



Freight Elevator Series GFM-T

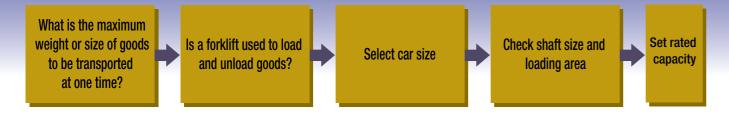


Our Freight Elevators Can Improve Your Goods-Handling Ability



Elevator Selection

1. Rated capacity and car size



| Driving system | Traction type |
|-----------------------|----------------------------|
| Machine room location | Directly over the hoistway |
| Rated capacity *1 | 750kg~6000kg |
| Rated speed *1 | 30m/min.∼60m/min. |
| Maximum travel | 30m |
| Overhead, Pit depth | Poter to pages 7 to 10 |
| Motor capacity | Refer to pages 7 to 10 |

^{*1:} Combinations between capacity and speed are shown in the table on the next page.

2. Operation system

| Operation system | Outline | Remarks | | |
|----------------------------------|---|--------------------------------------|--|--|
| Single automatic for freight 1BF | Responds to individual calls. It cannot | General operation system for typical | | |
| Single automatic for freight 16F | register new calls during operation. | freight uses. | | |
| | Responds in sequence to calls in the | | | |
| Selective collective 2BC | same direction. It allows both | Applicable for handling small goods. | | |
| | directions per call. | | | |

3. Door system

| | Door type | Remarks | | | |
|---------------|-----------------------------|--|--|--|--|
| Horizontal | 2S: 2-panel side opening | | | | |
| sliding doors | 3S: 3-panel side opening | These door types have comparatively fast operation. | | | |
| | 2CO: 4-panel center opening | | | | |
| Vertical | 2U: 2-panel upward opening | These door types make it easy to align same-size entrance width and car width. | | | |
| sliding doors | 3U: 3-panel upward opening | Note: Not applicable with 2BC operation. | | | |

Basic Specifications

GFM-T GFM-T GFM-T GFM-T GFM-T GFM-T GFM-T

The following dimension is shown in Japan code.

| | | | | Conneity | Car inte | rior (mm) | | Entrand | ce (mm) | Speed |
|-------------|--------------------|---------------|------------|----------|-----------|-----------|-----------|---------|---------|----------|
| Loading equ | ipment and scope o | f application | Туре | Capacity | Width | Depth | Door type | Width | Height | • |
| | | | | (kg) | (AA) | (BB) | | (JJ) | (HH) | (m/min.) |
| | | | F-750-2S | 750 | 1300 | 2300 | 2S | 1100 | 2100 | 45/60 |
| | | | F-1000-2S | 1000 | 1700 | 2300 | 28 | 1400 | 2100 | 45/60 |
| | | | F-1500-2S | 1500 | 2200 | 2400 | 28 | 1700 | 2100 | 45/60 |
| | | | F-2000-2S | 2000 | 2200 | 2800 | 28 | 1700 | 2100 | 45/60 |
| | | | F-2500-3S | | | | 3S | 2300 | | |
| | | | F-2500-2U | 2500 | 2500 | 3000 | 2U | 2500 | 2500 | 45/60 |
| | | | F-2500-3U | | | | 3U | 2500 | | |
| | | | F-3000-3S | | | | 3S | 2300 | | |
| | | | F-3000-2U | 3000 | 2500 | 3400 | 2U | 2500 | 2500 | 45/60 |
| | | | F-3000-3U | | | | 3U | 2500 | | |
| | | | F-3500-3S | | 2800 3800 | 3800 | 3S | 2400 | 2500 | 45/60 |
| | | | F-3500-2U | 3500 | | | 2U | 2800 | | |
| | | | F-3500-3U | | | | 3U | 2800 | | |
| | | | F-4000-2CO | 4000 | 3000 | 4500 | 2CO | 2400 | 2500 | 30/45 |
| | | | F-4000-2U | | | | 2U | 3000 | | |
| | | | F-4000-3U | | | | 3U | 3000 | | |
| | | | F-4500-2CO | | 3200 | 4500 | 2CO | 2500 | 2500 | |
| | | | F-4500-2U | 4500 | | | 2U | 3200 | 3000 | 30/45 |
| ₩ | | | F-4500-3U | | | | 3U | 3200 | | |
| | | | F-5000-2CO | | | | 2CO | 2500 | 2800 | |
| | | | F-5000-2U | 5000 | 3200 | 5000 | 2U | 3200 | 3000 | 30/45 |
| | | | F-5000-3U | | | | 3U | 3200 | 0000 | |
| | | | F-6000-2CO | | | | 2CO | 2700 | 2800 | |
| | | | F-6000-2U | 6000 | 3500 | 5800 | 2U | 3500 | 3000 | 30 |
| | | | F-6000-3U | | | | 3U | 3500 | 5555 | |

Note: 1. Freight elevators of less than 2500kg capacity can only be loaded by handtrucks with casters. Goods cannot be loaded by forklift.

