wrong Car-Call Register Cancellation</td>
<td>In case a passenger presses the wrong car call button, this mistake can be cancelled by pushing the same button twice.</td>
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</table>

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<thead>
<tr>
<th>Passenger-Comfort Functions</th>
<th>Details</th>
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<tbody>
<tr>
<td>Attendant Operation</td>
<td>By using attendant-operation buttons inside a car operating board's cabinet, authorized personnel can register car calls for in-car passengers. In addition to monitoring incoming hall calls, the attendant decides the car travel direction and operates the car doors with priority service for in-car passengers.</td>
</tr>
<tr>
<td>Automatic Voice Announcement System (VONIC) in English</td>
<td>A computerized voice system provides passengers with timely information about car directions, car arrivals, door opening and closing, and emergencies, etc. All the customer's request, announcements in other languages can be added.</td>
</tr>
<tr>
<td>Car Ventilation Fan</td>
<td>Ventilation inside car fan attached to the ceiling to keep car ventilated well.</td>
</tr>
<tr>
<td>Plasmacluster™ Ion Generating Device (IONFUL)</td>
<td>The first elevator company that installed a Plasmacluster ion generating device in an elevator is Fujitec. The device built in an elevator’s ventilation unit disinfects airborne mold, bacteria, viruses, allergens, and odor molecules as well as creating clean air in the elevator. This increases the comfort of passengers.</td>
</tr>
<tr>
<td>Visual Display on Car Operating Board</td>
<td>Informing on an elevator’s current condition, a visual display on the car operating board will provide passengers with timely text messages such as “OVERLOADED”, “EMER. OPERATION, PLEASE EXIT FROM THE CAR”, etc.</td>
</tr>
<tr>
<td>Visual Display on Landing Fixture</td>
<td>Informing on an elevator’s current condition, a visual display on the landing fixture will provide waiting passengers with timely text messages such as “OVERLOADED”, “EMER. OPERATION”, etc.</td>
</tr>
<tr>
<td>Automatic Fan Control</td>
<td>If an elevator receives no car- and hall-calls within a certain period of time, its ventilation fan will turn off automatically.</td>
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</table>

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<tr>
<th>Energy-Saving Functions</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Electric Power Regenerative Unit</td>
<td>The adoption of electric power regenerative unit instead of conventional heat dissipation resistor allows the traction-machine-produced electricity to be fed back to the building's electrical facilities.</td>
</tr>
</tbody>
</table>

*1: Plasmacluster is a trademark of Sharp Corporation.*
*2: Fujitec.”
### Specification Details

<table>
<thead>
<tr>
<th>Functions and Specific-Purpose Operations, etc.</th>
<th>Details</th>
<th>Standard / Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Battery-Powered Automatic Landing Operation (LANDIC)</strong></td>
<td>In the event of a power failure, a compact battery power source will move the car to the nearest available floor.</td>
<td></td>
</tr>
<tr>
<td><strong>Door Opening Failure Rescue Operation</strong></td>
<td>When an elevator fails to open the doors at a landing floor, it will move to the next available floor and open them.</td>
<td></td>
</tr>
<tr>
<td><strong>Earthquake Rescue Operation (WAVE)</strong></td>
<td>When a seismic sensor has detected a seismic wave (the secondary seismic wave), the elevator(s) will be shifted to rescue operation mode and automatically move to the nearest available floor for passenger evacuation.</td>
<td></td>
</tr>
<tr>
<td><strong>Fire Operation</strong></td>
<td>In the event of a fire, the Fire Operation mode will automatically take an elevator directly to an evacuation floor and immobilize it there.</td>
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<tr>
<td><strong>Firefighter Operation</strong></td>
<td>The Firefighter Operation mode allows firefighters to use an elevator during a fire. Under this mode, the elevator responds only to car call registrations made by firefighters.</td>
<td></td>
</tr>
<tr>
<td><strong>Independent Operation</strong></td>
<td>When Independent Operation is turned on, a designated elevator can operate independently for exclusive use.</td>
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</tr>
<tr>
<td><strong>Standby Power Operation</strong></td>
<td>In the event of a power failure, the elevator(s) will return to an evacuation floor using standby power and will be held there on standby. Note: Standby power system shall be provided and installed by third parties.</td>
<td></td>
</tr>
<tr>
<td><strong>Building-Management-System (BMS) Interface</strong></td>
<td>Through a purpose-built interface, a building management system can receive up-to-date elevator operation data.</td>
<td></td>
</tr>
<tr>
<td><strong>CCTV-Camera Cables</strong></td>
<td>For a CCTV camera, video-signal cables suitable for the hoistway and / or machine room are available.</td>
<td></td>
</tr>
<tr>
<td><strong>Elevator Operation Supervisory Panel</strong></td>
<td>Through an elevator operation supervisory panel, the statuses of elevator operation can be monitored and the elevator operation controlled.</td>
<td></td>
</tr>
<tr>
<td><strong>Elevator Visual Monitoring System (ELVIC)</strong></td>
<td>By monitoring the current statuses of running elevators and giving necessary commands to elevators through desk-top PCs in a specific remote location, ELVIC manages and controls elevator operation. Desk-top PCs shall be provided by the customer.</td>
<td></td>
</tr>
<tr>
<td><strong>In-Car Power Receptacle</strong></td>
<td>A power receptacle can be installed in an elevator. (Maximum allowable wattage: 1 kW)</td>
<td></td>
</tr>
</tbody>
</table>

