



"Made in Fujitec"

Fujitec is Creating and Leading the New Global Standard for Elevators.



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

Fujitec's "Global Common Components" are used in the ZEXIA-D 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 supply chain under the concept of "Made in Fujitec."









Excellent Performance

The permanent magnetic synchronous gearless motors, which have been designed and developed by Fujitec, provide the utmost reliability and excellent driving performance. These motors reflect 73 years of accumulated know-how through our technological achievements in elevator manufacturing, which spans from product designing to fabrication.

Reliable Operation

Since all control-related components, ranging from control circuits to inverters, were independently developed by Fujitec, highly reliable elevator operation is established. In the event of an elevator malfunction, the elevator control system assembled with our components immediately detects the malfunction and maintains efficient and stable operation.

Universal Design

Under our universal designs, aesthetically refined buttons, displays, etc. on elevator operating fixtures are highly visible. Passengers will have a superb and comfortable riding experience.

Styles

Various decoration styles for the elevator interior and landing floors are offered by Fujitec. Customers can select the most suitable decorative materials for car panels, car ceilings, car floorings, car operating boards, and landing fixtures.





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Excellent Performance

Reliable Operation

Gearless Traction Machine with Permanent Magnetic Synchronous Motor

The gearless traction machines with a permanent magnet 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.

A Small Machine Results in Space Saving

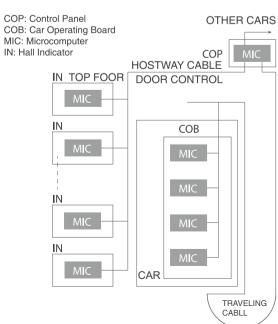
The machine room space required by our ZEXIA-D elevators is 60 % smaller than that of conventional elevators. This remarkable feature results in a reduction of building construction costs and increases usable space in the building.

Ultra-Slim Door Operator with Permanent Magnetic Synchronous Motor

Fujitec's new door operators have adopted a permanent magnetic synchronous motor which doesn't have any gears for door speed control. The use of this motor reduces the size of a door operator and achieves smooth and precise door operation.

These new door operators consume approximately 35 % less power than conventional ones.

Distributed Control System



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





A 32-bit data bus provides high-speed and highprecision data transmission of input-output command signals between each microprocessor located in control panels, hall-call / car-call buttons hall indicators and hall lanterns.

High-speed data transfer with multiple protocols enables large-scale data processing at ten times the normal speed. This also improves the ability to monitor elevator running speed, landing precision and operating reliability as well as input-output command signals of car operating fixtures and operation indicators.

The bus system is employed for data transmission between microcomputers located in every hall-call fixture, car operating board, and control panel. This bus system has strong protection against signal interference and has system-extending capability.





Impact Resistant Door System

The impact resistance of the landing door system is further strengthened, and the risk of falling into the shaft caused by the impact of the landing door system is effectively prevented, further ensuring the safety of elevator related personnel.

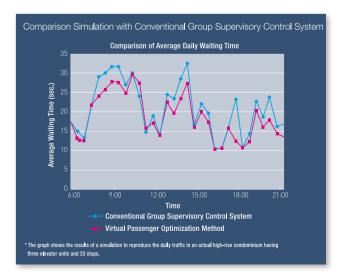
FLEX-NX series -Elevator Group Supervisory Control System-

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. This comprehensive analysis reflects whole building traffic conditions for efficient elevator operation control as well as reducing daily passenger waiting time by up to 10 %.

Unintended Car Moveme

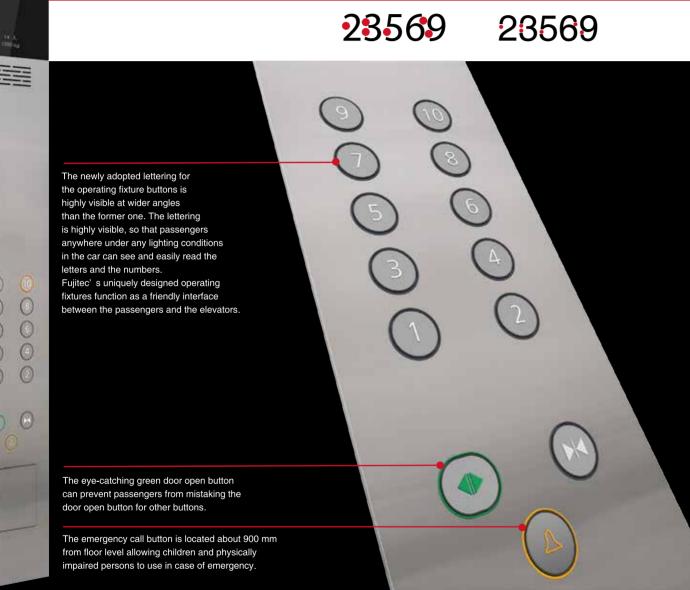
Unintended Car Movement Protection(UCMP)

A safety- purpose control circuit independent of the elevator operating system detects unintended movement of a car and prevents the car from moving from the floor with its doors open. This fumction increases passenger safety.





Fujitec's new global-standard operating fixtures reflect the latest in Human Engineering technology. Fixture buttons with clearly visible lettering function as the man-machine interface. Passengers can register their destination in a visually intuitive manner.



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.

IONFUL

- Plasmacluster[™]* Ion Generating Device-

(Optional Specification)

Fujitec is the leading elevator company to have installed a Plasmacluster lon generating device in an elevator. This device built in a car's ventilation unit disinfects airborne mold, bacteria, viruses, allergens, and odor molecules as well as creating clean air in the elevator which enhances passenger comfort.

Multi-Beam Sensor

Multi-beam Sensor emits multiple infrared beams, creating an invisible curtain covering the 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.

LED Down lights on Car Ceiling

For car ceiling lighting, Fujitec adopts LED downlights, which are long-lasting and energy-efficient. This adoption contributes to the protection of the environment.