Please consult our sales agency if you plan to use a forklift to load and unload goods with our traction-type freight elevators of 2500kg capacity or more.

^{2.} In cases where capacity exceeds 3000kg, please consult our sales agency for details.

^{3. 2}U, 3U door type can not be applied for EN-81-1 or GB code.

Car and Entrance Designs

GFM-T GFM-T GFM-T GFM-T GFM-T GFM-T GFM-T FFM-T GFM-T GFM-T

Signal fixtures such as Car operating panel and Hall position indicator, etc., are shown according to operation system. The applications vary based on the model, so please confirm when ordering.

E-102.....FC-101-25.....Finishes and Designs 2-panel side opening





| Door frame | Narrow Jamb with Painted steel sheet |
|---------------------|--|
| Entrance Doors | Painted steel sheet |
| | Extruded hard aluminum (Capacity of |
| Entrance Sill | 2000kg or less) |
| Littlatice Sill | Steel plate with black paint (Over |
| | 2000kg capacity) |
| Hall buttons | Indicator is incorporated in Hall button |
| Hall buttons | unit. |
| 00 | Painted steel sheet |
| Car Ceiling | Painted steel sneet |
| Car Walls | Painted steel sheet |
| Car Doors | Painted steel sheet |
| Flooring | Checkered steel plate with black paint |
| Car Sill | Same as Entrance Sill |
| Lighting | LEDs |
| Car wall protectors | Stainless steel hairline (Optional) |

^{*}Signal fixtures shown above are for Single automatic operation for freight (1BF). (Standard)

E-202.....FC-101-35.....Finishes and Designs 3-panel side opening





| Door frame | Square Jamb with Painted steel sheet |
|----------------|--|
| | (Optional) |
| Entrance Doors | Painted steel sheet |
| | Extruded hard aluminum (Capacity of |
| F 0:11 | 2000kg or less) |
| Entrance Sill | Steel plate with black paint (Over |
| | 2000kg capacity) |
| Hall buttons | Indicator is incorporated in Hall button |
| naii buttoris | unit. |
| Car Ceiling | Painted steel sheet |
| Car Walls | Painted steel sheet |
| Car Doors | Painted steel sheet |
| Flooring | Checkered steel plate with black paint |
| Car Sill | Same as Entrance Sill |
| Lighting | LEDs |

^{*}Signal fixtures shown above are for Selective collective operation (2BC). (Optional)

Note: Car operating panel is installed in Front return panel.

E-102.....FC-101-2U.....Finishes and Designs 2-panel upward opening





| Narrow Jamb with Painted steel sheet |
|--|
| Painted steel sheet |
| Checkered steel plate with black paint |
| Indicator is incorporated in Hall button |
| unit. |
| |
| Painted steel sheet |
| Painted steel sheet |
| Expanded metal with painted finish |
| Checkered steel plate with black paint |
| LEDs |
| |

^{*}Signal fixtures shown above are for Single automatic operation for freight (1BF). (Standard)

Operation System

GFM-T GFM-T GFM-T GFM-T GFM-T GFM-T GFM-T

Single automatic for freight (1BF): Standard Selective collective (2BC): Optional

| | Signal fixtures | Functions | Remarks |
|-------------------------|------------------------|---|-----------|
| | Direction arrow | Shows direction during operation. | |
| | Position indicator | Shows position of elevator. | |
| Hall wasiking indicator | IN-USE indicator | Shows elevator is in use. | Only 1BF |
| | Call button | Push to register call. Invalid while IN-USE | Only 1BF |
| Hall position indicator | Call Dutton | indicator is illuminated. | Offig 16F |
| | Up call button | Push to go up. | Only 2BC |
| | Down call button | Push to go down. | Only 2BC |
| | Door close button | Close doors promptly for next user. | Only 1BF |
| | Direction arrow | Shows direction during operation. | |
| | Position indicator | Shows position of elevator. | |
| | Intercom | Enables contact with building superintendents. | |
| | Alarm button | Keep pushing in times of emergency to enable | |
| | Alaini button | the elevator operator contact with outside. | |
| | Emergency stop switch | When pressed during an emergency, the | |
| | Lineigency stop switch | elevator immediately stops. | |
| Car operating panel | Car button | Press for the destination floor. | |
| | Door open button | Press to re-open the doors when doors are closing. | |
| | Door close button | Keep pressing until the car starts with doors closed. | Only 2BC |
| | Swing door | There are switches inside for maintenance and | |
| | Swing door | administrative purposes. | |
| | Key hole | Turn the key to the left to open swing door. | |