### Planning

#### 450kg 2-Panel Right-side Opening Door (2SR) (Opposite for 2SL)

**Narrow Jamb**

**Wide Jamb**

#### 630 to 2000kg 2-Panel Center-Opening Door (2CO)

**Narrow Jamb**

**Wide Jamb**

---

The above functions may change without prior notice.
For Standard Specifications; Hole Plan

The Bottom Floor

1-Car Control

2-Car Control

The Other Floors

1-Car Control

2-Car Control

For Optional Specifications; Hole Plan

All Floors

1-Car Control

2-Car Control

EN81-70 requirement

For Standard Specifications; Hole Plan

The Bottom Floor

1-Car Control

2-Car Control

The Other Floors

1-Car Control

2-Car Control

For Optional Specifications; Hole Plan

All Floors

1-Car Control

2-Car Control
Plan for rear counter weight

Counterweight at the rear

<table>
<thead>
<tr>
<th>Capacity (kg)</th>
<th>Opening Type</th>
<th>Car Inside A x B (mm)</th>
<th>Hoistway W x H (mm)</th>
<th>Machine Room Size X x Y (mm)</th>
<th>Pit Depth P (mm)</th>
<th>Machine room reaction (kN)</th>
<th>Pit reaction (kN)</th>
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<tr>
<td>450</td>
<td>2S</td>
<td>100x1200</td>
<td>1400x1800</td>
<td>1800x1600x2000</td>
<td>1000</td>
<td>4100</td>
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<td>1800x1600x2000</td>
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<td>4900</td>
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<td>1600</td>
<td>2S</td>
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<td>1400x1800</td>
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<td>5500</td>
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</table>

Note:
1. The above dimensions may be affected by the selections of elevator specification and the given hoistway size.
2. The above dimensions are based on the Travel of 40 m or less.
3. The above overhead is based on the ceiling design of CT-GS01.
4. The incompliance of the actual hoistway with the above required hoistway size affect the overhead.
5. The above pit depth is based on the provision of PVC tile with 2-mm thickness.
6. Refer to Work by Others for the Acceptable Inclination of Hoistway’s Vertical Centerline.
7. For hoistway, machine room, pit, and overhead, the minimum dimensions are stated above. Tolerance for pit depth and overhead height is + 50 / - 0 mm.
### Plan for side counter weight

#### Counterweight at the side

<table>
<thead>
<tr>
<th>Capacity (kg)</th>
<th>Speed (m/s)</th>
<th>Opening Type</th>
<th>Car Inside A × B (mm)</th>
<th>Opening W × H (mm)</th>
<th>Hoistway X × Y (mm)</th>
<th>Machine Room Size Mx × My × Mh (mm)</th>
<th>Pit Depth P (mm)</th>
<th>Overhead OH (mm)</th>
<th>Pit reaction R1 (kN)</th>
<th>Pit reaction R2 (kN)</th>
<th>Pit reaction R3 (kN)</th>
<th>Pit reaction R4 (kN)</th>
<th>Pit reaction R5 (kN)</th>
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</table>

#### Note:
1. The above dimensions may be affected by the selections of elevator specification and the given hoistway size.
2. The above dimensions are based on the Travel of 40 m or less.
3. The above overhead is based on the ceiling design of CT-GS01.
4. The incompliance of the actual hoistway with the above required hoistway size affect the overhead.
5. The above pit depth is based on the provision of PVC tile with 2-mm thickness.
6. Refer to Work by Others for the Acceptable Inclination of Hoistway’s Vertical Centerline.
7. For hoistway, machine room, pit, and overhead, the minimum dimensions are stated above. Tolerance for pit depth and overhead height is ± 0 / 50 mm.
Power Supply Data

<table>
<thead>
<tr>
<th>Capacity (kW)</th>
<th>Speed (m/s)</th>
<th>Rated Current (A)</th>
<th>Available Maximum Length of Main Power Feeder Line (m)</th>
<th>Main Power Supply</th>
<th>Allowable Maximum Length of Main Power Feeder Line (m)</th>
<th>Heat Generation Rate in Machine Room (W/m²)</th>
<th>Air Ventilation Rate in Machine Room (m³/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>3.0</td>
<td>8</td>
<td>13</td>
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1. Elevator Machine-Room and Hoistway Environment
2. Electric Power Source
3. Acceptable Inclination of Hoistway’s Vertical Centerline
4. Work done by Others

Work by others

1. Elevator Machine-Room and Hoistway Environment

Temperature of Machine Room and Hoistway
1. Acceptable Inclination of Hoistway’s Vertical Centerline
2. Electric Power Source
3. Acceptable Inclination of Hoistway’s Vertical Centerline
4. Work done by Others

Note:
1. The data shown above may vary based on elevator specification arrangement.
2. Gaming w weights shall be weighted and installed based on local elevator code requirements.
3. The data shown above is when power supply is 400Vac, 50Hz.
4. Please contact us for more details.
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In the 1960’s, Fujitec became one of the first Japanese companies in the industry and sought for global development of its business. Since then, we have helped build cities all over the world and continue to develop our business aggressively on a global basis. Fujitec and its customers benefit from close relationships and cooperation among all of the members of Fujitec Global Companies.

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By developing technologies as a specialized manufacturer over the years, every Fujitec base has established an integrated quality management system for each stage of manufacturing, installation and maintenance. This supports Fujitec’s constant pursuit of safety, reliability and comfort.
In Compliance With the Standards of EN81-20 and EN81-50