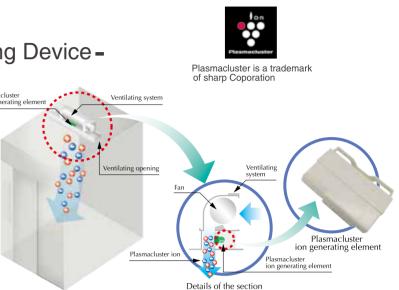
	Filament Light Bulb	LED Light Bulb	Improvement Results
Lifetime	approx. 1,500 hours	approx. 20,000 hours	approx. 13 times
Wattage	90 W	9W	1/10 (one-tenth)

VONIC (Automatic Voice Announcement System)

(Optional Specification)

A computerized voice system (English) provides passengers with timely information about car directions, car arrivals, door opening and closing, and emergencies, etc.

[At the customer's request, announcements in other languages can be added.]







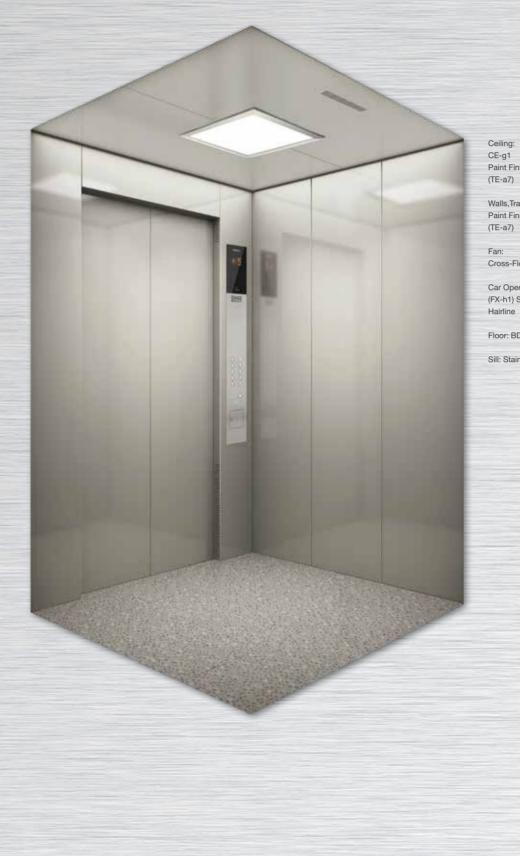






STYLES

Standard Car Design





Ceiling: CE-g1 Paint Finished Steel Sheet

Walls, Transom & Door: Paint Finished Steel Sheet

Cross-Flow Fan

Car Operating Board: (FX-h1) Stainless Steel with Hairline

Floor: BD-b2

Sill: Stainless Steel



BD-b1





BD-b4













Ceiling: (CE-e4)	Stainless Steel with Hairline Finish (Frame) Stainless Steel with Mirror Finish (Central)
Walls, Transom & Door:	Stainless Steel with Hairline Finish
Fan:	Cross-Flow Fan
COB:	FX-k11
Floor:	Designed PVC (BD-C1)

Designed PVC (BD-0 Stainless Steel Sill:

Optional Car Design



Ceiling:	Paint Finished Steel Sheet (TE-f1)
(CE-e2)	
Walls, Transom & Door:	Stainless Steel with Hairline Finish
Mirror:	Stainless Steel with Mirror Finish
Fan:	Cross-Flow Fan
Handrail:	HR-a1
WCOB:	FX-g31
Floor:	Designed PVC (BD-C1)
Sill:	Stainless Steel

Optional Car Design



Ceiling: (CE-c1)	Paint Finished Steel Sheet (TE-f1)
Walls, Transom & Door:	Stainless Steel with Hairline Finish
Fan:	Cross-Flow Fan
Floor:	BD-b5
	Stainless Steel



Ceiling:	Stainless Steel with Hairline Finish (Frame)
(CE-e4)	Stainless Steel with Mirror Finish (Central)
Walls: (CR-f2)	
Side Panel:	Steel Panel with Wooden Decorative Plate(Sides) Stainless Steel with Mirror Finish(Centre)
Rear Panel:	Steel Panel with Wooden Decorative Plate(Sides) Patterned Glass + Light Strip (Centre)
Front Panel, Transom :	Stainless Steel with Hairline Finish
Fan:	Cross-Flow Fan
Floor:	Designed PVC (BD-C2)
Sill:	Stainless Steel
Kick Plate:	Stainless Steel with Sandblast Finish
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and the second se	



Ceiling:	
(CE-g5)	Stainless Steel with Mirror Finish
Walls(CR-f1):	
Side & Rear Panels:	Steel Plate with Laminated Sheet(TE-g1
Wall's Center Panels:	Stainless Steel with Mirror Finish
Front Panel, Transom:	Stainless Steel with Sandblast Finish
Door:	Stainless Steel with Sandblast Finish
Fan:	Cross-Flow Fan
Floor:	Designed PVC (BD-b8)
Sill:	Stainless Steel
Kick Plate:	Stainless Steel with Sandblast Finish

Steel Panel with Wooden Decorative Plate



Ceiling:	
(CE-e2)	Stainless Steel with Mirror Finish
Walls(CR-f1):	
Side & Rear Panels:	Steel Plate with Laminated Sheet(TE-g2)
Wall's Center Panels:	Stainless Steel with Mirror Finish
Front Panel, Transom:	Stainless Steel with Sandblast Finish
Door:	Stainless Steel with Sandblast Finish
Fan:	Cross-Flow Fan
Floor:	Designed PVC (BD-b6)
Sill:	Stainless Steel
Kick Plate:	Stainless Steel with Sandblast Finish

Ceiling Design



Color Samples

TE-a7	,	Ceilings, Car Panels, Car Doors, Landing Doors, and Jambs: Paint
TE-b1	l	Note: The colors of TE-f1 and TE-f2 are optional. *Actual colors may differ from the images.
TE-b2	2	
TE-g4	TE-g5	Car Side & Rear Panels: Steel Plate with Laminated Sheet
007	YS-008	Car Panels, Car Doors, and Landing Doors: Stainless Steel with Etching *The dimensions of an actual pattern differ from the images.
026	YS-059	
-b3	BD-b8	Car Floor (Vinyl Tile) *The scale and color of an actual design differs from the images.