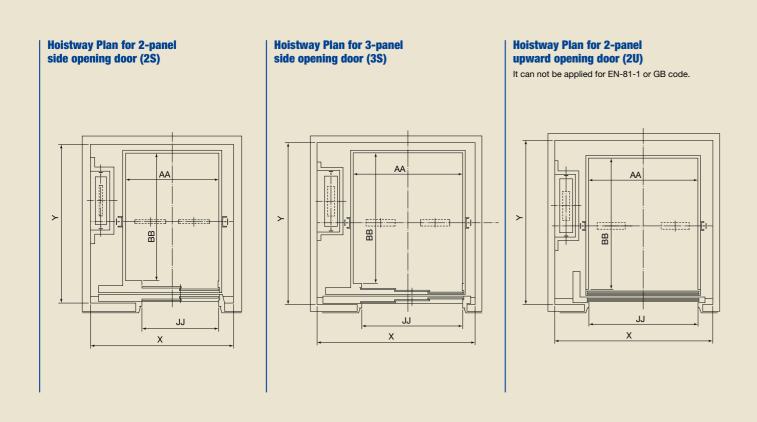


●: Standard O: Optional

| | Item | | | | Descriptions | Application |
|----------------------|--------|------------------------|--|----------------|---|-------------|
| | | Malla and Tr | ansom Panel | | Painted steel sheet | • |
| | | vvalis and ir | ansom Panei | | Stainless steel hairline | 0 |
| | | | Panel Doors (Horizontal Sliding Doors) | | Painted steel sheet | • |
| | | Doors | Pariei Doors (Horizontai Si | iding Doors) | Stainless steel hairline | 0 |
| | | | Steel Mesh Doors (Vertical | Sliding Doors) | Expanded metal with painted finish | • |
| | | Ceiling | | | Painted steel sheet | • |
| | ä | Lighting | | | LEDs | • |
| | Car | Ventilation | | | Diffuser fan | 0 |
| | | Entrance Co | lumns (Only Horizontal S | Sliding Doors) | Stainless steel hairline | • |
| ø. | | Car Wall Pro | tectors | | Stainless steel hairline | 0 |
| Appearance | | Flooring | | | Checkered steel plate with black paint | • |
| eara | | | Capacity of 2000kg or | r less | Extruded hard aluminum | • |
| ď | | Sill | Over 2000kg Capacity | / | Steel plate with black paint | • |
| ٩ | | | Vertical Sliding Doors | | Same unit as car flooring | • |
| | | | Narrow Jamb | | Painted steel sheet | • |
| | | Door Frame | | | Stainless steel hairline | 0 |
| | | Door Frame | Splayed Jamb / Square Jamb | | Painted steel sheet | 0 |
| | e e | | Spiayed Jamb / Squa | ie Jailib | Stainless steel hairline | 0 |
| | ran | Doors | | | Painted steel sheet | • |
| | En | 50013 | | | Stainless steel hairline | 0 |
| | | | Capacity of 2000kg or | r less | Extruded hard aluminum | • |
| | | Sill | Over 2000kg Capacity | | Steel plate with black paint | • |
| | | | Vertical Sliding Doors | | Checkered steel plate with black paint | • |
| als | Car | r Operating nel | Faceplate | | Stainless steel hairline | • |
| Signals | | II Position licator | Faceplate | | Stainless steel hairline | • |
| | 0-4 | f-t D E-l | - (ODE) | | The sensitive mechanical door edge detects the operator or | |
| | Sai | fety Door Edg | e (SDE) | | goods upon contact during door closing. | |
| | | | Horizontal Sliding Doors | Car side | The infrared-light beam (one or two) covers the full width of | |
| res | Cal | fatur Davr (CD) | | Car side | the door as it opens or closes to detect the operator or goods. | 0 |
| atn | Sai | fety Ray (SR) | Vertical Sliding Doors | F | The infrared-light beam is installed in the door frame. | |
| F | | | | Entrance side | The feature is the same as car side. | 0 |
| one | Ov | erload Holdin | g Stops (OLH) | | The elevator buzzer rings to indicate the car is overloaded. | • |
| Operational Features | | | | | The doors are automatically closed after a predetermined time | |
| dc | Aut | tomatic Door | Closing (ADC) (Only 1B | BF) | (std. 1 min.) from full opening. The buzzer will continue to ring | 0 |
| | | | | | from 8 sec. before closure until the doors are fully closed. | |
| | F | hamala al Deservi | Dran Dutter (DICO TD) | (Only 000) | This feature keeps the doors open for a predetermined period | |
| | EXT | tenaea Door-(| Open Button (DKO-TB) | (Only 2BC) | to facilitate loading and unloading of goods. | 0 |
| | | | | | | |

●: Standard ○: Optional

| | Item | Descriptions | Application | | | |
|----------------------|---|---|-------------|--|--|--|
| | Inter Communication System (ITD) | A system which allows communication between passengers | | | | |
| | Inter Communication System (ITP) | inside a car and the building personnel. | 0 | | | |
| | Emergency Car Lighting (ECL-C) | Car lighting which turns on immediately when power fails to | 0 | | | |
| | (Rechargeable Battery Type) | provide a minimum level of lighting within the car. | | | | |
| | Car Fan Shut Off – Automatic (CFO-A) | If there are no calls for a specified period, the car ventilation | 0 | | | |
| | oarran ond on - Automatic (or o-A) | fan will automatically be turned off to conserve energy. | | | | |
| | Car Light Shut Off – Automatic (CLO-A) | If there are no calls for a specified period, the car lighting will | 0 | | | |
| | oar Eight Shut Oil – Automatic (OLO-A) | automatically shut off to conserve energy. | | | | |
| | Hall Out of Service Switch (HOS) | For maintenance or energy-saving measures, a car can be taken out | 0 | | | |
| | Tidii Gut di Gervice Gwiteri (1700) | of service temporarily with a key switch mounted in a specified hall. | | | | |
| | Wiring for BGM Speaker | Necessary wires are provided in the traveling cable. | 0 | | | |
| | Willing for Balvi Opeaker | (Speaker: by owner) | | | | |
| | Mitsubishi Emergency Landing Device (MELD) | Upon power failure, a car equipped with this function | | | | |
| res | | automatically moves and stops at the nearest floor using a | 0 | | | |
| eatr | | rechargeable battery, and the doors open to ensure passenger | | | | |
| 표 | | safety. (Max. allowable floor-to-floor distance is 10 meters.) | | | | |
| Operational Features | Earthquake Emergency Return (EER-P / EER-S) | Upon activation of primary and/or secondary wave seismic | | | | |
| erat | | sensors, all cars stop at the nearest floor, and park there with | 0 | | | |
| do | | the doors open to facilitate safe evacuation of passengers. | | | | |
| | Fire Emergency Return (FER) | Upon activation of a key switch or a building's fire sensors, all | | | | |
| | | calls are canceled, all cars immediately return to a specified | 0 | | | |
| | | evacuation floor and the doors open to ensure safe passenger | | | | |
| | | evacuation. | | | | |
| | Operation by Emergency Power Source – | Upon power failure, the car uses the building's emergency | | | | |
| | Auto/Manual (OEPS) | power supply to move to a specified floor, where the doors | | | | |
| | | then open to facilitate the safe evacuation of passengers. | 0 | | | |
| | | After the car has arrived at the floor, normal operation will | | | | |
| | | be available. | | | | |
| | Supervisory Panel (WP) | A panel installed in a building's supervisory room, etc., which | | | | |
| | | monitors and controls each elevator's status and operations | 0 | | | |
| | | by remote, using indicators and switches which are provided | | | | |
| | | on request. | | | | |



| Machine Room Plan | Hoistway Section |
|---|--|
| Ventilating fan (by owner) Ri Control panel Access door W1200XH2000 Ventilation hole (by owner) X AM | Cinder concrete finish (by owner) HO per Handle Hold Hold Hold Hold Hold Hold Hold Hold |

The following dimension is shown in Japan code.