Car Operating Boards



FX-h12





Faceplate: Stainless Steel with Hairline Finish Indicator: Orange Dot-Matrix LED Buttons: Push buttons

Faceplate: Stainless Steel with Hairline	Finish
Indicator: Monochrome LCD Screen (7	inch)
Buttons: Push buttons	



10 PERS. 800 kg





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Faceplate: Stainless Steel with Hairline Finish Indicator: Multicolor LCD Screen (7 inch) Buttons: Push buttons

Wall- mounted Type





FX-h41

PURTY

FX-h71



FX-h51



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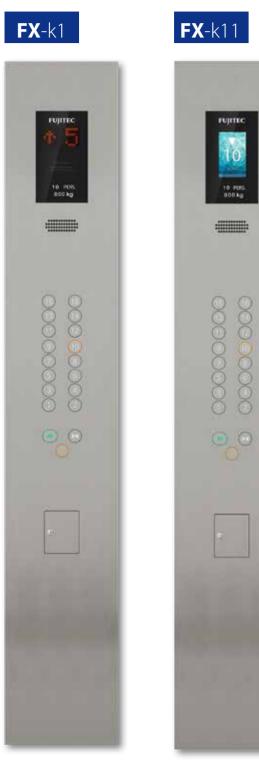




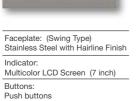


Faceplate: Stainless Steel with Hairline Finish/ Aacrylic Resin Indicator: Orange Dot-Matrix LED Multicolor LCD Screen (4.2 inch) Monochrome LCD (4.1 inch) Buttons: Push buttons

Car Operating Boards



Stainless Steel with Hairline Finish
Indicator: Orange Dot-Matrix LED
Buttons: Push buttons



	40 1000 kg

Buttons: Push buttons



Finish Indicator: Multicolor LCD Screen (10.4 inch) Monochrome LCD Screen (7 inch) Buttons: Push buttons





Standard

Optional

Note: FX-k1, FX-k11, FX-k12, FX-k13 might be not available depend on the car size.

Hall Fixtures



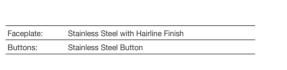


Faceplate: Stainless Steel with Hairline Finish
Indicator: Orange Dot-Matrix LED Multicolor LCD Screen (4.2 inch) Monochrome LCD (4.1 inch)
Buttons:

Push buttons







Button



 CP-C1

 Type:
 Resin Button(White)

 When Pressed:
 Light Emitting Parts: Ring

 Lighting Color:
 Orange



Type: Stainless Steel Button with Braille Dots When Pressed: Light Emitting Parts: Ring Lighting Color: Orange



CP-C3 Type: Resin Button(White) Braille Dots When Pressed: Light Emitting Parts: Ring Lighting Color: Orange

 CP-D1

 Type:
 Stainless Steel Button

 When Pressed:
 Light Emitting Parts: Ring

 Lighting Color:
 Orange

Handrail



HR-a1 Stainless Steel Hairline Plate



HR-b1 & b2 Stainless Steel Hairline Tube/ Stainless Steel Mirror Tube







Landing Design

Group Supervisory Control

Hall Fixtures





Size (mm) L440x W90 x H8 Indicator LED Lighting Color White





FX-k75

Size (mm) L440 x W100 x H14.5

Indicator LCD (4.3 inch) Lighting Color Yellow

FX-k8

Size (mm) L60 x W200 x H46 Lighting Color Yellow



Size (mm) L55 x W422 x H46.5 Lighting Color Yellow



Size (mm) L55 x W422 x H26

Lighting Color Yellow

Note: Hall Button + Hall-Lantern combination without the Hall (Digital/ LCD) Indicator is recommended when 4GSO-8GSO* is operated by the <Immediate Announcement System of a serving Car> function is applied by FLEX-NX (200 & 300).

(* GSO = Group Supervisory Operation)

Systems & Functions



1. Elevator Operation Control System

Control Systems	
For One Elevator:	Landing calls i
1-Car Selective Collective Operation	landing calls a
(Simplex)	incoming calls
For Two Elevators in a Bank:	Two selective-
2-Car Selective Collective Operation	by either eleva
(Duplex)	main floor; the
For Three to Eight Elevators in a Bank (Group Control Operation)	The operation which calculat as passenger

2. Functions and Specific-Purpose Operations, etc.

	unctions and urpose Operations, etc.	Details	●: Standard / ■: Optional
	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.	•
	Five-Way Intercom	An intercom for 5-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.	•
assenger-Safety Functions	Multi-Beam Sensor	A multi-beam sensor emits multiple infrared beams, which will scan at the high speed in the elevator door, forming an infrared beam barrier. If a single beam is interrupted, the sensor will stop the closing doors and reopen them.	•
	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.	•
	Car Door Anti Stripping Device	It can prevent passengers from falling into the shaft when the door is opened in the non unlocking area, and further ensure the safety of elevator passengers.	•
	Impact Resistant Door System	The impact resistance of the landing door system is further strengthened, and the risk of falling into the shaft caused by the impact of the landing door system is effectively prevented, further ensuring the safety of elevator related personnel.	•

23.

The above functions may change without prior notice.

Passenge

Details of the Systems

s in the direction in which the elevator is traveling are served sequentially. After all the are served, landing calls in the opposite direction will be served. When there are no Ils, the elevator stops and stays at the last served floor.

e-collective-operation elevators work together in one group. Landing calls are served vator that can respond first. When there are no calls, one will be on standby at the ne other will stay at the last served floor.

n of more than two elevators in a bank is controlled by a group supervisory system ates passenger waiting time in advance based on the accumulated traffic data, such iger travel patterns and passenger volume at each floor, etc.