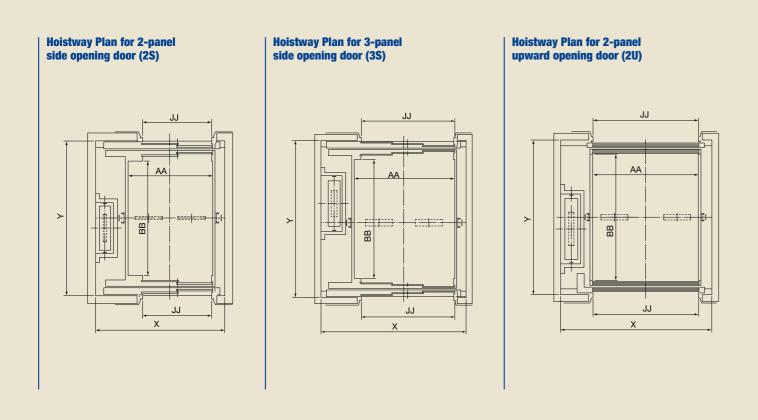
| The following difficult is shown in dapan code. | | | | | | | | | | | | | | |
|---|----------|----------|--------|---------------|-------------|-----------|---------------|-------------|----------|--------------|-------------|------------|-------|-----|
| | Capacity | Speed | Motor | Machine room | Pit depth | | Hoistway (mm) | Min. floor | Overhead | | Reaction Id | ads (kN)*2 | 2 | |
| Туре | (kg) | (m/min.) | (kW)*1 | (mm) | PD | Door type | moistway (mm) | height | OH | Machine room | | Pit | | |
| | (-3) | (, | () | AM×BM | (mm) | | X×Y | (mm) | (mm) | R1 | R2 | R3 | R4 | |
| F-750-2S | 750 | 45 | 7.5 | 2600 × 3950 | 1250 | 2S | 2200 × 2900 | 2800 | 4450 | 44.6 | 36.7 | 70.6 | 55.4 | |
| 1-730-23 | 750 | 60 | 9.5 | 2000 X 3330 | 1550 | 20 | 2200 / 2300 | 2000 | 4650 | 44.0 | 30.7 | 71.6 | 55.4 | |
| F-1000-2S | 1000 | 45 | 7.5 | 3150 × 3950 | 1250 | - 2S | 2600 × 2900 | 2800 | 4450 | 74.6 | 43.1 | 80.4 | 66.2 | |
| F-1000-23 | 1000 | 60 | 9.5 | 3130 × 3930 | 1550 | 23 | 2000 × 2900 | 2000 | 4650 | 74.0 | 43.1 | 84.8 | 73.1 | |
| F-1500-2S | 1500 | 45 | 9.5 | 3600 × 4050 | 1250 | - 2S | 3150 × 3000 | 2800 | 4450 | 101 | 52.0 | 119.6 | 82.4 | |
| F-1300-23 | 1300 | 60 | 13 | 3000 × 4030 | 1550 | 23 | 3130 × 3000 | 2000 | 4650 | 101 | 53.9 | 129.4 | 88.3 | |
| F-2000-2S | 2000 | 45 | 13 | 3600 × 4250 | 1250 | 28 | 3150 × 3400 | 2800 | 4450 | 121.6 | 63.7 | 139.2 | 103 | |
| F-2000-25 | 2000 | 60 | 18.5 | 3000 × 4230 | 1550 | 23 | 3150 × 3400 | 2000 | 4650 | | | 150 | 109.8 | |
| F-2500-3S | | 45 | 18.5 | 4000 × 4400 | 1250 | 38 | 2600 × 2700 | 3300 | 4850 | 148.1 | 81.4 | 192.2 | 144.2 | |
| F-2000-38 | | 60 | 22 | | 1550 | 38 | 3600 × 3700 | | 5050 | 146.1 | | 206 | 154 | |
| F 0500 011+4 | 0500 | 45 | 18.5 | | 1250 | 011 | 3600 × 3700 | 4500 | 4850 | 455.0 | 80.4 | 192.2 | 144.2 | |
| F-2500-2U*4 | 2500 | 60 | 22 | 4000 × 4400 | 1550 | 2U | | 4300 | 5050 | 155.9 | | 206 | 154 | |
| F 0500 011+4 | | 45 | 18.5 | 4000 > 4 4400 | 1250 | | | 2050 | 4850 | 455.0 | | 192.2 | 144.2 | |
| F-2500-3U*4 | | | 60 | 22 | 4000 × 4400 | 1550 | 3U | 3600 × 3700 | 3950 | 5050 | 155.9 | 80.4 | 206 | 154 |
| F 0000 00 | | 45 | 18.5 | 4400 > 4000 | 1250 | 00 | 3750 × 4100 | 3300 | 4850 | 166.7 | 92.2 | 208 | 154 | |
| F-3000-3S | | 60 | 26 | 4100 × 4800 | 1800 | 3S 0 | | | 5050 | | | 223 | 165 | |
| F 0000 01::: | | 45 | 18.5 | 4400 \ 4 4000 | 1250 | 011 | 0750 \ / //55 | 4500 | 4850 | 4745 | 00.0 | 208 | 154 | |
| F-3000-2U*4 | 3000 | 60 | 26 | 4100 × 4800 | 1800 | 2U | 3750 × 4100 | 4500 | 5050 | 174.5 | 92.2 | 223 | 165 | |
| | | 45 | 18.5 | | 1250 | | | | 4850 | | | 208 | 154 | |
| F-3000-3U*4 | | 60 | 26 | 4100 × 4800 | 1800 | 3U | 3750 X 4100 | 3950 | 5050 | 174.5 | 92.2 | 223 | 165 | |

^{*1:} Since required motor power varies according to the specifications, such as elevator cage weight, etc., please consult our sales agency for details.

^{*2:} Since reaction load varies according to the specifications, please consult our sales agency for details.

^{*3:} In cases where capacity exceeds 3000kg, please consult our sales agency for details.

^{*4: 2}U, 3U door type can not be applied for EN-81-1 or GB code.



Hoistway Section Ventilating fan (by owner) Ventilating fan (by owner) Page 1 Access door W1200×19200 Wertilation hole (by owner) AM AM Page 1 2-panel upward opening door 3-panel side opening door 2-panel side opening door 2-panel side opening door 3-panel side opening door 2-panel side opening door 2-panel side opening door

The following dimension is shown in Japan code.

| | | | | | | | | e ioliowi | ng unne | TIOIOII K | SSIIOWII | ι ιιι σαρε | ın coae. |
|-------------|---------------|-------------------|-----------------|--------------|----------------------------|-----------|---------------|-----------|------------------------|--------------|----------|------------|----------|
| Туре | Capacity (kg) | Speed (m/min.) | Motor (kW)*1 | Machine room | Pit depth PD Do (mm) | Door type | Hoistway (mm) | height | Overhead OH (mm) | | | | |
| | | | | (mm) | | | | | | Machine room | | Pit | |
| | (3/ | , | | AM×BM | | | X×Y | (mm) | | R1 | R2 | R3 | R4 |
| F-750-2S | 750 | 45 | 7.5 | 2600 × 3950 | 1250 | 2S | 2200 × 3110 | 2800 | 4450 | 50.5 | 41.5 | 77.4 | 64.7 |
| 1-730-23 | 750 | 60 | 9.5 | 2000 X 0000 | 1550 | 20 | 2200 / 3110 | 2000 | 4650 | 30.5 | 41.5 | 78.5 | 69.6 |
| F-1000-2S | 1000 | 45 | 7.5 | 3150 × 3950 | 1250 | - 2S | 2600 × 3110 | 2800 | 4450 | 83.4 | 48 | 96.1 | 75.5 |
| | | 60 | 9.5 | | 1550 | | | | 4650 | | | 104 | 80.4 |
| F-1500-2S | 1500 | 45 | 9.5 | 3600 × 4050 | 1250 | - 2S | 3150 × 3210 | 2800 | 4450 | 112.8 | 59.8 | 127.4 | 98 |
| | | 60 | 13 | | 1550 | | | | 4650 | | | 137.2 | 106.8 |
| F-2000-2\$ | 2000 | 45 | 13 | 3600 × 4250 | 1250 | - 2S | 3150 × 3610 | 2800 | 4450 | 135.3 | 69.6 | 151 | 116.7 |
| | | 60 | 18.5 | | 1550 | | | | 4650 | | | 162.8 | 125.5 |
| F-2500-3S | | 45 | 18.5 | 4000 × 4400 | 1250 | - 3S | 3600 × 3970 | 3300 | 4850 | 163.8 | 84.3 | 205 | 157 |
| | | 60 | 22 | | 1550 | | | | 5050 | | | 219 | 168 |
| F-2500-2U*4 | 2500 | 45 | 18.5 | 4000 × 4400 | 1250 | - 2U | 3600 × 3680 | 4500 | 4850 | 166.7 | 89.3 | 205 | 157 |
| | | 60 | 22 | 4000 🔨 4400 | 1550 | | | | 5050 | | | 219 | 168 |
| F-2500-3U*4 | | 45 | 18.5 | 4000 × 4400 | 1250 | - 3U | 3600 × 4000 | 3950 | 4850 | 166.7 | 89.3 | 205 | 157 |
| | | 60 | 22 | 4000 🔨 4400 | 1550 | | | | 5050 | | | 219 | 168 |
| F-3000-3S | | 45 | 18.5 | 4100 × 4800 | 1250 | - 3S | 3750 × 4370 | 3300 | 4850 | - 201 | 106.9 | 217.8 | 182.4 |
| | | 60 | 26 | 4100 ^ 4000 | 1800 | | | | 5050 | | | 233 | 195 |
| F-3000-2U*4 | 3000 | 45 | 18.5 | 4100 × 4800 | 1250 | - 2U | 3750 × 4080 | 4500 | 4850 | 206.9 | 110.8 | 217.8 | 162.8 |
| | | 60 | 26 | 4100 ^ 4000 | 1800 | | | | 5050 | | | 233 | 174 |
| F-3000-3U*4 | | 45 | 18.5 | 4100 × 4800 | 1250 | - 3U | 3750 X 4400 | 3950 | 4850 | 206.9 | 110.8 | 217.8 | 162.8 |
| r-3000-30"* | | 60 | 26 | 4100 ^ 4000 | 1800 | 30 | 373U A 44UU | | 5050 | | | 233 | 174 |

^{*1:} Since required motor power varies according to the specifications, such as elevator cage weight, etc., please consult our sales agency for details.