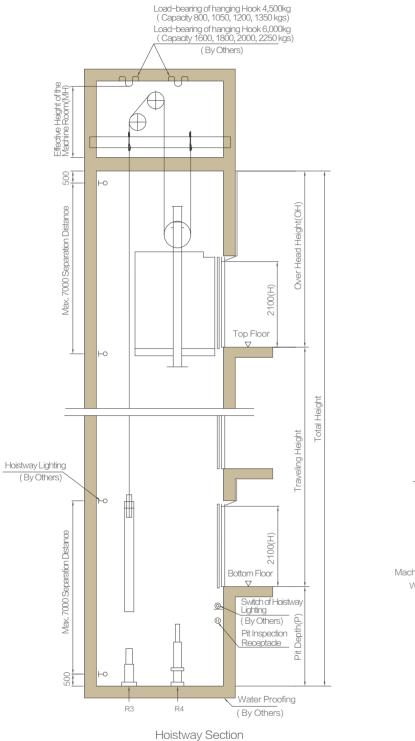
Systems & Functions

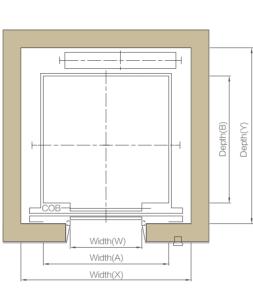
F	Functions and					Functions and	Details		
Specific-P	urpose Operations, etc.	Details	Details •: Standard / •: Optional Specific-Purpose Operations, etc.					: Standard	I / : Optional
	Anti-Nuisance Function	 For elevators with three or more landings, when three or more car calls are registered at the 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. 	•			Automatic Fan and Light Control	If an elevator receives no car- and hall- calls within a certain period of time, its ventilation fan and lights will turn off automatically.	•	
	Anti-Nuisance Function	2) For elevators with five 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.	•		Energy- Saving Functions	Elevator Operation Period Control	The elevator operation period in a day is automatically controlled by a timer mounted on the control panel's computer board in the machine room.		•
	Auto Adjustment of Door Open Time	This function automatically adjusts the door-hold open time (dwell time) at each floor depending on passengers' hall- and car- call registration situations.	•			Parking Operation	When an elevator is shifted to Parking Operation mode, the elevator will move to the pre-assigned floor and park with its doors closed, and car lights and fan turned off.		•
	Automatic Return to Main Floor (for 1-Car & 2-Car & Group Control Operation)	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 predetermined floor and waits in standby for passengers to board.	•			Battery-Powered Automatic Landing Operation (LANDIC)	In the event of a power failure, a compact battery power source will move the car to the nearest available floor.		•
	Door Nudging	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.	•			Door Opening Failure Rescue Operation	When an elevator fails to open the doors at a landing floor, it will move to the next available floor and open them.	•	
Efficient-Operation Functions	Auto-Separation after Elevator Failure (for Group Control Operation)	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.	•			Earthquake Rescue Operation (WAVIC)	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		
	Load Bypass	When a traveling car is fully loaded, it will bypass floors where hall calls are registered. Those hall calls will be assigned to another available elevator.		•	Specific-Purpose		available floor for passenger evacuation.		
	Overload Warning	When a car becomes overloaded, the warning alarm will sound. The elevator doors will not close until the overloaded state is resolved.	•		Operations	Fire Operation	take an elevator directly to an evacuation floor and immobilize it there. (One refuge floor at the terminal floor)	•	
	Reverse-Direction Car-Call Cancellation	In the event that a passenger tries to register a car call that is behind the car's current travelling direction, the elevator system will regard it as a nuisance call and ignore it in order to maintain the elevator service efficiency.	•			Fireman Operation	Under automatic operation, when the Fireman's switch is on, the car will immediately cancel all the calls and run to the refuge floor. The elevator responds to the call in the car only, which is used for special fire fighting operation.		· ·
	Wrong Car-Call Register Cancellation	In case a passenger presses the wrong car call button, this mistake can be cancelled by pushing the same button twice.	•			Independent Operation	When Independent Operation is turned on, a designated elevator can operate independently for exclusive use.	•	
	Door Open Holding Button (COB)	In order to meet the demand of loading and unloading goods, a door opening extension button is installed on the operation panel in the car. Pressing this button can keep the door opening time for 3 minutes.		•		Standby Power Operation	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. * Standby power system shall be provided and installed		
	Arrival Chime (In Car)	When a car arrives at a destination floor, an arrival chime will sound softly.		•			by third parties.		
	Attendant Operation	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,	•			Elevator Visual Monitoring System (ELVIC)	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.)		1
		the attendant decides the car travel direction and operates the car doors with priority service for in-car passengers.			- · · ·	CCTV-Camera Cables (Coaxial type, Network cable	For a CCTV camera, video-signal cables suitable for the hoistway		_
Passenger-	Automatic Voice Announcement System (VONIC)	A computerized voice system provides passengers with timely information about car directions, car arrivals, door opening and closing, and emergencies, etc. At the customer's request, announcements in other languages can be added.		· •	Equipment for Building Security, etc.	and Optical fiber) Elevator Operation Supervisory	and / or machine room are available. Through an elevator operation supervisory panel, the statuses of		-
Comfort Functions	Plasmacluster™ lon Generating Device (IONFUL)	Plasmacluster Ion Generating Device to be built into a car's ventilation unit creates clean air for passenger comfort by disinfecting germs, odor molecules, bacteria, viruses, and allergens in the elevator.		•		Panel (such as watching board, console panel, etc.) Building-Management-System	elevator operation can be monitored and the elevator operation controlled. Through a purpose-built interface, a building management		•
	Visual Display on Car Operating Board	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 THE ELEVATOR." etc,	•		The above functions may	(BMS) Interface	system can receive up-to-date elevator operation data.		•
	Visual Display on Landing Fixture	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.	•						

Planning

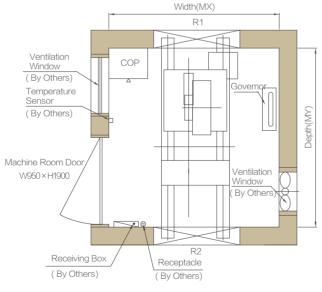
Machine Room Arrangement Of The Hoistway (Wide Car)

Machine Room Arrangement of The Hoistway (Deep Car)





Hoistway Plan



Machine Room Plan

*1. The above dimensions are for reference only. The actual engineering design data shall be used.

*2. The above dimensions are based on RC-structure hoistway

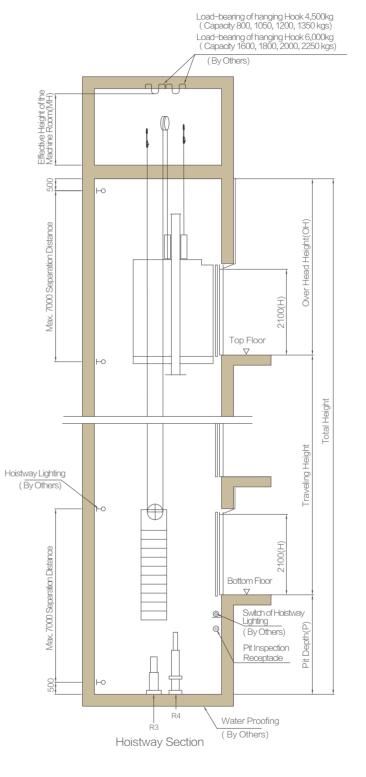
*3. The location of the machine-room door in the above drawing is for reference only.

*4. The location of the machine-room control panel in the above drawing is for reference only.

*5. The above hoistway's internal dimensions are based on the hoistway with waterproof finish.

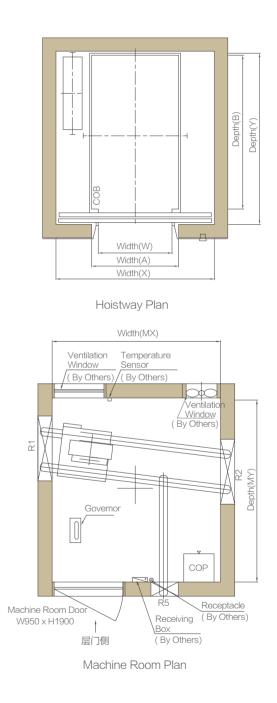
*6. If hoistway's internal dimensions are too large, intermediate beams shall be provided and installed by others based on Fujitec-submitted drawings.

*7. The required thickness of the hoistway's structural walls is 150mm or more (not including the thickness of wall finish).



*1. The above dimensions are for reference only. The actual engineering design data shall be used.

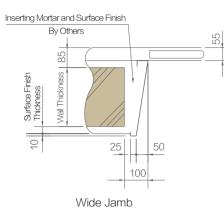
- *2. The above dimensions are based on RC-structure hoistway.
- *3. The location of the machine-room door in the above drawing is for reference only.
- *4. The location of the machine-room control panel in the above drawing is for reference only.
- *5. The above hoistway's internal dimensions are based on the hoistway with waterproof finish.
- *6. If hoistway's internal dimensions are too large, intermediate beams shall be provided and installed by others based on Fujitec-submitted drawings.
- *7. The required thickness of the hoistway's structural walls is 150mm or more (not including the thickness of wall finish).

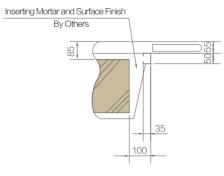


Planning

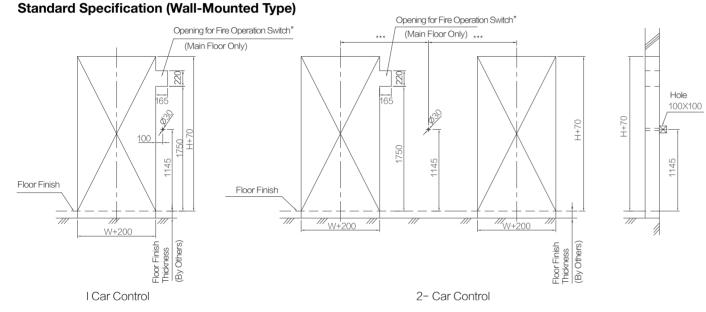
Power Supply Data

800-2000Kg 2-Panel Center Opening(2CO)

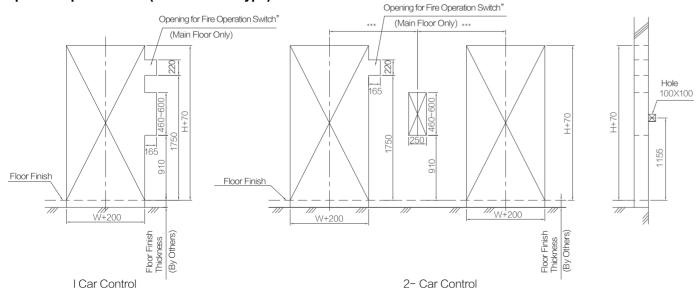




Narrow Jamb



Optional Specification (Inserted Box Type)