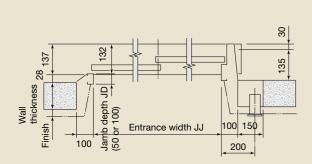
^{*2:} Since reaction load varies according to the specifications, please consult our sales agency for details.

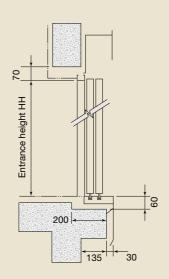
^{*3:} In cases where capacity exceeds 3000kg, please consult our sales agency for details.

^{*4: 2}U, 3U door type can not be applied for EN-81-1 or GB code.

2-panel side opening door

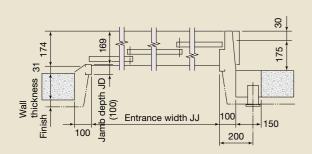
(2S)

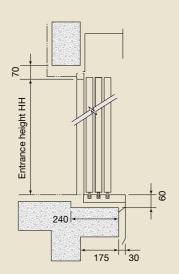


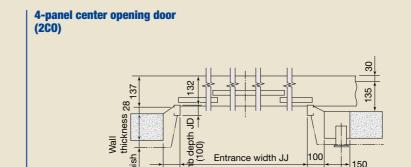


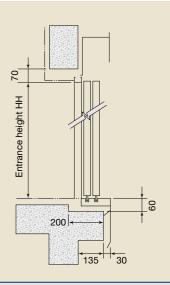
3-panel side opening door

(3S)



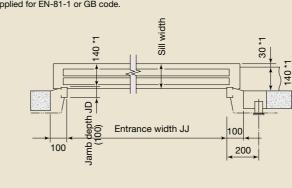




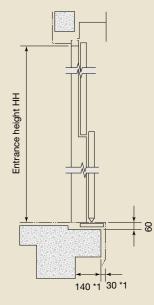


2-panel upward opening door (2U)

It can not be applied for EN-81-1 or GB code.

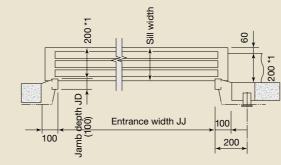


200

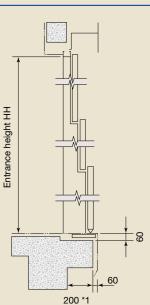


3-panel upward opening door (3U)

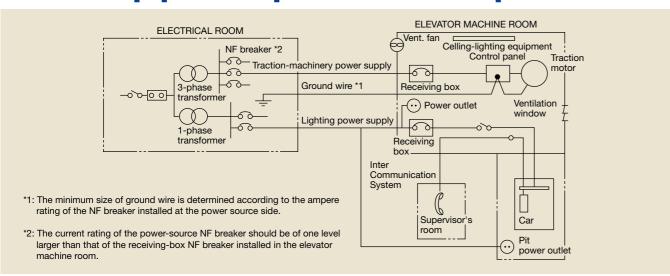
It can not be applied for EN-81-1 or GB code.



*1: Since dimensions for vertical sliding doors vary according to the entrance width, entrance height and floor height, please consult our sales agency for details.



Electrical Equipment Required for Elevator Operation



Traction-Machinery Power Supply

It is necessary to install power-supply equipment of sufficient capacity to ensure the elevators accelerating smoothly and landing accurately. The power supply should be kept within a voltage-fluctuation range of +5 ~ -10%, and a voltage-imbalance factor of 5%. When selecting protective breakers on the power-supply side, be guided by voltage ratings of the no-fuse breakers supplied with the elevators.

Power Supply for Lighting

Lighting for the elevator cars and indicators should, where possible, be supplied via a separate circuit that will not be affected by power failures elsewhere.

Ventilation Equipment

A machine-room ventilating fan of a capacity to keep the room below 40°C is required. A ventilation window should also be installed opposite the ventilation fan.

Inter Communication System (where necessary)

This is essential for establishing communication between elevator operator or passengers and outside in case of emergency. The master station transceiver is usually in a location readily accessible to the supervisor, in the central supervisor's room or elevator lobby. The wiring work between the master station and the elevator machine room is not included in the elevator contract. To facilitate piping and wiring, it is desirable to decide on the position of the master station at the earliest stage of building design.

Lighting Equipment

The machine room should be fitted with good lighting for maintenance work. The light switch should be positioned close to the machine-room entrance.

Inspection Power Outlets

These should be installed in the machine room and pit for use during inspections and maintenance.