Capacity	Speed	Motor Power	Rated Current	Acceleration Current	Equivalent Current	Power Capacity	Open– Circuit Current		Allo	wable Ma	aximum l	.ength of	Main Po	wer Feed	ler Line(m	1)		Heat Generation Rate in Machine	Air Ventilation R in Machine
(kg)	(m/s)	(kW)	(A)	(A)	(A)	(KVA)	(A)	25mm ²	35mm ²	50mm ²	70mm ²	95mm ²	120mm ²	150mm ²	185mm ²	240mm ²	300mm²		Room(m ³ /h)
	1.0	6.0	20	33	5	8	20	324	442	578	784	1013	1421	1706	2001	2431	2559	5050	600
	1.5	8.7	29	50	8	11	32	224	305	400	542	701	983	1180	1384	1682	1771	7550	890
800	1.75	9.6	33	60	10	12	40	194	265	347	470	607	852	1023	1199	1457	1534	8800	1040
000	2.0	11.0	35	61	11	13	40	183	249	327	443	572	803	964	1131	1374	1446	10050	1190
	2.5	14.0	42	86	14	18	50	148	202	265	359	463	651	781	916	1113	1172	12600	1480
	3.0	16.3	50	97	16	20	63	127	174	228	309	399	560	672	789	958	1009	15100	1780
	1.0	7.0	26	40	9	10	32	247	337	441	598	773	1085	1302	1527	1856	1953	6600	780
	1.5	10.9	35	57	11	14	40	181	247	323	438	566	795	954	1119	1360	1432	9900	1170
1050	1.75	12.0	40	62	11	16	40	160	219	287	388	502	705	846	992	1205	1269	11550	1360
1030	2.0	14.0	43	71	12	18	50	147	201	263	357	461	648	777	912	1108	1166	13200	1560
	2.5	18.0	56	97	16	23	63	115	156	205	278	359	504	605	710	863	908	16500	1940
	3.0	21.3	67	125	21	27	80	94	129	169	229	296	416	499	585	711	749	19800	2330
	1.0	8.5	26	41	7	11	32	244	333	436	592	764	1073	1287	1510	1835	1931	7550	890
	1.5	13.6	39	60	10	17	40	164	224	293	397	513	720	864	1014	1232	1297	11350	1340
1200	1.75	14.9	42	66	11	18	50	152	207	272	368	476	668	802	941	1143	1203	13200	1560
1200	2.0	17.0	45	74	12	20	50	144	196	257	348	450	632	758	889	1081	1138	15100	1780
	2.5	21.8	58	99	16	26	63	110	150	197	267	346	485	582	683	830	874	18850	2220
	3.0	25.5	73	130	22	30	80	87	119	156	211	273	383	460	540	656	690	22650	2670
	1.0	9.2	31	44	7	12	32	207	283	370	502	648	910	1092	1281	1557	1639	8500	1000
	1.5	14.7	42	63	10	18	50	152	207	271	367	475	666	800	938	1140	1200	12750	1500
1350	1.75	16.0	46	71	12	19	50	139	190	248	337	435	611	733	860	1045	1100	14850	1750
1550	2.0	18.4	51	85	14	22	63	126	172	225	305	394	554	665	780	947	997	17000	2000
	2.5	23.0	63	106	17	28	80	101	138	181	245	317	445	534	626	761	801	21200	2500
	3.0	27.6	78	149	25	34	80	81	111	145	197	254	357	429	503	611	644	25450	3000
	1.0	10.9	36	56	9	14	40	178	243	319	432	558	783	940	1103	1340	1411	10050	1190
	1.5	17.4	49	82	13	21	50	129	176	231	313	405	568	682	800	972	1023	15100	1780
1600	1.75	19.0	56	94	16	23	63	114	155	203	276	356	500	601	705	856	901	17600	2070
1000	2.0	21.8	64	113	19	26	80	99	136	178	241	312	438	525	616	749	788	20100	2370
	2.5	27.2	75	138	22	33	80	85	116	152	206	266	373	448	525	638	672	25150	2960
	3.0	32.6	90	172	28	40	100	_	96	125	170	220	309	371	435	528	556	30150	3550
	1.0	12.2	40	61	10	15	40	161	219	287	390	503	707	848	995	1209	1273	11350	1340
	1.5	19.5	56	97	15	23	63	113	154	202	273	353	496	595	698	849	893	17000	2000
1800	1.75	21.3	59	98	16	25	63	107	146	192	260	336	472	566	664	807	850	19800	2330
1000	2.0	24.5	65	112	18	29	80	97	132	174	235	304	427	513	601	731	769	22650	2670
	2.5	30.6	84	156	25	37	100	_	103	135	183	237	333	399	469	569	599	28300	3330
	3.0	36.4	95	173	29	44	100	—	91	120	162	210	294	353	415	504	530	33950	4000
	1.0	13.6	44	67	11	17	50	145	197	259	351	453	636	763	895	1088	1145	12600	1480
			62	105	16	26	80	102	139	183	247	320	449	539	632	768	809	18850	2220
2000	1.75	23.7	66	107	17	28	80	96	131	172	233	302	424	508	596	725	763	22000	2590
	2.0	27.2	73	121	20	32	80	86	118	155	210	271	381	457	536	652	686	25150	2960
	2.5	34.0	94	173	27	41	100	_	91	120	163	210	295	355	416	505	532	31400	3700

Notes: 1. The data shown above may vary based on elevator specification arrangement. 2. Earthling wires shall be arranged and installed based on local elevator code requirement.

Note: The above dimensions are for reference only. The actual engineering design data shall be used. The wide jamb for fire rated door is different from above, which should be confirmed job by job.

Relevant Dimensions

Counterweight at the rear

Capacity		Opening	Car Inside A x B	Opening W x H	Hoistway	Machine Room Size MX x MY x MH	Pit Depth P	Overhead OH	Machin reactio	ie room on(kN)		action N)															
(kg)	(m/s)	Туре	(mm)	(mm)	XxY (mm)	(mm)	(mm)	(mm)	R1	R2	R3	R4															
	1.0						1350	4050																			
	1.5						1450	4150		44.5	89.3																
000	1.75		1100 1050	000 0400	4000-4000	4000 4000 0000	1500	4250	75.0			105.0															
800	2.0	200	1400x1350	800x2100	1800×1900	1800x1900x2200	1550	4350	75.6																		
	2.5						1880	4550																			
	3.0				1850×1950	1850x1950x2200	2450	4850	83.9	52.0	103.0	118.7															
	1.0						1350	4050																			
	1.5						1450	4150																			
1050	1.75	200	1600, 1500	000,2100	2000-22100	2000-2100-2200	1500	4250	05.0	50.0	102.6	104.0															
1050	2.0	200	1600x1500	900x2100	2000x2100	2000x2100x2200	1550	4350	85.9	52.3	103.6	124.2															
	2.5						1880	4550	1																		
	3.0				2050x2200	2050x2200x2200	2450	4850	91.8	62.4	117.3	137.9															
	1.0						1350	4050																			
	1.5					2400x2100x2200	1450	4150		60.4	121.5	145.0															
1200	1.75	200	1000, 1500	1100x2100	2400x2100		1500	4250	- 99.4																		
1200	2.0	200	2CO 1800x1500	1100x2100	2400X2100		1550	4350																			
	2.5						1880	4550																			
	3.0				2400x2200	2400x2200x2200	2450	4850	104.6	71.1	135.2	158.8															
	1.0						1350	4050																			
	1.5						1450	4150																			
1350	1.75	200	CO 2000x1500	1100x2100	2450x2150	2450x2150x2200	1500	4250	101.9	66.2	127.2	153.7															
1000	2.0	200		2000/1000	2000/1000	2000/1000	2000/1000	2000/1000	2000/1000	2000/1000	2000/1000	2000/1000	2000/1000	200021000	200021300	2000x 1500	200021300	2000x 1500	2000x 1500	1100/2100	2400/2100	2400/2100/2200	1550	4350	101.5	00.2	127.2
	2.5						1880	4550																			
	3.0						2450	4850	111.5	71.7	140.5	167.0															
	1.0					2450x2450x2400	1350	4050				189.9															
	1.5						1450	4150	- 123.7	79.4	158.5																
1600	1.75	200	2000x1750	1100x2100	2450x2450		1500	4250																			
1000	2.0	200	2000/1100	THOUSE FOO	2400X2400		1550	4350																			
	2.5						1880	4550																			
	3.0						2450	4850	132.2	84.3	170.2	201.6															
	1.0						1350	4050				182.9															
	1.5						1450	4150																			
1800	1.75	200	2100x1800	1100x2100	2550x2500	2550x2500x2400	1500	4250	131.7	84.4	168.8																
1000	2.0	200	2100x1000	1100X2100	233082300	23308230082400	1550	4350	131.7	04.4	100.0																
	2.5						1880	4550																			
	3.0						2450	4850	104.5	89.4	181.0	195.1															
	1.0						1350	4050																			
	1.5						1450	4150	144.4			219.0															
2000	1.75	2CO	2200×1900	1200x2100	2650x2600	2650x2600x2400	1500	4250		85.6	179.8																
	2.0						1550	4350																			
	2.5						1880	4550																			

Counterweight at the side

Capacity (kg)	Speed (m/s)	Opening Type	Car Inside A x B	Opening W x H	Hoistway X x Y	Machine Room Size MX x MY x MH	Pit Depth P	Overhead OH		achine ro eaction(k			action N)
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	R1	R2	R5	R3	R4
	1.0						1350	4050					
	1.5						1450	4150				04.0	106.9
800 -	1.75	200	1100-1000	000-2100	1900x2100	1000-2100-2200	1500	4250	78.0	44.3	10.1		
	2.0	2CO	1100x1800	800x2100	1900x2100	1900x2100x2200	1550	4350	78.0	44.3	10.1	91.2	
	2.5						1880	4550					
	3.0				1950x2150	1950x2150x2200	2450	4850	85.8	51.7	11.3	104.6	120.3
	1.0						1350	4050					
	1.5						1450	4150					
1050	1.75	200	1100x2100	900x2100	2000x2450	2000x2450x2200	1500	4250	88.0	48.1	12.0	102.0	122.6
1000	2.0		1100/2100	500X2100	200072400	2000/2400/2200	1550	4350	00.0	40.1	12.0	102.0	122.6
	2.5						1880	4550					
	3.0				2200x2450	2200x2450x2200	2450	4850	103.3	47.5	13.2	115.4	136.0
	1.0						1350	4050					
	1.5					2400x2450x2200	1450	4150		56.6	13.3	119.1	142.7
1000	1.75		4200-2400	1100-2100	2400x2450		1500	4250	100.2				
1200	2.0	2CO	CO 1300x2100	1100x2100			1550	4350					
	2.5						1880	4550					
	3.0				2450x2450	2450x2450x2200	2450	4850	111.5	60.8	14.6	132.9	156.4
	1.0			1100x2100			1350	4050					150.1
	1.5						1450	4150					
1350	1.75	200	1300x2300		2400x2650	2400x2650x2200	1500	4250	105.9	59.2	13.1	123.6	
1550	2.0	200) 1300x2300			24002203022200	1550	4350		00.2	10.1	120.0	
	2.5						1880	4550					
	3.0				2450x2650	2450x2650x2200	2450	4850	115.8	63.3	14.3	137.4	163.9
	1.0						1350	4050					
	1.5						1450	4150	- 134.2	71.7	20.7	161.6	193.0
1600	1.75	200	1400x2400	1100x2100	2450x2800	2450x2900x2400	1500	4250					
1000	2.0	200	1400/2400	1100/2100	243072000	2450x2800x2400	1550	4350					
	2.5						1880	4550					
	3.0						2450	4850	142.6	75.7	21.9	172.6	204.0
	1.0						1350	4050					
	1.5						1450	4150					
	1.75		1500 0100				1500	4250					
1800	2.0	2CO	1500x2400	1200x2100	2600×2800	2600x2800x2400	1550	4350	142.3	77.0	22.0	172.7	186.8
	2.5						1880	4550					
	3.0						2450	4850	150.8	81.1	23.2	183.7	197.8
	1.0						1350	4050					
	1.5						1450	4150	148.8				219.0
2000	1.75	200	1500x2700	1200x2100	2600×3050	2600x3050x2400	1500	4250		80.8	21.1	179.8	
	2.0			1200/2100	2000/0000	2000/0000/2400	1550	4350			~ 1. 1	113.0	
	2.5						1880	4550					

Notes: 1. The data shown above may vary based on elevator specification arrangement. 2. Refer to the Work Done by Others for the Acceptable Inclination of Hoistway's Vertical Centerline.

Work Done by Others

1. Elevator Machine-Room and Hoistway Environment

Temperature of Machine Room and Hoistway	Temperature of machine room and hoistway shall be kept from 5 °C (41 °F) to 40 °C (104 °F).
	1. When a temperature reaches at 40 °C (104 °F), the relative humidity does not go beyond 50%.
Relative Humidity	2. In the year's most humid month(s), relative humidity shall be kept lower than 90 % and the temperature lower than 25°C (77 °F).
	 Dew condensation prevention measures shall be taken, if there are the possibilities that condensation form inside and on electrical equipment.

2. Electric Power Source

Type of Power Supply	 Three-Phase Power Supply for Elevator Driving Machine Single-Phase Power Supply for Lighting Equipment
Allowable Error of Voltage Value	The allowable error of voltage value is 7 % above and below the rated voltage.

3. Acceptable Inclination of Hoistway's Vertical Centerline

Hoistway's Vertical Length	Centerline's Tilt away from the Plumb Line (unit: mm)
30 meter or less	0 to 25 mm or less
More than 30 meters to 60 meters or less	0 to 35 mm or less
more than 60 m	0 to 50 mm or less

4. Work done by Others

The following items are in the scope of other contractors' work, not covering all items done by them.

For Hoistway

1.	Construct solid-state, fire-proof elevator hoistway.
2.	Cut out landing walls for Fujitec's installation of elevator operating fixtures and elevator equipment.
3.	Do wall finishing work by filling cement between jambs and landing walls.
4.	Do wall finishing work by filling cement between landing fixtures and landing walls.
5.	Give water-proofing and drainage treatment in elevator pit including the installation of pumping equipment.
6.	Install space divider screens between respective elevators in a hoistway pit.
7.	Install steel separator beams at regular vertical intervals in a hoistway.
8.	When hoistway is constructed with bricks, put steel lintels in their walls for Fujitec's installation of rail brackets. The steel lintels must be completely fixed inside the walls. The vertical height of the lintel is required to be 300 mm or more. For details, see the relevant drawings.
9.	When an elevator traveling distance from a floor to the next is more than 11 m, make an opening on the hoistway wall between the floors and install emergency exit doors in the opening for passenger evacuation.
10.	It is advised that there is no human access to the space below the hoistway pit.
11.	When the bottom of a hoistway pit is deeper than the required level, add backfill concrete up to the required level.
12.	Provide and install a pit ladder based on the layout drawings.
13.	Provide and install all of electricity supply apparatuses (inclusive of pipes, leads, wires, etc.) from the building's electricity supply system to the hoistway, landing floors and Fujitec-designated locations.
14.	Provide and install electrical outlets in the hoistway.
45	Install lighting equipment of 30 watt or more at 7-meter intervals inside the hoistway with 0.5-meter clearance at the top and bottom of the hoistway.