Power Feeder Data

| Capacity (kg) | Speed (m/min.) | Motor (kW) | Power Feeder Data | | | | | | | | | |
|------------------|-------------------|---------------|-------------------|----------------|------------------------|---------|-----------------|------------------------|-------------------|----------|--|--|
| | | | Po | wer supply (20 | 0V) | Pow | er supply (400) | Power | Heat | | | |
| | | | Current | | Receiving | Current | | Receiving | supply | emission | | |
| | | | FLU (A) | FLAcc (A) | box NF- breaker (A) | FLU (A) | FLAcc (A) | box NF- breaker (A) | capacity (kVA) | (W) | | |
| 750 | 45 | 7.5 | 30 | 69 | 50 | 15 | 35 | 30 | 7 | 1000 | | |
| | 60 | 9.5 | 38 | 89 | 60 | 19 | 45 | 30 | 8 | 1350 | | |
| 1000 | 45 | 7.5 | 32 | 64 | 50 | 16 | 32 | 30 | 7 | 1350 | | |
| | 60 | 9.5 | 41 | 84 | 75 | 21 | 42 | 40 | 9 | 1750 | | |
| 1500 | 45 | 9.5 | 45 | 87 | 75 | 23 | 44 | 40 | 10 | 2000 | | |
| | 60 | 13 | 57 | 114 | 100 | 29 | 57 | 50 | 12 | 2650 | | |
| 2000 | 45 | 13 | 57 | 110 | 100 | 29 | 55 | 50 | 12 | 2650 | | |
| | 60 | 18.5 | 73 | 143 | 125 | 37 | 72 | 60 | 15 | 3500 | | |
| 2500 | 45 | 18.5 | 73 | 147 | 125 | 37 | 74 | 60 | 15 | 3300 | | |
| | 60 | 22 | 93 | 191 | 150 | 47 | 96 | 75 | 19 | 4400 | | |
| 3000 | 45 | 18.5 | 77 | 157 | 125 | 39 | 79 | 60 | 17 | 3950 | | |
| | 60 | 26 | 98 | 205 | 150 | 49 | 103 | 75 | 22 | 5250 | | |

Work Not Included in Elevator Contract

The following items are excluded from our elevator installation work, and are therefore the responsibility of the building owner or general contractor:

- Construction of the elevator machine room with proper beams and slabs, equipped with a lock, complete with illumination, ventilation and waterproofing.
- Access to the elevator machine room sufficient to allow passage of the control panel and traction machine.
- Architectural finishing of the machine room floor, and the walls and floors in the vicinity of the entrance hall after installation has been completed.
- Construction of an illuminated, ventilated and waterproofed elevator hoistway.
- A ladder to the elevator pit.
- •The provision of cutting the necessary openings and joists.
- Separate beams, when the hoistway dimensions markedly exceed the specifications, and intermediate beams when two or more elevators are installed.
- •All other work related to building construction.
- •The machine room power-receiving panel and the electrical wiring for illumination, plus the electrical wiring from the electrical room to the power-receiving panel.
- •The laying of conduits and wiring between the elevator pit and the terminating point for the devices installed outside the hoistway, such as the emergency bell, intercom, monitoring and security devices, etc.
- The power consumed in installation work and test operations.
- All the necessary building materials for grouting in of brackets, bolts, etc.
- The test provision and subsequent alteration as required, and eventual removal of the scaffolding as required by the elevator contractor, and any other protection of the work as may be required during the process.
- The provision of a suitable, locked space for the storage of elevator equipment and tools during elevator installation.
- The security system, such as a card reader, connected to our elevator controller, when supplied by the building owner or general contractor.
- * Work responsibilities in installation and construction shall be determined according to local laws. Please consult our local agents for details.

Elevator Site Requirements

- The temperature of the machine room and elevator hoistway shall be below 40°C.
- The following conditions are required for maintaining elevator performance.
- a. The relative humidity shall be below 90% on a monthly average and below 95% on a daily average.
- b. The machine room and the elevator hoistway shall be finished with mortar or other materials so as to prevent concrete dust.
- Voltage fluctuation shall be within a range of +5% to −10%.

Ordering Information

Please include the following information when ordering or requesting estimates:

- •The desired number of units, speed and loading capacity.
- The number of stops or number of floors to be served.
 The total elevator travel and each floor-to-floor height.
- Operation system.
- •Selected design and size of car.
- Entrance design.
- Signal equipment.
- A sketch of the part of the building where the elevators are to be installed.
- The voltage, number of phases, and frequency of the power source for the motor and lighting.



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

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

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

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

ISO9001/14001 certification

Mitsubishi Electric Building Solutions Corporation Inazawa Building Systems Works has acquired ISO 9001 certification from the International Organization for Standardization based on a review of quality management. The plant has also acquired environmental management system standard ISO 14001 certification.





MITSUBISHI ELECTRIC BUILDING SOLUTIONS CORPORATION

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www.MitsubishiElectric.com/elevator

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