15. Install lighting equipment of 30 watt or more at 7-meter intervals inside the hoistway with 0.5-meter clearance at the top and bottom of the hoistway. The lighting intensity is required to be 50 lux or more at the car-top working platform and at the 1-meter high position above the pit bottom.

For Machine Room

FOI WIAC	
1.	Construct solid-state, fire-proof machine room.
2.	Provide and install a power switching / distributing board in th
3.	Install and lay electrical pipes, wires, and leads in the machine controller, machine, and other electrical equipment.
4.	Provide and install all of electricity supply apparatuses (inclusi system to the machine room and Fujitec-designated locations
5.	Install lighting equipment in the machine room. The lighting int
6.	Install air ventilator(s) and/or air conditioner(s) in order to keep
7.	Provide and install electrical outlets in the machine room.
8.	Install fire-proof entrance doors in the machine room.
9.	Take a noise reduction measure, if it is required.
10.	Install smoke detector, if it is required.
11.	Make cutouts and holes in the machine room.
12.	Construct machine room floor of which 1-square-meter area c
13.	Make holes in the walls of a machine room for Fujitec's installa fixed beams.
14.	After the installation of electrical pipes, wires, and leads, etc. o dust-resistant material.
15.	Make an appropriate size of opening on the roof or the sidewa equipment.
16.	Install machine lifting hooks and / or steel beams on the ceiling installation drawings.
17.	Install windows and louvers in order to let in daylight into the r
18.	If a person's entry into the machine room needs a ladder or sta
19.	In case the machine room has two or more floors and a distan Guardrails shall be provided and installed on the upper floor(s)

Others

1.	Ground-fault interrupter and current leakage alarm are required
2.	Lay building's telecommunication lines 500 mm away from the
3.	Remove corroded metal materials from the machine room and
4.	Protect the machine room and the hoistway against hazardous
5.	Prevent dust from accumulating in the hoistway and the maching
6.	Provide a storage room in order to stock elevator parts and ins
7.	Do not place any tools and materials not related to elevators ir

he machine room.

ne room. They shall be extended from the power switching / distributing board to the

sive of pipes, leads, wires, etc.) on various routes from the building's electricity supply is.

ntensity on the machine room's floor is 200 lux or more.

p the temperature of the machine room between 5 °C (41 °F) and 40 °C (104 °F).

can bear the load of 700 kgs.

lation of machine support beams and fill concrete into the gap between the walls and the

on the machine room floor, lay lightweight concrete and finish the floor surface with

vall of a machine room in order for Fujitec to carry in elevator machine and other

ng slabs of a machine room. The required lifting load capability is stated on the relevant

machine room.

tairs, the installation and fixation of it or them is required.

ance between each floor is more than 500 mm, install a ladder or stairs between the floors. (s) for the prevention of a person's fall.

red to be protected against current-harmonic distortion.

e electric feeder lines for elevator system.

d the hoistway.

is gas.

hine room.

stallation materials.

in the hoistway and the machine room.

FUJITEC

35.

Shuttle Elevators Reaching Impossible Travelling Distance

SNOWLAND **SNOWLAND** Travel Distance





Fujitec Global Operations



Ohaio Plant(U.S.A)



Langfang Plant(China)



Korea Plant

MAIN GATE



Taiwan Plant



FUJITEC URUGUAY **FUJITEC ARGENTINA S. A.**

East Asia

FUJITEC (HK) CO., LTD. FUJITEC TAIWAN CO., LTD. FUJITEC KOREA CO., LTD. HUASHENG FUJITEC ELEVATOR CO., LTD. SHANGHAI HUASHENG FUJITEC ESCALATOR CO., LTD. FUJITEC SHANGHAI TECNOLOGIES CO., LTD. FUJITEC SHANGHAI SOURCING CENTER CO., LTD.

Europe & Middle East

FUJITEC UK LTD. FUJITEC SAUDI ARABIA CO., LTD. FUJITEC EGYPT CO., LTD.

Big Wing (Group Headquarters in Japan, Elevator Plant) India Plant



FUJITEC CANADA, INC.

FUJITEC AMERICA, INC.



North & South America

FUJITEC AMERICA..INC. FUJITEC CANADA., INC. FUJITEC VENEZUELA C.A. FUJITEC ARGENTINA S.A. FUJITEC URUGUAY S.A.

Japan

FUJITEC CO.,LTD.



FUJITEC KOREACO., LTD. HUASHENG FUJITEC ELEVATOR CO., LTD. SHANGHAI HUASHEN FUJITEC ESCALATOR CO., LTD. FUJITEC SHANGHAI TECHNOLOGIES CO., LTD. Tokyo FUJITEC CO., LTD. FUJITEC SHANGHAI SOURCING CENTER CO., LTD. FUJITEC (HK) CO., LTD. FUJITEC TAIWAN CO., LTD. FUJITEC VIETNAM CO., LTD.⁺ FUJITEC INC. (PHILIPPINES) FUJITEC (THAILAND)CO., LTD. FUJITEC INDIA PRIVATE LTD. FUJITEC MYANMRA CO., LTD. FUJITEC (MALAYSIA) SDN. BHD. FUJITEC LANKA (PRIVATE) LTD. Kuala Lun FUJITEC SINGAPORE CORPN. LTD. P.T. FUJITEC INDONESIA

South Asia

FUJITEC SINGAPORE CORPN. LTD. FUJITEC INC,(PHILIPPINES)
FUJITEC (MALAYSIA) SDN, BOD.
P.T. FUJITEC INDONESIA
FUJITEC VIETNAM CO., LTD. FUJITEC INDIA PRIVATE LTD.
FUJITEC (THAILAND) CO., LTD.
FUJITEC LANKA (PRIVATE) LTD.
FUJITEC PACIFIC, INC.(GUAM)
FUJITEC MYANMAR CO., LTD.





